PERI INSTITUTE OF TECHNOLOGY

Approved by AICTE, Affiliated to Anna University
Accredited by NAAC | Recognized by UGC with 2(F)

Criteria 1

Curricular Aspects

Key Indicator- 1.2

1.2 Academic Flexibility

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed during the last five years)

IQAC
Committed to Excellence

Sl .No.	Description	Page No.
	ACADEMIC YEAR 2022-2023	
1	**Add on Course on Auto CAD – CIVIL Department**	
	Title and Duration of the course	1-1
	Schedule of the course	2-3
	Course participants name list	4-4
	Course participants attendance sheet	5-5
	Curriculum of the course	6-15
	Assessment of the course	16-18
2	**Add on Course on Introduction to Non Destructive Testing and QA/QC – CIVIL Department**	
	Title and Duration of the course	19-19
	Schedule of the course	20-20
	Course participants name list	21-21
	Course participants attendance sheet	22-22
	Curriculum of the course	23-23
	Assessment of the course	24-31
3	**Add on Course on Data Scienece-CSE Department**	
	Title and Duration of the course	32-32
	Schedule of the course	33-33
	Course participants name list	34-38
	Course participants attendance sheet	39-43
	Curriculum of the course	44-44
	Assessment of the course	45-46
4	**Workshop on Artificial Intelligence and Data Science - CSE Department**	
	Title and Duration of the course	47-47
	Schedule of the course	48-48
	Course participants name list	49-54
	Course participants attendance sheet	55-60
	Assessment of the course	61-61
5	**Workshop on Artificial Intelligence - CSE Department**	
	Title and Duration of the course	62-62
	Schedule of the course	63-63
	Course participants name list	64-69

	Course participants attendance sheet	70-75
	Assessment of the course	76-76
6	**Add on Course on Robotics and its application - ECE Department**	
	Title and Duration of the course	77-77
	Schedule of the course	78-78
	Course participants name list	79-79
	Course participants attendance sheet	80-81
	Curriculum of the course	82-82
	Assessment of the course	83-87
7	**Add on Course on Advanced JAVA Programming – ECE Department**	
	Title and Duration of the course	88-88
	Schedule of the course	89-89
	Course participants name list	90-91
	Course participants attendance sheet	92-93
	Curriculum of the course	94-94
	Assessment of the course	95-98
8	**Add on Course on Ethical Hacking - ECE Department**	
	Title and Duration of the course	99-99
	Schedule of the course	100-100
	Course participants name list	101-101
	Course participants attendance sheet	102-103
	Curriculum of the course	104-104
	Assessment of the course	105-110
9	**Add on Course on Embedded C - EEE Department**	
	Title and Duration of the course	111-111
	Schedule of the course	112-112
	Course participants name list	113-115
	Course participants attendance sheet	116-119
	Curriculum of the course	120-120
	Assessment of the course	121-123
10	**Add on Course on Modeling for Design Engineers - MECHANICAL Department**	
	Title and Duration of the course	124-124
	Schedule of the course	125-125
	Course participants name list	126-126
	Course participants attendance sheet	127-128
	Curriculum of the course	129-129

	Assessment of the course	130-138
11	**Add on Course on Small Unmanned Aerial Vehicle – DroneoS - MECHANICAL Department**	
	Title and Duration of the course	139-139
	Schedule of the course	140-140
	Course participants name list	141-141
	Course participants attendance sheet	142-143
	Curriculum of the course	144-144
	Assessment of the course	145-156
12	**Add on Course on Modeling Practice for Automotive Assemblies - MECHANICAL Department**	
	Title and Duration of the course	157-157
	Schedule of the course	158-158
	Course participants name list	159-159
	Course participants attendance sheet	160-161
	Curriculum of the course	162-162
	Assessment of the course	163-171
ACADEMIC YEAR 2021-2022		
13	**Add on Course on Building Planning Fundamentals - CIVIL Department**	
	Title and Duration of the course	172-172
	Schedule of the course	173-173
	Course participants name list	174-175
	Course participants attendance sheet	176-177
	Curriculum of the course	178-178
	Assessment of the course	179-182
14	**Add on Course on Bootcamp on Build your own Virtual assistant - CSE Department**	
	Title and Duration of the course	183-183
	Schedule of the course	184-184
	Course participants name list	185-186
	Course participants attendance sheet	187-188
	Assessment of the course	189-192
15	**Add on Course on Fullstack Development - CSE Department**	
	Title and Duration of the course	193-193
	Schedule of the course	194-194
	Course participants name list	195-196
	Course participants attendance sheet	197-198

	Assessment of the course	199-199
16	**Add on Course on Cyber Security And Web Designing – ECE Department**	
	Title and Duration of the course	200-200
	Schedule of the course	201-201
	Course participants name list	202-203
	Course participants attendance sheet	204-205
	Curriculum of the course	206-206
	Assessment of the course	207-216
17	**Add on Course on Cloud Computing & Distributed Systems – ECE Department**	
	Title and Duration of the course	217-217
	Schedule of the course	218-218
	Course participants name list	219-219
	Course participants attendance sheet	220-221
	Curriculum of the course	222-222
	Assessment of the course	223-227
18	**Add on Course on Microprocessor and Microcontroller – ECE Department**	
	Title and Duration of the course	228-228
	Schedule of the course	229-229
	Course participants name list	230-231
	Course participants attendance sheet	232-233
	Curriculum of the course	234-234
	Assessment of the course	235-238
19	**Add on Course on Leverging Electric Vehicle Tecnology-EEE Department**	
	Title and Duration of the course	239-239
	Schedule of the course	240-240
	Course participants name list	241-243
	Course participants attendance sheet	244-246
	Curriculum of the course	247-247
	Assessment of the course	248-250
20	**Add on Course on Design Thinking And Electrical Design Development -EEE Department**	
	Title and Duration of the course	251-251
	Schedule of the course	252-252
	Course participants name list	253-255
	Course participants attendance sheet	256-258
	Curriculum of the course	259-259

	Assessment of the course	260-262
21	**Add on Course on Reverse Engineering and GD&T Application- MECHANICAL Department**	
	Title and Duration of the course	263-263
	Schedule of the course	264-264
	Course participants name list	265-268
	Course participants attendance sheet	269-273
	Curriculum of the course	274-274
	Assessment of the course	275-283
ACADEMIC YEAR 2020-2021		
22	**Add on Course on Special Concretes - CIVIL Department**	
	Title and Duration of the course	284-284
	Schedule of the course	285-286
	Course participants name list	287-288
	Course participants attendance sheet	289-290
	Curriculum of the course	291-291
	Assessment of the course	292-297
23	**Add on Course on DOT NET for Beginners - CSE Department**	
	Title and Duration of the course	298-298
	Schedule of the course	299-299
	Course participants name list	300-305
	Course participants attendance sheet	306-311
	Curriculum of the course	312-312
	Assessment of the course	313-314
24	**Workshop on MAT Lab for DSP -ECE Department**	
	Title and Duration of the course	315-315
	Schedule of the course	316-316
	Course participants name list	317-324
	Course participants attendance sheet	325-333
	Curriculum of the course	334-334
	Assessment of the course	335-338
25	**Workshop on Basic of Electrical Wiring - EEE Department**	
	Title and Duration of the course	339-339
	Schedule of the course	340-340
	Course participants name list	341-343
	Course participants attendance sheet	344-346
	Assessment of the course	347-349

26	**Workshop on MAT Lab for Power Electronics – EEE Department**	
	Title and Duration of the course	350-350
	Schedule of the course	351-351
	Course participants name list	352-354
	Course participants attendance sheet	355-357
	Assessment of the course	358-360
27	**Workshop on SolidWorks- MECHANICAL Department**	
	Title and Duration of the course	361-361
	Schedule of the course	362-362
	Course participants name list	363-366
	Course participants attendance sheet	367-371
	Curriculum of the course	372-372
	Assessment of the course	373-375
ACADEMIC YEAR 2019-2020		
28	**Add on Course Estimation and Costing using Excel -CIVIL Department**	
	Title and Duration of the course	376-376
	Schedule of the course	377-377
	Course participants name list	378-378
	Course participants attendance sheet	379-379
	Curriculum of the course	380-380
	Assessment of the course	381-382
29	**Workshop on Planning according to NBC-CIVIL Department**	
	Title and Duration of the course	383-383
	Schedule of the course	384-384
	Course participants name list	385-386
	Course participants attendance sheet	387-387
	Curriculum of the course	388-388
	Assessment of the course	389-392
30	**Workshop on IOT and its applications-CSE Department**	
	Title and Duration of the course	393-393
	Schedule of the course	394-394
	Course participants name list	395-400
	Course participants attendance sheet	401-406
	Curriculum of the course	407-407
	Assessment of the course	408-408
31	**Workshop on Industrial Based Embedded System-ECE Department**	
	Title and Duration of the course	410-410

	Schedule of the course	411-411
	Course participants name list	412-418
	Course participants attendance sheet	419-425
	Curriculum of the course	426-426
	Assessment of the course	427-432
32	**Workshop on PCB Design- ECE Department**	
	Title and Duration of the course	433-433
	Schedule of the course	434-434
	Course participants name list	435-437
	Course participants attendance sheet	438-440
	Curriculum of the course	441-441
	Assessment of the course	442-447
33	**Workshop on Embedded system design and implementation- EEE Department**	
	Title and Duration of the course	448-448
	Schedule of the course	449-449
	Course participants name list	450-452
	Course participants attendance sheet	453-455
	Assessment of the course	456-458
34	**Workshop on 3D – Printing- MECHANICAL Department**	
	Title and Duration of the course	459-459
	Schedule of the course	460-460
	Course participants name list	461-465
	Course participants attendance sheet	466-473
	Curriculum of the course	474-474
	Assessment of the course	475-477
35	**Workshop on AutoCAD- MECHANICAL Department**	
	Title and Duration of the course	478-478
	Schedule of the course	479-479
	Course participants name list	480-480
	Course participants attendance sheet	481-482
	Curriculum of the course	483-483
	Assessment of the course	484-486
ACADEMIC YEAR 2018-2019		
36	**Add on Course on Analysis of Structures using STAAD Pro-CIVIL Department**	
	Title and Duration of the course	487-487
	Schedule of the course	488-488

	Course participants name list	489-493
	Course participants attendance sheet	494-496
	Curriculum of the course	497-497
	Assessment of the course	498-499
37	**Workshop on Building Drawing - CIVIL Department**	
	Title and Duration of the course	500-500
	Schedule of the course	501-502
	Course participants name list	503-504
	Course participants attendance sheet	505-505
	Curriculum of the course	506-506
	Assessment of the course	507-508
38	**Add on Course on Java Programming - CSE Department**	
	Title and Duration of the course	509-509
	Schedule of the course	510-510
	Course participants name list	511-516
	Course participants attendance sheet	517-522
	Curriculum of the course	523-523
	Assessment of the course	524-525
39	**Work shop on Python Programming – CSE Department**	
	Title and Duration of the course	526-526
	Schedule of the course	527-527
	Course participants name list	528-531
	Course participants attendance sheet	532-535
	Curriculum of the course	536-536
	Assessment of the course	537-538
40	**Add on Course on Embedded Building Blocks Using Arudino Hands on for Young-ECE Department**	
	Title and Duration of the course	539-539
	Schedule of the course	540-540
	Course participants name list	541-552
	Course participants attendance sheet	553-562
	Curriculum of the course	563-563
	Assessment of the course	564-571
41	**Python Programming for Power Electronics - EEE Department**	
	Title and Duration of the course	572-572
	Schedule of the course	573-573
	Course participants name list	574-576
	Course participants attendance sheet	577-580
	Curriculum of the course	581-581

	Assessment of the course	582-584
42	**Workshop on CATIA - MECHANICAL Department**	
	Title and Duration of the course	585-585
	Schedule of the course	586-586
	Course participants name list	587-595
	Course participants attendance sheet	596-610
	Curriculum of the course	611-611
	Assessment of the course	612-614

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INSTITUTE OF TECHNOLOGY

28.01.2023

Chennai

From

The HOD-CIVIL,

Peri Institute of Technology

Mannivakkam,

Chennai-48

To

The Principal

PERI Institute of Technology

Chennai

Sir,

Sub: Approval to conduct a program on **CVA-012AutoCAD Course**– Reg

The department of Civil Engineeringis planning to conduct a program titled "**CVA-012AutoCAD Course**" training for Civil Engineering students. Kindly accord permission for conducting the program.

S.No.	Year	Scheduled Date	Time
1	II	04-02-2023 to 06-05-2023	1.15p.m-3.40p.m

Thanking You

Yours Truly

Recommended

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

28/01/23
Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

HOD/CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE-TIME TABLE

AutoCAD Course

S.No	Date	Hours	Topics
1	04-02-2023	6,7,8	**Need for Designing** □ Introduction to CAD/CAM/CAE □ Concept of Designing and Drafting □ Angle of projections □ First angle projection ,Third angle projection ,Orthographic and Isometric views , Quadrants □ Basic Drafting rules Introduction to AutoCAD □ Introduction to Autocad,**COORDINATE SYSTEMS** Absolute co-ordinate system a. Absolute origin b. Cartesian coordinates □ Relative methods □ Relative Rectangular method ,Concept of using @ symbol Syntax □ Relative Polar method □ Syntax □ Angle calculation in four quadrants,**AUTOCAD BASICS**,Workspace,Ribbon bar (RIBBON) □ Command line (CTRL+9/CLI) □ Menu bar □ Function key,□ Units (UN) □ Limits □ Line (L) □ Close (C) □ Undo (U) □ Ray - Line (RAY) □ Xline (XL) □ Horizontal (H) □ Vertical (V) □ Angle (A) □ Bisect (B) □ Offset (O) □ Polyline (PL) □ Arc (A) □ Halfwidth (H) Length (L) □ Undo (U) □ Width (W)
2	11-02-2023	6,7,8	**Polyline edit (PEdit)** □ Close (C) □ Open (O) □ Join (J) □ Fit (F) □ Spline (S) Reverse (R) □ Undo (U) □ Edit vertex (E) □ **Circle (C)** Center, Radius (R) □ Center, Diameter (D) □ 2 Points (2P) □ 3 Points (3P) Tangent, Tangent, Radius (Ttr) □ Tangent, Tangent, Tangent □ **Polygon (POL)** □ Center □ Inscribed (I) Circumscribed (C) □ Edge (E) □ **Erase (E)** □ **Copy (CO)** □ Displacement (D) Mode (O) **Move (M)** □ Base point □ Displacement,**Rectangle (REC)** □ Chamfer (C) □ Elevation (E) □ Fillet (F) □ Thickness (T) □ Width (W) □ Area □ Dimension □ Rotation □ **Chamfer (CHA)** □ Undo (U) □ Polyline (P) □ Distance (D) □ Angle (A) □ Trim (T) □ Method (E) □ Multiple (M)**Fillet (F)** □ Undo (U) □ Polyline (P) □ Radius (R) □ Trim (T) □ Multiple (M) **Properties (PR)** □ **Line properties** □ **Match properties** □ Object □ Settings ,Layers □ **Layer (LA)** □ Layer current (LAYCUR) □ Layer delete (LAYDEL) □ Layer close (LAYERCLOSE) □ Layer freeze (LAYFRZ) □ Layer thaw (LAYTHW) □ Layer isolated (LAYISO) □ Layer unisolated (LAYUNISO) □ Layer lock (LAYLCK) □ Layer unlock (LAYULK) Layer match (LAYMCH) □ Layer merge (LAYMRG) □ Layer on (LAYON) □ Layer off (LAYOFF) □ Layer walk (LAYWALK) ,Copy to layer
3	18-02-2023	6,7,8	**Arc (A)** □ 3 point□ Start, Center, End □ Start, Center, Angle □ Start, Center, Length □ Start, End, Angle □ Start, End, Direction □ Start, End, Radius □ Center, Start, End □ Center, Start, Angle □ Center, Start, Length Continue □ **Array (AR)** □ **Rectangular Array (ARRAYRECT)** □ Associative (AS) □ Base point (B) □ Count (C) Spacing (S) □ Columns (C) □ Rows (R) □ Levels (L) □ Exit (X) □ **Polar Array (ARRAYPOLAR)** □ Associative (AS) □ Base point (B) Items (I) □ Angle between (A) □ Fill (F) □ Rows (R) □ Levels (L) □ Rotate (ROT) exit (X) □ **Path Array (ARRAYPATH)** □ Associative (AS),□ Items (I) Levels (L) □ Z- Direction □ Method Tangent direction □ Rows (R) □ Align items, Exit (X) □ **Arrayedit (ARRAYEDIT)** □ Source (S) □ Replace (REP) □ Method □ Base point (B) □ Items (I) □ Rows (R) □ Levels (L) □ Z-DirectionReset (R) □ Exit (X) □ -Array (-ARRAY) □ **Array classic c (ARRAYCLASSIC)**□ **Mirror (MI)** □ **Rotate (RO)** □ Copy (C) □ Reference (R) □ Offset (O) □ Through (T) □ Erase (E) □ Layer (L) □ **Scale (SC)** □ Copy ,□ Reference (R) □ **Donut (DO)** □ **Fill (FILL)** □ **Regeneration mode (RE)** □ **Multiline (ML)** □ Justification (J) Scale (S) □ Style (ST) □ Top (T) □ Zero (Z) □ Bottom (B) □ Multiline Style (MLSTYLE) □ **Multiline Edit (MLEDIT)** □ Cross intersection □ Closed cross (CC) □ Open cross (OC) □ Merged cross (MC) □ Tee intersection □ Closed Tee (CT) □ Open Tee (OT) □

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE-TIME TABLE

AutoCAD Course

			point □ Join (J) □ Explode(X) □ Region (REG)
8	*01.04.2023*	*6,7,8*	*Layout (LO) □ Layout wizard □ Multi view (MVIEW) □ View ports (VPORTS) Viewport maximum (VPMAX) □ Viewport minimum (VPMIN) □ LAYVPI □ Model space (MS) □ Paper space (PS) □ Model,Tilemode (TI),Attributes (ATT) External reference (XR) □ Page Setup Manager □ Plot (Ctrl+P) □ Sheet set(SSM),Export(EXP) Options (OP) ,Image(IM) □ Imageadjust □ Imageattach Imageclip □ Imagequality □ Imageframe □ Title block creation □*
9	*22.04.2023*	*6,7,8*	*Isometric views □ Isoplane change □ Ellipse(EL) ,Isocircle,**Isometric practice**,3D-MODELING □ Introduction to AutoCAD 3d □ Starting three dimensional modelling in AutoCAD □ Use of three dimensional drawing □ Types of 3d models □ Wireframe models □ Surface model,Solid model,**Visual Styles** ,2D Wireframe □ Wireframe Hidden □ Conceptual Shaded □ Shaded with edges Shaded of gray Sketchy □ X-ray □ Realistic **Surface Creation** ,Planar surface □ Edge surface, Ruled surface, Revolved surface , Tabulated surface □ Surftab*
10	*29.04.2023*	*6,7,8*	***Creating Solid Models** □ Polysolid □ Box □ Wedge □ Cone □ Sphere , Cylinder , Torus □ Pyramid , Helix □ Presspull □ Sweep □ Revolve □ Loft,**3D Operations** □ 3D Move □ 3D Rotate □ 3D Align 3D Array □ Rectangular array Polar array □ 3D Mirror Slice □ Thickening,Convert to Surface □ Convert to solids □ Extract edges,**Solid Editing** □ Union □ Subtract □ Intersect □ Extrude faces Move faces □ Offset faces □ Rotate faces □ Taper faces □ Copy faces Color face,Delete faces □ Fillet edges Chamfer edges □ Imprint □ Separate □ Shell*
11	*06.05.2023*	*5,6,7*	*UCS icon □ Dynamic UCS □ Viewport □ Creating 3D Models (practice session),Material browser □ Assigning materials □ Assigning selected materials to object □ Basic rendering □ Creating new materials Default light □ Point light Spot light □ Distance light,□ Camera □ Walkthrough □ Motion recorder □ Import*
12	*06.05.2023*	*8*	*Internal Assessment 2*

Head of the Department
Department of Civil Engineering
PERI Institute of Technology
Mannivakkam, Chennai - 600 048

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

CVA012 AutoCAD Course

STUDENTS LIST-II YEAR

S.No.	Register Number	Name of the Student
1	411521103002	Abishek B
2	411521103005	Gokul Chandran
3	411521103006	Kaviya V
4	411521103007	Pratheep kumar P
5	411521103008	Rakki B
6	411521103009	Tharun D
7	411521103010	Thenmozhi V
8	411521103011	Thunga Siresh S
9	411521103013	Vasunthara A
10	411521103301	Arun S
11	411521103302	Bhuvaneshwari S
12	411521103303	Ezhilarasan U
13	411521103304	Gokul Raj J
14	411521103305	Gurumoorthy S
15	411521103306	Janarthanan G
16	411521103307	Kamalakannan T
17	411521103308	Manikandan J
18	411521103309	Parthiban E
19	411521103310	Rajesh R
20	411521103311	Rijish Kumar M
21	411521103312	Selvam S

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE-AutoCAD Course

ATTENDANCE SHEET

S.No	Register Number	Name of the Student	YEAR	04-02-2023	11-02-2023	18-02-2023	25-02-2023	04.03.2023	18.03.2023	25.03.2023	01.04.2023	22.04.2023	29.04.2023	06.05.2023
1	411521103002	Abishek B	II											
2	411521103005	Gokul Chandran	II											
3	411521103006	Kaviya V	II											
4	411521103007	Pratheep kumar P	II											
5	411521103008	Rakki B	II											
6	411521103009	Tharun D	II				FB			AB				
7	411521103010	Thenmozhi V	II											
8	411521103011	Thunga Siresh S	II											
9	411521103013	Vasunthara A	II											
10	411521103301	Arun S	II											
11	411521103302	Bhuvaneshwari S	II											
12	411521103303	Ezhilarasan U	II											
13	411521103304	Gokul Raj J	II											
14	411521103305	Gurumoorthy S	II					AB						
15	411521103306	Janarthanan G	II											
16	411521103307	Kamalakannan T	II											
17	411521103308	Manikandan J	II											
18	411521103309	Parthiban E	II											
19	411521103310	Rajesh R	II											
20	411521103311	Rijish Kumar M	II											
21	411521103312	Selvam S	II											

AutoCAD

SYLLABUS MANUAL

Head of the Department
Department of Civil Engineering
Institute of Technology,
Kelambakkam, Chennai-600 048

HOUR -1

- Need for Designing
- Introduction to CAD/CAM/CAE
- Concept of Designing and Drafting
- Angle of projections
- First angle projection
- Third angle projection
- Orthographic and Isometric views
- Quadrants
- Basic Drafting rules
- Introduction to AutoCAD
- Introduction to Autodesk

HOUR -2

COORDINATE SYSTEMS

- Absolute co-ordinate system
    a. Absolute origin
    b. Cartesian coordinates
- Relative methods
    - Relative Rectangular method
        - Concept of using @ symbol
        - Syntax
    - Relative Polar method
        - Syntax
        - Angle calculation in four quadrants

HOUR -3

AUTOCAD BASICS

- Workspace
- Ribbon bar (RIBBON)
- Command line (CTRL+9/CLI)
- Menu bar
- Function keys

CADD SCHOOL

- Tangent, Tangent, Radius (Ttr)
- Tangent, Tangent, Tangent

- Polygon (POL)
  - Center
    - Inscribed (I)
    - Circumscribed (C)
  - Edge (E)
- Erase (E)
- Copy (CO)
  - Displacement (D)
  - Mode (O)
- Move (M)
  - Base point
  - Displacement (D)

HOUR -5

- Rectangle (REC)
  - Chamfer (C)
  - Elevation (E)
  - Fillet (F)
  - Thickness (T)
  - Width (W)
  - Area
  - Dimension
  - Rotation
- Chamfer (CHA)
  - Undo (U)
  - Polyline (P)
  - Distance (D)
  - Angle (A)
  - Trim (T)
  - Method (E)
  - Multiple (M)

CADD SCHOOL

- Start, Center, End
- Start, Center, Angle
- Start, Center, Length
- Start, End, Angle
- Start, End, Direction
- Start, End, Radius
- Center, Start, End
- Center, Start, Angle
- Center, Start, Length
- Continue

➢ Array (AR)

- Rectangular Array (ARRAYRECT)
  - Associative (AS)
  - Base point (B)
  - Count (C)
  - Spacing (S)
  - Columns (C)
  - Rows (R)
  - Levels (L)
  - Exit (X)
- Polar Array (ARRAYPOLAR)
  - Associative (AS)
  - Base point (B)
  - Items (I)
  - Angle between (A)
  - Fill (F)
  - Rows (R)
  - Levels (L)
  - Rotate (ROT)
  - exit (X)
- Path Array (ARRAYPATH)
  - Associative (AS)
  - Base point (B)

- Reference (R)

- Donut (DO)
- Fill (FILL)
- Regeneration mode (RE)
- Multiline (ML)
  - Justification (J)
  - Scale (S)
  - Style (ST)
    - Top (T)
    - Zero (Z)
    - Bottom (B)
- Multiline Style (MLSTYLE)
- Multiline Edit (MLEDIT)
  - Cross intersection
    - Closed cross (CC)
    - Open cross (OC)
    - Merged cross (MC)
  - Tee intersection
    - Closed Tee (CT)
    - Open Tee (OT)
    - Merged Tee (MT)
  - Corner Joint (CJ)
  - Adding vertices (AV) & Deleting Vertices (DV)
  - Cutting and Welding Multiple
    - Cut single (CS)
    - Cut all (CA)
    - Weld all (WA)

HOUR -9

- Spline (SPL)
  - Methods (M)
  - Knots (K)
  - Object (O)

- Write block (W)
  - Base point
  - Object
- Trim (TR)
  - Fence (F)
  - Crossing (C)
  - Project (P)
    - None
    - UCS
    - View
  - Edge (E)
    - Extend
    - No Extend
  - Erase (R)
  - Undo (U)
- Extend (EX)
  - Fence (F)
  - Crossing (C)
  - Project (P)
    - None
    - UCS
    - View
  - Edge (E)
    - Extend
    - No extend
  - Undo (U)

HOUR -11

- Dimensioning concepts
- Need for Dimensioning
- Fundamental dimensioning terms
  - Dimension line
  - Dimension text

- Rotated (R)

- Aligned Dimension (DAL)
  - M text (M)
  - Text (T)
  - Angle (A)

HOUR -13

- Arc Length (DAR)
  - M text (M)
  - Text (T)
  - Angle (A)
  - Partial (P)
  - Leader (L)
- Baseline Dimension (DBA)
- Continuous Dimension (DCO)
- Angular Dimension (DAN)
- Diameter Dimension (DDI)
  - M text (M)
  - Text (T)
  - Angle (A)
- Radius Dimension (DRA)
  - M text (M)
  - Text (T)
  - Angle (A)
- Jogged Dimension (DJO)
  - M text (M)
  - Text (T)
  - Angle (A)
- Ordinate Dimension (DOR)
  - X datum (X)
  - Y datum (Y)
  - M text (M)
  - Text (T)
  - Angle (A)

- Right (R)
- Align (A)
- Middle (M)
- Fit (F)
- Top Left (TL)
- Top Center (TC)
- Top Right (TR)
- Middle Left (ML)
- Middle Center (MC)
- Middle Right (MR)
- Bottom Left (BL)
- Bottom Center (BC)
- Bottom Right (BR)

❖ Style (S)

➢ Mtext (MT)

❖ Height (H)
❖ Justify (J)
❖ Line Spacing (L)
❖ Rotation (R)
❖ Style (S)
❖ Width (W)
❖ Columns (C)

➢ Mtedit (MTED)
➢ Text edit (DTED)

❖ Home (H)
❖ New (N)
❖ Rotate (R)
❖ Oblique (O)

➢ Multileader (MLEADER)
➢ Multileader edit (MLE)
➢ Multileader collect(MLC)
➢ Multileader align(MLA)
➢ Multileader style (MLS)

HOUR -20

- Attributes (ATT)
- External reference (XR)
- Page Setup Manager
- Plot (Ctrl+P)
- Sheet set(SSM)

HOUR -21

- Export(EXP)
- Options (OP)
- Image(IM)
- Imageadjust
- Imageattach
- Imageclip
- Imagequality
- Imageframe
- Title block creation

HOUR -22

- Isometric views
- Isoplane change
- Ellipse(EL)
    - Isocircle
- Isometric practice

HOUR -23

3D-MODELING

- Introduction to AutoCAD 3d
- Starting three dimensional modelling in AutoCAD
- Use of three dimensional drawing
- Types of 3d models
- Wireframe models
- Surface models

CADD SCHOOL

- Helix
- Presspull
- Sweep
- Revolve
- Loft

HOUR -26

3D Operations

- 3D Move
- 3D Rotate
- 3D Align
- 3D Array
  - Rectangular array
  - Polar array
- 3D Mirror
- Slice
- Thicken
- Convert to Surface
- Convert to solids
- Extract edges

HOUR -27

Solid Editing

- Union
- Subtract
- Intersect
- Extrude faces
- Move faces
- Offset faces
- Rotate faces
- Taper faces
- Copy faces
- Color faces

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ADD ON COURSE

AutoCAD Course

STUDENT'S FEEDBACK

Reg.No. : 411521103308

Name of the Student : MANIKANDAN. J

Date : 06/05/2023

Name of the Trainer : Mr. SINSOM

.If you have attended the Value added course we would like to make sure that the session was relevant and useful. Give your appropriate feedback to make the future sessions more beneficial to you.

Please tick (√) the option you find most suitable.

S.No.	Particular	Excellent (1)	Very good (2)	Good (3)	Poor (4)
1	How much the session was useful from knowledge and information point of view?		✓		
2	How relevant was the content discussed by the resource person?		✓		
3	How much interesting was the session for you?	✓			
4	Did the course covering full fill your expectation?	✓			
5	What is your opinion about value added course?		✓		
6	Was the session interactive?		✓		
7	The content was organized and easy to follow.		✓		
8	The instructors explained the session well and provided practical training.	✓			
9	Overall effectiveness of the course?	✓			
10	I will recommended this seminar /workshop /conference/Value added course to other conservators		✓		

Any suggestions do you have for improving the events?

J. Manikandan
Signature of the student

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ADD ON COURSE

AutoCAD Course

STUDENT'S FEEDBACK

Reg.No. : 411521103302

Name of the Student : BHUVANESHWARI. S

Date : 06.05.2023

Name of the Trainer : Mr. SIMSON

.If you have attended the Value added course we would like to make sure that the session was relevant and useful. Give your appropriate feedback to make the future sessions more beneficial to you.

Please tick (√) the option you find most suitable.

S.No.	Particular	Excellent (1)	Very good (2)	Good (3)	Poor (4)
1	How much the session was useful from knowledge and information point of view?		√		
2	How relevant was the content discussed by the resource person?		√		
3	How much interesting was the session for you?		√		
4	Did the course covering full fill your expectation?		√		
5	What is your opinion about value added course?	√			
6	Was the session interactive?		√		
7	The content was organized and easy to follow.	√			
8	The instructors explained the session well and provided practical training.	√			
9	Overall effectiveness of the course?	√			
10	I will recommended this seminar /workshop /conference/Value added course to other conservators		√		

Any suggestions do you have for improving the events?

Bhuvanesh. S.

Signature of the student

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

AutoCAD Course

STUDENT'S FEEDBACK

Reg.No. : 411521103007

Name of the Student : P. Pratheep kumar

Date : 6/5/2023

Name of the Trainer : Mr. Simson

.If you have attended the Value added course we would like to make sure that the session was relevant and useful. Give your appropriate feedback to make the future sessions more beneficial to you.

Please tick (√) the option you find most suitable.

S.No.	Particular	Excellent (1)	Very good (2)	Good (3)	Poor (4)
1	How much the session was useful from knowledge and information point of view?		√		
2	How relevant was the content discussed by the resource person?		√		
3	How much interesting was the session for you?	√			
4	Did the course covering full fill your expectation?		√		
5	What is your opinion about value added course?		√		
6	Was the session interactive?		√		
7	The content was organized and easy to follow.		√		
8	The instructors explained the session well and provided practical training.	√			
9	Overall effectiveness of the course?		√		
10	I will recommended this seminar /workshop /conference/Value added course to other conservators		√		

Any suggestions do you have for improving the events?

P. Pratheep

Signature of the student

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28.01.2023

Chennai

From

The HOD-CIVIL,

Peri Institute of Technology

Mannivakkam,

Chennai-48

To

The Principal

PERI Institute of Technology

Chennai

Sir,

Sub: Approval to conduct a program on**"CVA035INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC"**– Reg

The department of Civil Engineeringis planning to conduct a program titled **"CVA035INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC"** training for Civil Engineering students. Kindly accord permission for conducting the program.

S.No.	Year	Scheduled Date	Session
1	III	04-02-2023 to 06-05-2023	6.7.8

Thanking You

Yours Truly

28/01/23

HOD/CIVIL

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023

ADD ON COURSE-TIME TABLE

CVA035-INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

S.No	Date	Hours	Topic
1	04-02-2023	6,7,8	Concepts of Non-destructive testing-relative merits and limitations, NDT Versus mechanical testing. Fundamentals of Visual Testing, vision, lighting
2	11-02-2023	6,7,8	Material attributes, environmental factors, visual perception. direct and indirect methods, mirrors, magnifiers, boroscopes. fibroscopes, light sources and special lighting.
3	18-02-2023	6,7,8	Liquid Penetrant Inspection: principle, applications, advantages and limitations, dyes, developers and cleaners. Methods & Interpretation.
4	25-02-2023	6,7,8	Magnetic Particle Inspection: Principles, applications, magnetization methods, magnetic particles. Testing Procedure, demagnetization, advantages and limitations. Interpretation and evaluation of test indications.
5	04.03.2023	6,7,8	Eddy Current Testing: Generation of eddy currents, properties, eddy current sensing elements, probes. Instrumentation. Types of arrangement, applications, advantages, limitations, calibration, Interpretation/Evaluation
6	18.03.2023	8	Internal Assessment 1
7	25.03.2023	6,7,8	Thermography, Principle, Contact & Non-Contact inspection methods, Active & Passive methods, Liquid Crystal, Concept, example, advantages & limitations. Electromagnetic spectrum, infrared thermography-approaches, IR detectors, applications.
8	01.04.2023	6,7,8	Ultrasonic Testing: Types of ultrasonic waves, characteristics, attenuation, couplants, probes. Inspection methods-pulse echo, transmission and phased array techniques, types of scanning and displays, angle beam inspection of welds. TOFD technique. Thickness determination by ultrasonic method
9	22.04.2023	6,7,8	Radiography Testing: Sources-X-rays and Gamma rays and their characteristics-absorption, scattering. Filters and screens. Imaging modalities-film radiography and digital radiography.
10	29.04.2023	6,7,8	NDT application in civil engineering practices for determination of material strength, material composition, detection of corrosion, dampness, thickness, delaminations, air-voids, imperfections, cracks.
11	06.05.2023	5,6,7	NDT tests for assessing quality of hardened concrete, structural steel, welds and joints, repair and retrofitting applications.
12	06.05.2023	8	Internal Assessment 2

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ADD ON COURSE

CVA035-INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

STUDENTS LIST

S.No.	Register Number	Name of the Student	YEAR
1	411520103001	Arun K	III
2	411520103003	Gokulnath H	III
3	411520103004	Guneshdharan K	III
4	411520103005	Nisha C	III
5	411520103006	Ragul E	III
6	411520103007	Saravanan M	III
7	411520103008	Sivaraman V	III
8	411520103009	Swetha T	III
9	411520103302	Bruno Joseph Aravindraj KB	III
10	411520103304	Indraraj N	III
11	411520103305	Kamesh B	III
12	411520103306	Kandeeban P	III
13	411520103307	Kathiravan S	III
14	411520103308	Raghul S	III
15	411520103309	Ranjithkumar R	III
16	411520103310	Sathya J	III
17	411520103311	Srinath P	III
18	411520103312	Suvam Karmakar	III
19	411520103313	Vanchinathan M	III
20	411520103314	Venkatesh S	III
21	411519103001	Aarif Ahmed F	IV
22	411519103002	Kesu Bhanu Chandra	IV
23	411519103003	Gopi Anand D	IV
24	411519103004	Ranjith R	IV
25	411519103005	Sathish Kumar V	IV
26	411519103006	Ushananthini M	IV
27	411519103301	Malathi S	IV
28	411519103302	Vigneshwaran D	IV

COORDINATOR

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ADD ON COURSE

INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC- CVA035

ATTENDANCE SHEET

S.No.	Register Number	Name of the Student	YEAR	04-02-2023	11-02-2023	18-02-2023	25-02-2023	04.03.2023	18.03.2023	25.03.2023	01.04.2023	22.04.2023	29.04.2023	06.05.2023
1	411520103001	Arun K	III											
2	411520103003	Gokulnath H	III											
3	411520103004	Guneshdharan K	III											
4	411520103005	Nisha C	III											
5	411520103006	Ragul E	III											
6	411520103007	Saravanan M	III											
7	411520103008	Sivaraman V	III											
8	411520103009	Swetha T	III											
9	411520103302	Bruno Joseph Aravindraj KB	III											
10	411520103304	Indraraj N	III											
11	411520103305	Kamesh B	III											
12	411520103306	Kandeeban P	III											
13	411520103307	Kathiravan S	III											
14	411520103308	Raghul S	III											
15	411520103309	Ranjithkumar R	III											
16	411520103310	Sathya J	III											
17	411520103311	Srinath P	III											
18	411520103312	Suvam Karmakar	III											
19	411520103313	Vanchinathan M	III											
20	411520103314	Venkatesh S	III											
21	411519103001	Aarif Ahmed F	IV											
22	411519103002	Kesu Bhanu Chandra	IV											
23	411519103003	Gopi Anand D	IV											
24	411519103004	Ranjith R	IV											
25	411519103005	Sathish Kumar V	IV											
26	411519103006	Ushananthini M	IV											
27	411519103301	Malathi S	IV											
28	411519103302	Vigneshwaran D	IV											

COORDINATOR

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023

ADD ON COURSE-SYLLABUS

CVA035INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

MODULE1:INTRODUCTION TO NDT&VISUAL TESTING

Concepts of Non-destructive testing-relative merits and limitations. NDT Versus mechanical testing. Fundamentals of Visual Testing, vision, lighting.Material attributes, environmental factors, visual perception. direct and indirect methods, mirrors, magnifiers, boroscopes. fibroscopes, light sources and special lighting.

MODULE 2 :LIQUID PENETRANT AND MAGNETIC PARTICLE TESTING

Liquid Penetrant Inspection: principle, applications. advantages and limitations, dyes, developers and cleaners. Methods & Interpretation.Magnetic Particle Inspection: Principles, applications, magnetization methods, magnetic particles. Testing Procedure, demagnetization, advantages and limitations. Interpretation and evaluation of test indications.

MODULE 3 :EDDY CURRENT TESTING AND THERMOGRAPHY

Eddy Current Testing: Generation of eddy currents. properties, eddy current sensing elements, probes. Instrumentation, Types of arrangement, applications. advantages, limitations, calibration. Interpretation/Evaluation.Thermography, Principle, Contact & Non-Contact inspection methods. Active & Passive methods, Liquid Crystal. Concept, example, advantages & limitations. Electromagnetic spectrum, infrared thermography-approaches, IR detectors, applications.

MODULE 4 :ULTRASONIC TESTIN ANDRADIOGRAPHY TESTING

Ultrasonic Testing: Types of ultrasonic waves, characteristics. attenuation, couplants, probes. Inspection methods-pulse echo, transmission and phased array techniques, types of scanning and displays, angle beam inspection of welds. TOFD technique, Thickness determination by ultrasonic method.Radiography Testing: Sources-X-rays and Gamma rays and their characteristics-absorption, scattering. Filters and screens. Imaging modalities-film radiography and digital radiography.

MODULE 5 :NDT APPLICATION

NDT application in civil engineering practices for determination of material strength, material composition. detection of corrosion, dampness, thickness, delaminations, air-voids, imperfections, cracks.NDT tests for assessing quality of hardened concrete, structural steel, welds and joints, repair and retrofitting applications.

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ADD ON COURSE-ASSESSMENT -I

CVA035 -INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

Year/Sem/Sec	**III/VI**	**Date**	**18.03.2023**
Department	**CIVIL**	**Duration**	**45 minutes**
Faculty	**Ms.C.Lavanya**	**Max. Marks**	**25**

Note:MARK THE CORRECT ANSWER IN OMR SHEET

1	---------- is a method of detecting internal flaws in engineering materials without breaking them. (a)NDT(b) NDE(c) NDI(d)EDT
2	What does "NDT" stand for? (a) Non-driving test (b) Non-destructive test (c) Non-dry test (d) Non-dial test
3	Which of the following is a non-destructive testing method a) Metallographic Testing b) Hardness Testing c) Stress Testing d) Radiography
4	The Non-Destructive Inspection (NDI) technique employed during inspection for castings of tubes and pipes to check the overall strength of a casting in resistance to bursting under hydraulic pressure is (a) Pressure testing (b) Magnetic particle inspection (c) Fluorescent penetrant (d) Radiographic inspection
5	----- are the commonly used NDT methods . a) Magnetic particle test b) Liquid penetrant test c) Radiography (X-ray/Gamma ray) test d) All the above
6	Ultrasonic testing is done in materials to determine a) Cracks below the surface b) Yield strength c) Ultimate tensile strength
	d) Hardness
7	Non - destructive testing plays an important role in a) Quality control b) Production control c) Planning control d) Quantitative analysis
8	One of the non destructive tests is "liquid penetrate testing". In this type a liquid penetrant is passed through the object to be tested. Which one of the following is a disadvantage in the above test? a) Parts with large surface areas can be measured rapidly at a low cost b) Can be applied only on nonporous materials c) Parts with complex shapes can be inspected d) Low initial investment cost
9	Which type of non-destructive test is suitable to check the internal defects weld in high-pressure boiler welding? a) Magnetic particle test b) Liquid penetrant test c) Radiography test d) Visual test
10	Which of the following is a non-destructive testing method a) Metallographic Testing b) Hardness Testing c) Stress Testing d) Radiography

11	Functions of optical aids are------- a) Magnify defects that can't be detected by unaided eye. b) Permits visual checks of areas not accessible to the unaided eye c) Both d) None
12	Defects that can be detected by unaided Visual Inspection are----- 1. Presence or absence of oxide film or corrosive products. 2. Presence or absence of cracks, orientation and position of cracks. 3. Surface porosity, unfilled craters, contour of the weld beads, etc a) 1,2 b) 1,2,3 c) 2,3 d) 1,3
13	What is the field of view range of borescope? a) 30 to 180 degree b) 10 to 90 degree c) 60 to 360 degree d) 10 to 180 degree
14	Which of the following option is true about hybrid borescopes? a) Use rod lenses combined with concave lenses b) Use rod lenses combined with concave mirror c) Use rod lenses combined with convex lenses d) Use rod lenses combined with convex mirror
15	Which type of special purpose system is used for the examination of hazardous process or for extreme radiations? a) Fibrescope b) Chamberscope c) Periscope d) Vacuum borescope
16	. Which of the following is not true for rigid borescopes? a) Operates like telescope in reverse b) Good for rapid examination c) Video adaptation is present d) Semi Rigid sheathing is present
17	Which of the following option is true for the given statements about flexible fibrescope? Statement 1: Fibrescope produce higher resolution than videoscope.
	Statement 2: Videoscopes have longer working length than fibrescope. a) T, T b) T, F c) F, F d) F, T
18	What is the use of fluorescent penetrants? a) Develop permanent visual records of a remote object b) Illuminates and observes internal, closed or inaccessible areas c) Enhance the observation of surface cracks d) Evaluate surface finish, shape and micro structure
19	Ferromagnetic material are (a) Capable of being magnetized (b) Not capable being magnetized (c) Attracted by a magnet (d) Both a & C
20	Magnetic particle testing (MPT) is a non destructive examination method used for finding (a) Surface discontinuities (b) Subsurface discontinuities (c) Both a & b (d) Any discontinuity in the material
21	A material that is difficult to magnetize shall have (a) High resistivity (b) High retentively (c) High permeability (d) Low permeability
22	. Advantage of Magnetic particle testing over Penetrant testing (a) It can detect sub surface discontinuities (b) MPI is faster than LPI (c) Both a & b (d) none of the above
23	A magnetic particle built up shall be strong on discontinuity while discontinuity be oriented _____to the magnetic field (a) 270 Degree C (b) 90 Degree C (c) 180 Degree C (d) 45 Degree C
24	Which of the following can be magnetized (a) Iron (b) Nickel (c) a & b both (d) None of the above
25	which of the following devices, the eddy current effect is not used? a) induction furnace b) magnetic braking in train c) Electromagnet d) electric heater

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ADD ON COURSE-ASSESSMENT -I

"INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

WRITE THE OPTIONS IN THE GIVEN SPACE

Year/Sem/Sec	**III/VI**	**Date**	**18.03.2023**
Department	**CIVIL**	**Duration**	**45 minutes**
REGISTER No.	411520103001	**Marks Obtained**	22
STUDENT NAME	ARUN.K	**Signature**	

Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION
1	A ✓	6	A ✓	11	C ✓	16	D ✓	21	D ✓
2	A ✓	7	A ✓	12	B ✓	17	D ✓	22	C ✓
3	D ✓	8	B ✓	13	B ✓	18	C ✓	23	B ✓
4	A ✓	9	B ✓	14	C ✓	19	C ✓	24	C ✓
5	D ✓	10	C ✓	15	C ✓	20	B ✓	25	D ✓

22/25

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ADD ON COURSE-ASSESSMENT -I

"INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

WRITE THE OPTIONS IN THE GIVEN SPACE

Year/Sem/Sec	**III/VI**	**Date**	**18.03.2023**
Department	**CIVIL**	**Duration**	**45 minutes**
REGISTER No.	411520103310	**Marks Obtained**	18
STUDENT NAME	SATHYA . J	**Signature**	Sathya. J.

Q.NO	*OPTION*	*Q.NO*	*OPTION*	*Q.NO*	*OPTION*	*Q.NO*	*OPTION*	*Q.NO*	*OPTION*
1	A ✓	6	A ✓	11	C ✓	16	A ✗	21	D ✓
2	A ✓	7	A ✓	12	B ✓	17	A ✗	22	C ✓
3	B ✗	8	B ✓	13	B ✓	18	C ✓	23	B ✓
4	C ✗	9	B ✗	14	C ✓	19	C ✓	24	C ✓
5	C ✗	10	B ✗	15	C ✓	20	C ✓	25	D

18/25

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE-ASSESSMENT -II

"CVA035-INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

Year/Sem/Sec	**III/VI**	**Date**	**06.05.2023**
Department	**CIVIL**	**Duration**	**45 minutes**
Faculty	**Ms.C.Lavanya**	**Max. Marks**	**25**

Note:MARK THE CORRECT ANSWER IN THE SPACE PROVIDED

1	In the given figure a metallic plate A is allowed to swing like a simple pendulum between the magnetic poles and it comes to rest after time t. If a slot is cut in the plate A and then it is allowed to swing with the same initial velocity as before then the time taken by it to come to rest will be: a) More than t b) Less than t c) t d) Can't say
2	The laminated cores are used in transformers to reduce: a) Magnetic losses b) Flux leakage c) Eddy current losses d) None of these
3	Which of the following is correct regarding eddy currents in the coil? a) Eddy currents flow in straight lines, like a wire. b) Eddy current helps in generating electrical energy. c) By making use of a laminated core, eddy currents are increased. d) Eddy currents converts useful energy into heat and waste it.
4	The commonly used frequency range for ultrasonic testing is (a) 5Hz-10Hz (b) 10Hz-20Hz (c) 20kHz-10MHz (d) 50MHz -100MHz
5	As the ultrasonic frequency increases (a) Velocity of sound increases (b) Velocity of sound decreases (c) Wave length decreases (d) Wave length increases
6	Which NDT method is mostly used to disclose the sub-surface lamination in a rolled plates (a) RT (b) UT (c) ET (d) MT
7	The equation describing wavelength in terms of velocity and frequency is (a) wavelength = velocity × frequency (b) wavelength = z (frequency × velocity) (c) wavelength = velocity ÷ frequency (d) wavelength = frequency ÷ velocity
8	The wavelength of an ultrasonic wave is (a) directly proportional to velocity and frequency. (b) directly proportional to velocity and inversely proportional to frequency. (c) inversely proportional to velocity and directly proportional to frequency (d) equal to the product of velocity and frequency.
9	Materials which can readily be inspected with frequencies of 1 to 5 MHz are (a) Steel, cast iron and concrete (b) Titanium, wood and aluminium

	(c) Magnesium, titanium and steel (d) All of the above
10	Test frequencies used in ultrasonic examination of castings w.r.t. forgings (a) Low frequency (b) Medium frequency (c) High frequency (d) No effect of frequency
11	If frequency is increased, wavelength: (a) decreases (becomes shorter). (b) increases (becomes longer). (c) remains the same but velocity increases. (d) remains the same but velocity decreases
12	X-rays penetrate human body and matter because it is radiation. a) electromagnetic radiation b) longer wavelength c) shorter wavelength d) invisible
13	X-rays are radiations then ultraviolet light. a) higher energy b) lower energy c) lower frequency d) longer wave length
14	During radiography of human body a will appear as darkest regions a) Crack b) Bone c) Muscle

	d) Skin
15	White radiation Consists of wavelength light. a) Single b) Two c) Three d) multiple
16	What is a destructive test? a) Destructive tests are applications for detecting flaws in materials without impairing their usefulness b) Destructive tests are applications for detecting flaws that impair the use of the materials such as pressure testing c) Destructive tests are applications for detecting flaws in materials with impairing their usefulness d) Destructive tests are applications for detecting flaws that do not impair the use of the materials such as pressure testing
17	------is the collective term for the physical manifestations of the defects like cracks, spalling, pop out, staining and corrosion. 1. Preservation 2. Distress 3. Defects 4. Failure
18	Which of the following is an acoustical property of the construction material? a) Thermal resistivity 2. Creep 3. Transmission 4. Hygroscopicity
19	The property of the material or a structure indicating the extent to which it can deform beyond the limit of yield deformation before failure or fracture is termed as: a) failure load b) Malleability c) Yielding d) ductility
20	With respect to ferrous metals which of the following is true? A. Iron is not any element of ferrous metals. B. Iron is a main element and most ferrous metal are magnetic. C. Iron is a main element and ferrous metals are not magnetic D. None
21	What is used for marking out steels?. A. Engineers blue.B. Wax crayon.C. Copper sulphate D.None
22	-----To estimate strength and hardness of the concrete in the cover region (IS: 13311 Part II) A. Rebound Hammer Test B. UPV Test: C. Both D. None

23	To measure homogeneity, uniformity, compactibility and presence of crack or void, thus representing durability of concrete A.Rebound Hammer Test B. UPV Test: C. Core Test D.Bar Locater and Cover Meter
24	--------: To evaluate in situ compressive strength of concrete (IS 516 & ASTM C42/41) A.Rebound Hammer Test B. UPV Test: C. Core Test D.Bar Locater and Cover Meter
25	----: To know the structural strength and protection to the reinforcement by cover concrete. A.Rebound Hammer Test B. UPV Test: C. Core Test D.Bar Locater and Cover Meter

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE-ASSESSMENT -II

"INTRODUCTION TO NON DESTRUCTIVE TESTING AND QA/QC

WRITE THE OPTIONS IN THE GIVEN SPACE

Year/Sem/Sec	**III/VI**	**Date**	**06.05.2023**
Department	**CIVIL**	**Duration**	**45 minutes**
REGISTER No.	415 19103006	**Marks Obtained**	23
STUDENT NAME	VSHANANTHINI.M	**Signature**	VShananthini.

Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION
1	B	6	B	11	A	16	B	21	C
2	C	7	C	12	C	17	B	22	A
3	D	8	B	13	A	18	C	23	B
4	C	9	C	14	A	19	B	24	C
5	C	10	B	15	D	20	B	25	C

23/25

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /CSE/CC/2022-2023/01 **DATE: 22-02-2022**

CIRCULAR

All the Students are hereby informed that Our College is going to organize five days in Training in " Data Science ". The intension of this training is that our students should enhance the ability to manage interviews and improve their Skills .So all students are invited to attend this Event.

RESOURCE PERSON : Mr Harish,Data Scientist
TATA Consultancy Services, Chennai

DATE : 13-03-2022 TO 17-03-2022

TIME : 8.30 AM – 3.30 PM

VENUE : BETA-CONFERENCE HALL

CODE : **CSA077**

Coordinator
22/02/2022

Head of the Department

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members – CSE Staffs
5. Main – Notice Board

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Computer Science and Engineering

TIME TABLE

Course Code: CSA077 **Year:IV YEAR CSE**

Course Name: DATA SCIENCE **Session: FN &AN**

Particulars	Session	Topic covered
DATE : 13-03-2022 TO 17-03-2022 **TIME : 8.30 AM – 3.30 PM** **VENUE: CONFERENCE HALL**	FN & AN	Introduction to data science-Exploratory data analysis-Introduction to machine Learning, Linear regression and regularization.
	FN & AN	Model selection and evaluation-Classification: kNN, decision trees-Classification: SVM,Ensemble methods: random forests-Intro to probability: Naïve Bayes and logistic regression.
	FN & AN	Feature engineering and selection-Clustering:k-means,hicrarchical,clustering-Dimensionality,reduction: PCA and SVD
	FN & AN	Text mining and information retrieval-Network Analysis-Recommender systems-Relational database-SQL .
	FN & AN	Big data storage and retrieval: noSQL,GraphOB,Big data distributed computing: map-map-reduce-spark rdd

HOD/CSE

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Students Name List for Data Science (13.03.2022 to 17.03.2022)

S..No.	Register Number	Name of the Student
1.	411519104001	Akash G
2.	411519104002	Althaf Khan G
3.	411519104003	Ansul Jafera
4.	411519104004	Arulmani.G
5.	411519104005	Augustin Raja J
6.	411519104006	Ayesha Munawar M
7.	411519104007	Babyswetha.P
8.	411519104010	Blessy Evangelin L
9.	411519104011	Chitra. C
10.	411519104012	Dayana K
11.	411519104013	Deepak Kumar Bhagat
12.	411519104014	Dhaneshkumar M
13.	411519104016	Dinesh Kumar.N
14.	411519104017	Divya. G

15.	411519104018	Gabriel Nixson Jones.J
16.	411519104019	Gokul.R
17.	411519104020	Gopinath.V
18.	411519104021	Gownori Jasmitha
19.	411519104022	Hariharan B
20.	411519104023	Hariharan.R
21.	411519104024	Hariharan.S
22.	411519104026	Harshini Rajkumar
23.	411519104027	Hemavathy. K
24.	411519104028	Jagatheesan V
25.	411519104029	Jasmine Jenifer Mary X
26.	411519104031	Kabil J
27.	411519104032	Kalaivani K
28.	411519104033	Pavan Kaligiri
29.	411519104034	Karthick.A
30.	411519104035	Keerthana.V
31.	411519104036	Kishore C
32.	411519104037	Kishore.U
33.	411519104038	Kumaravel B M
34.	411519104039	Lakshmi Priya.S
35.	411519104041	Logeshwaran S

36.	411519104042	Malavika.M
37.	411519104043	Manasa A
38.	411519104044	Mani Bharathi. B
39.	411519104045	Manikandan.V
40.	411519104046	Mareeswari.M
41.	411519104047	Medepalli Yadidya
42.	411519104048	Mohamed Hameed N
43.	411519104049	Mukesh.S
44.	411519104050	Muthukumar M
45.	411519104053	Nandhini. J
46.	411519104054	Naveen L
47.	411519104060	Ben Joseph.P
48.	411519104093	Swetha.C
49.	411519104302	Balaji R
50.	411519104040	Linga Sai Dhathri
51.	411519104051	Nallapaneni Vamsi Krishna
52.	411519104052	Namburi Srinadh
53.	411519104055	Naveenkumar.D
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65.	411519104069	Priyadharshan V
66.	411519104070	Priyadharshini.M
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91.	411519104098	Vikram Rj
92.	411519104099	Vishwa C
93.	411519104100	Yokesh S
94.	411519104101	Yuvashree.R
95.	411519104098	Vikram Rj

S. S. V.
Co-ordinator
23/7

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
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Mannivakkam, Chennai - 600 048

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Attendance Sheet for Data Science (13.03.2022 to 17.03.2022)

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1.	411519104001	Akash G					
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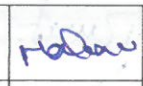
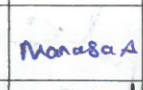
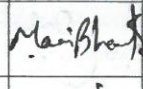
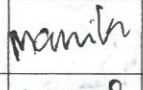
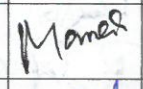
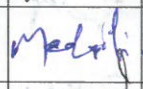
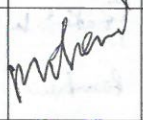
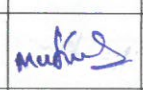
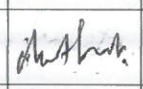
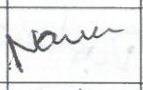
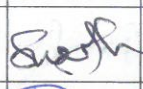
34.	411519104039	Lakshmi Priya.S					
35.	411519104041	Logeshwaran S					

36.	411519104042	Malavika.M					
37.	411519104043	Manasa A					
38.	411519104044	Mani Bharathi. B					
39.	411519104045	Manikandan.V					
40.	411519104046	Mareeswari.M					
41.	411519104047	Medepalli Yadidya					
42.	411519104048	Mohamed Hameed N					
43.	411519104049	Mukesh.S					
44.	411519104050	Muthukumar M					
45.	411519104053	Nandhini. J					
46.	411519104054	Naveen L					
47.	411519104060	Ben Joseph.P					
48.	411519104093	Swetha.C					
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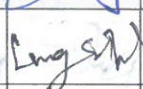
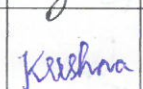
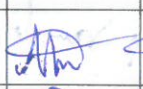
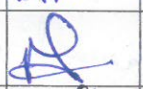
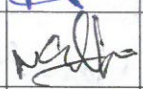
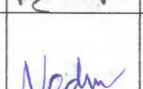
50.	411519104040	Linga Sai Dhathri					
51.	411519104051	Nallapaneni Vamsi Krishna					
52.	411519104052	Namburi Srinadh					
53.	411519104055	Naveenkumar.D					
54.	411519104056	Naveen Kumar .M					
55.	411519104057	Nedunseraladhan S					
56.	411519104058	Parthiban D					

57.	411519104061	Pavithra.M					
58.	411519104062	Poli.Sunil					
59.	411519104063	Ponduri.Sri Sushma					
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S. S. V.
Co-ordinator
23/7

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

SYLLABUS

MODULE 1: INTRODUCTION TO DATA SCIENCE

Introduction to data science-Exploratory data analysis-Introduction to machine learning Linear regression and regularization

MODULE II: UNVEILING THE CLASSIFICATION TOOLBOX

Model selection and evaluation-Classification: kNN, decision trees-Classification: SVM Ensemble methods: random forests-Intro to probability: Naïve Bayes and logistic regression

MODULE III: ADVANCED THE CONCEPTS OF DATASET

Feature engineering and selection-Clustering:k-means,hierarchieal,clustering-Dimensionality reduction: PCA and SVD

MODULE IV: TEXT MINING AND DATABASE

Text mining and information retrieval-Network Analysis-Recommender systems-Relational databases, SQL

MODULE V : BIG DATA ECOSYSTEM

Big data storage and retrieval: noSQL, GraphDB, Big data distributed computing: map-reduce, spark rdd

Coordinator

HOD/CSE

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

FEEDBACK FORM

DATE: 17/03/2022

Name of the Student: Pooja.M
Register No: 411519104064
Year/Semester II
Course Code: CSA077
Course Name: Data science

1. What is your assessment of the course material?

   Data science is my assessment.

2. How effective was the instructor's delivery of the content?

   They did the instructions very good and they have conveyed the content clearly.

3. Rate the overall quality of the program.

   5

4. Would you suggest this program to your peers or underclassmen?

   NO, I don't

5. Suggestions for enhancement, if any:

   NO

Pooja.M
Signature of the Student

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

FEEDBACK FORM

DATE: 17/3/22

Name of the Student: Malavika .M
Register No: 411519104042
Year/Semester III
Course Code: CSA077
Course Name: Data Science

1. What is your assessment of the course material?

   First three topic in the portion !

2. How effective was the instructor's delivery of the content?

   The instructor delivers the content in easy and understandable manner

3. Rate the overall quality of the program.

   5, Nice

4. Would you suggest this program to your peers or underclassmen?

   Yes, it is useful for my career

5. Suggestions for enhancement, if any:

   Nil

M. Malavika

Signature of the Student

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INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /CSE/CC/2022-2023/02 **Date: 13-03-2023**

CIRCULAR

The Department of Computer Science and Engineering is planning to conduct a program titled "Workshop on Artificial Intelligence & Data Science" for the Academic Year 2022 – 2023. III year Computer Science and Engineering students are directed to attend the program.

CODE:CSA014

S.No.	Year	Scheduled Date	Time
1	IV	21/03/2023 -24/3/2023	8.30 AM to 3.30 PM

Co-ordinator

Head of the Department

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members – CSE Staffs
5. Main – Notice Board

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2019-2020

AGENDA OF THE MEETING

Course Code: CSA014 **Year: III year**

Course Name: Artificial Intelligence & Data Science **Session: FN & AN**

Particulars	Session	Topic covered
DATE: 21/03/2023 - 24/3/2023 **TIME: 8.30 A.M To 3.30 P.M** **VENUE: CONFERENCE HALL**	FN & AN	**Module 1: Foundational Concepts and Techniques** Introduction to AI and Data Science-Statistics and Probability: - Linear Algebra-, applications in machine learning-Programming for Data Science: Python basics, libraries like pandas and NumPy.
	FN & AN	**Module 2: Machine Learning Fundamentals** Supervised Learning: Regression (linear, logistic), classification (kNN, decision trees).Unsupervised Learning:.Model Selection and Evaluation-Introduction to Deep Learning: Artificial neural networks, basic concepts
	FN & AN	**Module 3: Data Engineering and Management** Data Acquisition and Cleaning- Feature Engineering and Selection- Data Storage and Retrieval- Data Warehousing and Business Intelligence
	FN & AN	**Module 4: Advanced Topics in AI and Data Science** Natural Language Processing (NLP)- Computer Vision- Reinforcement Learning- Ensemble Methods- Applications in Healthcare

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Students Name List for Artificial Intelligence & Data Science (21/03/2023 -24/3/2023)

S..No.	Register Number	Name of the Student
1.	411521104001	Abdul Majith A
2.	411521104002	Abishekraj K B
3.	411521104003	Abinash S
4.	411521104004	Adnan Mohammed S
5.	411521104005	Akash Jebaraj I
6.	411521104006	Annamalai M
7.	411521104007	Archana B
8.	411521104008	Arokia Anushya A
9.	411521104009	Arul Pandian P
10.	411521104010	Ashwin V
11.	411521104011	Bargavi A V
12.	411521104012	Bhuvanesh G
13.	411521104013	Chandrakala V
14.	411521104014	Chandru B S
15.	411521104015	Damodaren V

16.	411521104016	Dayana M
17.	411521104017	Deepak J
18.	411521104018	Deepak Kumar K
19.	411521104019	Deepan M
20.	411521104020	Deepan Chakkaravarthi K
21.	411521104021	Devakumari S
22.	411521104022	Devatharshini B
23.	411521104023	Dhanush V
24.	411521104024	Dhanush Vel Nidhi M
25.	411521104025	Dharani T
26.	411521104026	Dinesh V
27.	411521104027	Dinesh Chaudhary D
28.	411521104028	Dinesh Kumar L
29.	411521104029	Dinesh Kumar M
30.	411521104030	Dinesh Kumar S
31.	411521104031	Divya S
32.	411521104032	Elakiya K
33.	411521104033	Elakya R
34.	411521104034	Franklin Joshwa S
35.	411521104035	Gayathri B
36.	411521104036	Gokul D
37.	411521104037	Gokul R

38.	411521104038	Gowsalya D
39.	411521104039	Guberan T
40.	411521104040	Hari Krishnan U
41.	411521104041	Harini M
42.	411521104042	Harish S
43.	411521104044	Ishasri P
44.	411521104045	Jagan M
45.	411521104046	Jana R
46.	411521104047	Jeffrin Nelson J
47.	411521104048	Jitto M
48.	411521104050	Jogan Roy K
49.	411521104051	Karthi S
50.	411521104052	Karthika E
51.	411521104053	Karthikeyan N
52.	411521104054	Kavitha S
53.	411521104055	Kavitha V
54.	411521104056	Keerthika M
55.	411521104057	Keerthivasan S
56.	411521104058	Kowsalya B
57.	411521104059	Lakshmi Priya M
58.	411521104060	Lavanya B
59.	411521104301	Anitha M

60.	411521104302	Arun
61.	411521104303	Baskar C
62.	411521104304	Christoper Daniel
63.	411521104305	Dhivakar M
64.	411521104306	Harish P
65.	411521104309	MadanKishore
66.	411521104311	Pradeep Raj
67.	411521104312	Praveen V
68.	411521104701	Mohamed sirajuddin
69.	411521104061	Lavanya P
70.	411521104063	Little Jacob P
71.	411521104064	Madhumitha S
72.	411521104065	Mageswari D.
73.	411521104066	Maha Lakshmi M
74.	411521104067	Maluni B
75.	411521104068	Mariya Joshwa S
76.	411521104069	Meenatshigunavathi R
77.	411521104070	Mohammmed Abdul Rahim P
78.	411521104071	Mohan Raj M
79.	411521104072	Mohan Raji S.
80.	411521104074	Navya Vijayan *
81.	411521104075	Nimmi Hassan P

82.	411521104076	Nitish Kumar S
83.	411521104077	Nivedya V.
84.	411521104078	Nivetha R
85.	411521104080	Pavithra U
86.	411521104081	Pooja B.
87.	411521104082	Poojasree A
88.	411521104083	Pradeep Kumar M.
89.	411521104061	Lavanya P
90.	411521104063	Little Jacob P
91.	411521104064	Madhumitha S
92.	411521104065	Mageswari D.
93.	411521104066	Maha Lakshmi M
94.	411521104067	Maluni B
95.	411521104068	Mariya Joshwa S
96.	411521104069	Meenatshigunavathi R
97.	411521104070	Mohammmed Abdul Rahim P
98.	411521104071	Mohan Raj M
99.	411521104072	Mohan Raji S.
100.	411521104074	Navya Vijayan *
101.	411521104075	Nimmi Hassan P
102.	411521104076	Nitish Kumar S
103.	411521104077	Nivedya V.

104.	411521104080	Pavithra U
105.	411521104081	Pooja B.
106.	411521104082	Poojasree A
107.	411521104083	Pradeep Kumar M.
108.	411521104084	Priya M
109.	411521104085	Priyadharshini R
110.	411521104086	Pugazhendhi J
111.	411521104087	Pushparaj E
112.	411521104088	Rahul A.D
113.	411521104080	Pavithra U
114.	411521104081	Pooja B.
115.	411521104082	Poojasree A
116.	411521104083	Pradeep Kumar M.
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123.	411521104081	Pooja B.
124.	411521104082	Poojasree A

Co-ordinator **HOD**

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INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Attendance Report for Artificial Intelligence & Data Science (21/03/2023 -24/3/2023)

S..No.	Register Number	Name of the Student	21.03.23	22.03.23	23.03.23	24.03.23
1.	411521104001	Abdul Majith A				
2.	411521104002	Abishekraj K B				
3.	411521104003	Abinash S				
4.	411521104004	Adnan Mohammed S				
5.	411521104005	Akash Jebaraj I				
6.	411521104006	Annamalai M				
7.	411521104007	Archana B				
8.	411521104008	Arokia Anushya A	AB			
9.	411521104009	Arul Pandian P				
10.	411521104010	Ashwin V				
11.	411521104011	Bargavi A V				
12.	411521104012	Bhuvanesh G				
13.	411521104013	Chandrakala V				
14.	411521104014	Chandru B S				
15.	411521104015	Damodaren V				

16.	411521104016	Dayana M				
17.	411521104017	Deepak J				
18.	411521104018	Deepak Kumar K				
19.	411521104019	Deepan M				
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68.	411521104701	Mohamed sirajuddin				
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98.	411521104071	Mohan Raj M				
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110.	411521104086	Pugazhendhi J				
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113.	411521104080	Pavithra U				
114.	411521104081	Pooja B.				
115.	411521104082	Poojasree A				
116.	411521104083	Pradeep Kumar M.				
117.	411521104084	Priya M				
118.	411521104085	Priyadharshini R				
119.	411521104086	Pugazhendhi J				
120.	411521104087	Pushparaj E				
121.	411521104088	Rahul A.D				
122.	411521104080	Pavithra U				
123.	411521104081	Pooja B.				
124.	411521104082	Poojasree A				

Co-ordinator **HOD**

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

FEEDBACK FORM

DATE: 24/03/2023

Name of the Student: Guberan. T
Register No: 411521104039
Year/Semester IV / VIII
Course Code: CSA014
Course Name: Artificial Intelligence and Data science.

1. What is your assessment of the course material?

Assessment of the Course material is too good. Easily Understanable.

2. How effective was the instructor's delivery of the content?

Instructor's delivers the content very briefly. I understand clearly about this course how can create impact in future

3. Rate the overall quality of the program.

Excellent (5 star.)

4. Would you suggest this program to your peers or underclassmen?

Yes.

5. Suggestions for enhancement, if any:

Signature of the Student

Guberan. T.

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /CSE/CC/2022-2023/03 **Date: 13-03-2023**

CIRCULAR

The Department of Computer Science and Engineering is planning to conduct a program titled "Workshop on Artificial Intelligence" for the Academic Year 2022 – 2023. II year Computer Science and Engineering students are directed to attend the program.

CODE:CSA015

S.No.	Year	Scheduled Date	Time
1	II	25/03/2023 -30/3/2023	8.30 AM to 3.30 PM

Co-ordinator

Head of the Department

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members – CSE Staffs
5. Main – Notice Board

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

AGENDA OF THE MEETING

Course Code: CSA015 **Year:II year**

Course Name:Artificial Intelligence **Session: FN & AN**

Particulars	Session	Topic covered
DATE: 25/03/2023 TO 30/3/2023 **VENUE: CONFERENCE HALL**	FN & AN	**Module 1: Introduction to Artificial Intelligence** Introduction to AI-Intelligent Agents: Types of agents, problem-solving approaches (search algorithms, game playing)-Knowledge Representation and Reasoning-Machine Learning Fundamentals.
	FN & AN	**Module 2: Advanced Machine Learning** Deep Learning-Introduction to artificial neural networks, applications in image recognition and natural language processing.-Ensemble.
	FN & AN	**Module 3: Methods toAdvanced Machine Learning** Methods: Random forests, boosting techniques for improved model performance-Reinforcement Learning: Learning through trial and error, applications in robotics and game playing-Explainable AI (XAI): Understanding how AI models make decisions
	FN & AN	**Module 4 :Text Analysis in AI** Natural Language Processing (NLP): Text analysis, sentiment analysis, chatbot development.-Computer Vision: Image processing, object recognition, applications in robotics
	FN & AN	**Module 5: Applications and Ethics of AI** Applications of AI in various domains (e.g., healthcare, finance, marketing)Ethical Considerations in AI: Bias, fairness, transparency, and societal impact.

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Students Name List for Artificial Intelligence & Data Science (24/03/2023 -30/3/2023)

S..No.	Register Number	Name of the Student
1.	411522104007	AYESHA K
2.	411522104008	BALAMURUGAN C
3.	411522104009	BASHINI M
4.	411522104010	BHARATH E
5.	411522104011	BHARATHI P
6.	411522104012	BHUVANA K
7.	411522104013	BRINDHA G
8.	411522104014	CHINNASAMY S
9.	411522104015	DEVASURYA S
10.	411522104017	DHASVANTH KUMAR B R
11.	411522104018	DHINESH M
12.	411522104019	DINESH KUMAR K
13.	411522104020	DINESH RAM S
14.	411522104021	DIVAKAR K
15.	411522104022	DIVYA M
16.	411522104023	DIVYA DHARSHINI A
17.	411522104024	ESHWANTH B
18.	411522104025	EZHILMOZHI M S

19.	411522104026	GIRIDHARAN M
20.	411522104027	GOBI SUNDAR R
21.	411522104028	GOKUL G
22.	411522104029	GOKULRAJ A
23.	411522104030	HARINI PRIYA S
24.	411522104033	HARISRI R
25.	411522104034	HARSHA S G
26.	411522104035	JAGANTHAN P
27.	411522104036	JANA PRIYANKA P
28.	411522104037	JAYASHREE M
29.	411522104007	AYESHA K
30.	411522104008	BALAMURUGAN C
31.	411522104009	BASHINI M
32.	411522104010	BHARATH E
33.	411522104011	BHARATHI P
34.	411522104012	BHUVANA K
35.	411522104013	BRINDHA G
36.	411522104014	CHINNASAMY S
37.	411522104015	DEVASURYA S
38.	411522104040	JENIFER B
39.	411522104041	JESHEEBA FATHIMA M
40.	411522104042	JOTHIKA S
41.	411522104043	JOYCE DEVA KIRUBAI A
42.	411522104044	KALAIMARAN
43.	411522104045	KALAIVANI S

44.	411522104046	KALPANA SRI E
45.	411522104047	KARAN RAJ S
46.	411522104049	KAVYA J
47.	411522104050	KAVYA S
48.	411522104051	KAWIN V B
49.	411522104054	KRISHNAN S
50.	411522104055	LAVANYA M
51.	411522104056	LITHESH T.S
52.	411522104057	LOGESH M
53.	411522104058	LOGESH KUMAR C N
54.	411522104060	MADHUMITHA M
55.	411522104061	MADHUMITHA S
56.	411522104062	MOHAMEED IDRIS M
57.	411522104064	MONISHA P
58.	411522104065	MONISHA S.S
59.	411522104040	JENIFER B
60.	411522104041	JESHEEBA FATHIMA M
61.	411522104042	JOTHIKA S
62.	411522104043	JOYCE DEVA KIRUBAI A
63.	411522104044	KALAIMARAN
64.	411522104045	KALAIVANI S
65.	411522104046	KALPANA SRI E
66.	411522104047	KARAN RAJ S
67.	411522104049	KAVYA J
68.	411522104050	KAVYA S

69.	411522104051	KAWIN V B
70.	411522104054	KRISHNAN S
71.	411522104055	LAVANYA M
72.	411522104056	LITHESH T.S
73.	411522104057	LOGESH M
74.	411522104058	LOGESH KUMAR C N
75.	411522104060	MADHUMITHA M
76.	411522104061	MADHUMITHA S
77.	411522104062	MOHAMEED IDRIS M
78.	411522104064	MONISHA P
79.	411522104065	MONISHA S.S
80.	411522104066	MUGESH ADHITHYA A
81.	411522104068	NANCY S
82.	411522104078	PERIYANNAN C
83.	411522104080	PRAJAN E
84.	411522104106	SREEMATHI S
85.	411522104114	THAMAYANDHI M
86.	411522104001	AAKASH J.
87.	411522104002	AKASH KUMMAR I
88.	411522104016	DHARSHINI S
89.	411522104031	HARIPRIYA M.
90.	411522104032	HARISH A.
91.	411522104048	KARTHIKA R.
92.	411522104052	KEERTHIGA N.
93.	411522104059	MADHAN KUMAR P.

94.	411522104063	MONICA B
95.	411522104067	NAGALAKSHMI V
96.	411522104069	NANDHINI S.
97.	411522104070	NARMADHA S
98.	411522104071	NAVEENA U.
99.	411522104072	NAVEEN KUMAR M
100.	411522104073	NAVEEN RAJ D
101.	411522104074	PAVITHRA M.
102.	411522104075 (221211)	PAVITHRA S.
103.	411522104076 (221481)	PAVITHRA S.
104.	411522104077	PERARULALAN V
105.	411522104079	POORNA CHANDRA D
106.	411522104081	PREETHI S
107.	411522104082	PREMCHAND P.
108.	411522104083	PRIYA S
109.	411522104084	PRIYADHARSHINI R
110.	411522104085	REVATHI V.
111.	411522104086	RITHIKA L
112.	411522104087	ROHIT K.
113.	411522104088	ROHIT RAM H
114.	411522104089	ROOBA KUMAR V K
115.	411522104090	SAGAYAMADISH A
116.	411522104091	SANGEETHA S
117.	411522104092	SANJAY K.

118.	411522104093	SANJAY S
119.	411522104094	SANTHOSH A.
120.	411522104095	SATHISH S
121.	411522104096	SATHISH KUMAR M
122.	411522104097	SATHIYARAJ D.
123.	411522104098	SAYED SALMAN S
124.	411522104099	SCHOLASTICA B
125.	411522104100	SHAILESHWARAN A.V.K.
126.	411522104101	SHALINI V P
127.	411522104102	SHANTHEEP P
128.	411522104103	SIBHI D.

Co-ordinator

HOD

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PERI
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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Attendance Report for Artificial Intelligence & Data Science (24/03/2023 -30/3/2023)

S..No.	Register Number	Name of the Student	25.03.23	27.03.23	28.03.23	29.03.23	30.03.23
1.	411522104007	AYESHA K					
2.	411522104008	BALAMURUGAN C					
3.	411522104009	BASHINI M					
4.	411522104010	BHARATH E					
5.	411522104011	BHARATHI P					
6.	411522104012	BHUVANA K					
7.	411522104013	BRINDHA G					
8.	411522104014	CHINNASAMY S					
9.	411522104015	DEVASURYA S					
10.	411522104017	DHASVANTH KUMAR B R					
11.	411522104018	DHINESH M					
12.	411522104019	DINESH KUMAR K					
13.	411522104020	DINESH RAM S					
14.	411522104021	DIVAKAR K					
15.	411522104022	DIVYA M					
16.	411522104023	DIVYA DHARSHINI A					
17.	411522104024	ESHWANTH B					
18.	411522104025	EZHILMOZHI M S					

19.	411522104026	GIRIDHARAN M					
20.	411522104027	GOBI SUNDAR R					
21.	411522104028	GOKUL G					
22.	411522104029	GOKULRAJ A					
23.	411522104030	HARINI PRIYA S					
24.	411522104033	HARISRI R					
25.	411522104034	HARSHA S G					
26.	411522104035	JAGANTHAN P					
27.	411522104036	JANA PRIYANKA P					
28.	411522104037	JAYASHREE M					
29.	411522104007	AYESHA K					
30.	411522104008	BALAMURUGAN C					
31.	411522104009	BASHINI M					
32.	411522104010	BHARATH E					
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34.	411522104012	BHUVANA K					
35.	411522104013	BRINDHA G					
36.	411522104014	CHINNASAMY S					
37.	411522104015	DEVASURYA S					
38.	411522104040	JENIFER B					
39.	411522104041	JESHEEBA FATHIMA M					
40.	411522104042	JOTHIKA S					
41.	411522104043	JOYCE DEVA KIRUBAI A					
42.	411522104044	KALAIMARAN					
43.	411522104045	KALAIVANI S					

44.	411522104046	KALPANA SRI E					
45.	411522104047	KARAN RAJ S					
46.	411522104049	KAVYA J					
47.	411522104050	KAVYA S					
48.	411522104051	KAWIN V B					
49.	411522104054	KRISHNAN S					
50.	411522104055	LAVANYA M					
51.	411522104056	LITHESH T.S					
52.	411522104057	LOGESH M					
53.	411522104058	LOGESH KUMAR C N					
54.	411522104060	MADHUMITHA M					
55.	411522104061	MADHUMITHA S					
56.	411522104062	MOHAMEED IDRIS M					
57.	411522104064	MONISHA P					
58.	411522104065	MONISHA S.S					
59.	411522104040	JENIFER B					
60.	411522104041	JESHEEBA FATHIMA M					
61.	411522104042	JOTHIKA S					
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78.	411522104064	MONISHA P					
79.	411522104065	MONISHA S.S					
80.	411522104066	MUGESH ADHITHYA A					
81.	411522104068	NANCY S					
82.	411522104078	PERIYANNAN C					
83.	411522104080	PRAJAN E					
84.	411522104106	SREEMATHI S					
85.	411522104114	THAMAYANDHI M					
86.	411522104001	AAKASH J.					
87.	411522104002	AKASH KUMMAR I					
88.	411522104016	DHARSHINI S					
89.	411522104031	HARIPRIYA M.					
90.	411522104032	HARISH A.					
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123.	411522104098	SAYED SALMAN S					
124.	411522104099	SCHOLASTICA B					
125.	411522104100	SHAILESHWARAN A.V.K.					
126.	411522104101	SHALINI V P					
127.	411522104102	SHANTHEEP P					
128.	411522104103	SIBHI D.					

Co-ordinator

HOD

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

FEEDBACK FORM

DATE: 28/03/2023

Name of the Student: Bashini. M
Register No: 211522104009
Year/Semester 2nd / 4th
Course Code: CSA015
Course Name: Artificial intelligent

1. What is your assessment of the course material?

The Assessment of the course material very useful

2. How effective was the instructor's delivery of the content?

clear content delivered

3. Rate the overall quality of the program.

(five star)

4. Would you suggest this program to your peers or underclassmen?

Yes

5. Suggestions for enhancement, if any:

No, suggestions.

Signature of the Student

Bashini M

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /ECE/Add-On Course/2022-23/01 **Date: 10.01.2023**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "ROBOTICS AND ITS APPLICATION" for the Academic Year 2022 – 2023 for IV year ECE students.

CODE:ECA022

S.No.	Year	Scheduled Date	Session 1	Session 2
1	IV	25.02.2023- 08.04.2023	8.30 AM to 11.45AM	12.30PM to 2.00PM

10.1.23

Co-ordinator

Head of the Department

Head of the Department
ELECTRONICS AND COMMUNICATION ENGINEERING
PERI INSTITUTE OF TECHNOLOGY
CHENNAI - 600 048.

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2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Course Code: EC A022 **Year/Semester:IV/VIII**

Course Name: Robotics and its Application **Session: FN& AN**

S.No	DATE	HOURS	TOPIC
1	25.02.23	1st-6th	Introduction-brief history,definition,anatomy,types,classification,specification and need based appplications,role and need of robots for the immediate problem of the society.future mankind and automation ethical issues.
2	11.03.23	1st-6th	Types of electric motors-DC,servo,Stepper; specification,drives for motor-speed & direction control and circuitry,Selection criterion for actuators,direct drives,non-traditional actuators
3	18.03.23	1st-6th	Sensors for localization,navigation,obstacle avoidance and path planning in known and unknown environments-optical,inertial,thermal,chemical,biosensor and other common sensors;Case study on choice of sensors and actuators for maze solving robot ans self driving cars
4	25.03.23	1st-6th	Robot kinematics-Geometric approach for 2R,3R manipulators,homogenous transformation using D-H representation,kinematics of WMR,Lagrangian formulation for 2R robot dynamics;Mechanical design aspects of a 2 R manipulator,WMR.
5	01.04.23	1st-6th	End -Effector-common types and design case study.Mapping & Navigation-SLAM,Path planning for serial manipulators,types of control architecturesCartesian control,Force Control and hybrid position/force control,Behaviour based control,application of Neural network,fuzzy logic
6	08.04.23	1st-6th	Optimization algorithms for navigation problems ,programming methodologies of a robot,Application of Machine Learning-AI,Expert systems;Tele-robotics and virtual reality,Micro & Nanorobots,Unmanned vehicles,Cognitive robotics,Evolutionary robotics,Humanoids

Coordinator **HOD/ECE**

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2022-2023
IV/ECE

S.NO	REGISTER NO	NAME OF THE STUDENT
1	411519106001	AKASH S
2	411519106002	BAGAVATH.P
3	411519106003	CHANDRU S
4	411519106004	DESULUGIRI KODANDARAMI REDDY
5	411519106005	DINESH V
6	411519106006	GOLDA FAITH T
7	411519106007	HARISH R
8	411519106009	KARTHICKKUMAR M
9	411519106010	KAVIPRIYA M
10	411519106011	KAVIYA E S
11	411519106012	KEERTHI R
12	411519106013	KARTHEEK VARMA K
13	411519106015	MERLIN P
14	411519106016	MUGILAN K
15	411519106017	PRAKRUTHI M A
16	411519106018	PRAVEEN RAJ T
17	411519106019	RAVI KUMAR V
18	411519106020	SANGEETHA V
19	411519106021	SARVEPALLI DEEPAK
20	411519106022	SASI KUMAR S
21	411519106023	SHAJITHABARVEEN S
22	411519106024	SHALINI D
23	411519106025	SNEGA S
24	411519106026	SWARNA C R
25	411519106027	VELAN S
26	411519106028	VINOTH KUMAR R
27	411519106301	ARUN PRASATH V
28	411519106302	MATHESH G
29	411519106303	RAGUL P
30	411519106304	VISWANATH E

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PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
Attendance Report-Robotics and its Application ECA 022

S.NO	REG. NO.	NAME OF THE STUDENT	25.02.23	11.03.23	18.03.23	25.03.23	01.04.23	08.04.23
1	411519106001	AKASH S						
2	411519106002	BAGAVATH.P						
3	411519106003	CHANDRU S						
4	411519106004	DESULUGIRI KODANDARAMI REDDY						
5	411519106005	DINESH V						
6	411519106006	GOLDA FAITH T						
7	411519106007	HARISH R						
8	411519106009	KARTHICKKUMAR M						
9	411519106010	KAVIPRIYA M						
10	411519106011	KAVIYA E S						
11	411519106012	KEERTHI R						
12	411519106013	KARTHEEK VARMA K						
13	411519106015	MERLIN P						
14	411519106016	MUGILAN K						
15	411519106017	PRAKRUTHI M A						
16	411519106018	PRAVEEN RAJ T						
17	411519106019	RAVI KUMAR V						
18	411519106020	SANGEETHA V						
19	411519106021	SARVEPALLI DEEPAK						
20	411519106022	SASI KUMAR S						
21	411519106023	SHAJITHABARVEEN S						
22	411519106024	SHALINI D						
23	411519106025	SNEGA S						
24	411519106026	SWARNA C R						
25	411519106027	VELAN S						
26	411519106028	VINOTH KUMAR R						

27	411519106301	ARUN PRASATH V	Arun.V	Arun.V	Arun.V	Arun.V	Arun.V	Arun.V
28	411519106302	MATHESH G	Mathesh.G	Mathesh.G	Mathesh.G	Mathesh.G	Mathesh.G	Mathesh.G
29	411519106303	RAGUL P	Ragul.P	Ragul.P	Ragul.P	Ragul.P	Ragul.P	Ragul.P
30	411519106304	VISWANATH E	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw
PRESENT			30	30	30	30	30	30
ABSENT			NIL	NIL	NIL	NIL	NIL	NIL

8/4/23

Co-ordinator

8/4/23

HOD/ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I:FOUNDATION FOR BEGINNERS

Introduction-brief history,definition,anatomy,types,classification,specification and need based applications;role and need of robots for the immediate problem of the society.future mankind and automation ethical issues.

MODULE II: BUILDING BLOCKS OF A ROBOT

Types of electric motors-DC,servo,Stepper; specification,drives for motor-speed & direction control and circuitry,Selection criterion for actuators,direct drives,non-traditional actuators;Sensors for localization,navigation,obstacle avoidance and path planning in known and unknown environments-optical,inertial,thermal,chemical,biosensor and other common sensors;Case study on choice of sensors and actuators for maze solving robot ans self driving cars.

MODULE III: KINEMATICS,DYNAMICS & END- EFFECTORS

Robot kinematics-Geometric approach for 2R,3R manipulators,homogeneous transformation using D-H representation,kinematics of WMR,Lagrangian formulation for 2R robot dynamics;Mechanical design aspects of a 2 R manipulator,WMR;End -Effector-common types and design case study.

MODULE IV: NAVIGATION,PATH PLANNING AND CONTROL ARCHITECTURE

Mapping & Navigation-SLAM,Path planning for serial manipulators,types of control architectures-Cartesian control,Force Control and hybrid position/force control,Behaviour based control,application of Neural network,fuzzy logic,optimization algorithms for navigation problems ,programming methodologies of a robot.

MODULE V: AI AND OTHER RESEARCH TRENDS IN ROBOTICS

Application of Machine Learning-AI,Expert systems;Tele- robotics and virtual reality,Micro & Nano robots,Unmanned vehicles,Cognitive robotics,Evolutionary robotics,Humanoids.

Coordinator

HOD/ECE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT ON
ROBOTICS AND ITS APPLICATION

1). The robots with the designation TRI are known as _____ robots?

Spherical
Articulated
Both a and b
None of the above

2). How many sections does robot manipulator consists of?

One
Two
Three
Four

3). Which one of the following generation robots are remote controlled?

First
Second
Third
None of the above

4). What is the standard form of DOF?

Degree of Finance
Degree of Freedom
Degree of Fail
None of the above

5). The study of motion without regard to forces is known as _____?

Kinematics
Dynamics
Actuator
Sensor

6). Which one of the following robots also called spherical robot?

SCARA
Delta
Polar
None of the above

7). Which one of the following robots comes under first generation?

Information robots

Autonomous loading

Autonomous harvesting

None of the above

8). Which one of the following engineering deals with machinery and structure of robots?

Electrical

Mechanical

Computer

All of the above

9). _____ is an example for simple level robots?

Washing machine

Fully automatic washing machine

Laptop

None of the above

10). The robots with the designation TRR is known as _____ robots?

Spherical

Articulated

Both a and b

None of the above

11). The dynamic robots are categorized into _____ types?

One

Two

Three

Four

12). What is the standard form of ZMP?

Zero Memory Point

Zero Momentum Point

Zero Main Point

None of the above

13). The joints of the robots are categorized into _____ types?

One

Two

Three

None of the above

14). Which one of the following sections in robot manipulator used for positioning?

Body & arm
Wrist assembly
Both a and b
None of the above

15). The study of motion with regard to forces is known as _____?

Kinematics
Dynamics
Actuator
All of the above

16). How many categories of sensors are used in industrial robots?

One
Two
Three
Four

17). What is the standard form of FCAW?

Flux Common Arc Welding
Flux Cored Arc Welding
First Cored Arc Welding
None of the above

18). What are the advantages of robots?

Don't need experience
Cost lot of money
Need a huge power supply
Replace human workers

19). The robots are categorized into _____ types based on control system?

One
Two
Three
None of the above

20). Which one of the following joints comes under translational motion?

Orthogonal Joint
Rotational Joint
Twisting Joint
None of the above

21). Which one of the following robots is based on physical configuration?

SCARA
Point to point
Controlled path
Continuous path

22). Which one of the following robots with two prismatic joints?

Cartesian
Cylindrical
Articulated
None of the above

23). What are the advantages of SCARA?

Limited applications
Two ways to reach point
Highly complex
High speed

24). Which one of the following commonly used for weld sealing?

Cartesian
Articulated
Cylindrical
None of the above

25). What are the advantages of articulated robots?

All joints can be sealed from the environment
Low accuracy
Restricted volume coverage
Extremely difficult to visualize

26). What is the standard form of LRC?

Locked Room Code
Locked Rotor Code
Last Rotor Code
None of the above

27). Which one of the following is flexible and easy to use?

Robot
Cobot
Both a and b
None of the above

28). In which one of the following, minimum integrations is required?

Robot

Cobot

Both a and b

None of the above

29). Which one of the following robots commonly used for handling at die casting machine?

Cylindrical

Cartesian

Both a and b

None of the above

30). How many types of robotic joints are there?

Five

Two

Three

None of the above

PERI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /ECE/Add-On Course/2022-23/02 **Date: 10.01.2023**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-oncourse titled "ADVANCE JAVA PROGRAMMING" for the Academic Year 2022 – 2023 for III year ECE students.

CODE:ECA023

S.No.	Year	Scheduled Date	Session 1	Session 2
1	III	25.02.2023 -01.04.2023	8.30 AM to 11.45AM	12.30PM to 2.00PM

10.1.23

Co-ordinator

Head of the Department

Head of the Department
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CHENNAI - 600 048.

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4. Faculty Members
5. Notice Board

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Subject Code: EC A023 **Year/Semester:III/VI**

Subject Name: Advanced Java Programming **Session: FN& AN**

S.No	DATE	HOURS	TOPIC
1	25.02.2023	1st-6th	Java features-Java Platform-Java Fundamentals-Expressions,Operators,and Control Structures-Classes,Methods-inheritance-Packages and Interfaces-Boxing,Unboxing-Variable-Length Arguments(Varargs),Exception Handling.
2	11.03.2023	1st-6th	Utility packages,Introduction to Collection-Hierarchy of collection framework-Generics-Array List,LL,Hashset,Treeset,HashMap-comparators-Java annotations-Premain method.
3	18.03.2023	1st-6th	Input Output Packages-Inner Classes-Java Database Connectivity-IntroductionJDBC Drivers-JDBC Connectivity with MySQL/Oracle-Prepared Statement & Result Set-JDBC Stored procedures invocation-Servlets-RMI Swing Fundamentals-Swing Classes
4	25.03.2023	1st-6th	Tiered Application development-Java Servers,containers-Web Container-Creating Web Application using JSP/Servlets-Web Frameworks Introduction to Spring/Play Framework
5	01.04.2023	1st-6th	Java jar Files-Introspection-Garbage collection-Architecture and design-GC Cleanup process,Invoking GC,Generation in GC-Networking Basics Java an the Net.

Coordinator

HOD/ECE

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ACADEMIC YEAR 2022-2023
III/ECE

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22	411520106024	R KAKA MAGESH BABU
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24	411520106026	A. KAVIYA
25	411520106027	A. MANIKANDAN
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27	411520106029	P. NAVEEN
28	411520106030	S. NIDHEESH RAJ
29	411520106031	R PRADEEP
30	411520106032	A PRADEEP KUMAR
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33	411520106035	R. SANMUGAPRIYA
34	411520106036	S. SARMITHA
35	411520106037	N SHALINI
36	411520106038	S SIDDIQUE

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37	411520106039	S SIVAPRAKASH
38	411520106041	V SRINIVASAN
39	411520106042	R SUSMITHA
40	411520106043	V. THATCHAYANI
41	411520106044	C THAVASIRAM
42	411520106045	B. THOLKAPPIYAN
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Attendance Report-Advanced Java Programming- ECA023

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20	411520106021	M. JAYAKUMAR					
21	411520106023	OM JAYASHAKTHI					
22	411520106024	R KAKA MAGESH BABU					
23	411520106025	N KARTHIK					
24	411520106026	A. KAVIYA					
25	411520106027	A. MANIKANDAN					
26	411520106028	M MUGILA					
27	411520106029	P. NAVEEN					
28	411520106030	S. NIDHEESH RAJ					

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34	411520106036	S. SARMITHA					
35	411520106037	N SHALINI					
36	411520106038	S SIDDIQUE					
37	411520106039	S SIVAPRAKASH					
38	411520106041	V SRINIVASAN					
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52	411520106306	K SATHISH					
53	411520106307	P SWETHA					
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PRESENT							
ABSENT							

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I:JAVA FUNDAMENTALS

Java features-Java Platform-Java Fundamentals-Expressions,Operators,and Control Structures-Classes,Methods-inheritance-Packages and Interfaces-Boxing,Unboxing-Variable-Length Arguments(Varargs),Exception Handling.

MODULE II: COLLECTIONS AND ADVANCE FEATURES

Utility packages,Introduction to Collection-Hierarchy of collection framework-Generics-Array List,LL,Hashset, Treeset, HashMap- comparators-Java annotations- Premain method.

MODULE III: ADVANCE JAVA PROGRAMMING

Input Output Packages-Inner Classes-Java Database Connectivity-IntroductionJDBC Drivers-JDBC Connectivity with MySQL/Oracle-Prepared Statement & Result Set-JDBC Stored procedures invocation-Servlets-RMI Swing Fundamentals-Swing Classes.

MODULE IV: OVERVIEW OF DATA RETRIEVAL &INTERPRISE APPLICATION DEVELOPMENT

Tiered Application development-Java Servers,containers-Web Container-Creating Web Application using JSP/Servlets-Web Frameworks Introduction to Spring/Play Framework.

MODULE V: JAVA INTERNALS AND NETWORKING

Java jar Files-Introspection-Garbage collection-Architecture and design-GC Cleanup process,Invoking GC,Generation in GC-Networking Basics Java an the Net.

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ASSESSMENT ON ADVANCES JAVA PROGRAMMING

42/50

07/04/2025

1.What is the full form of JDBC?
A. Java Database Connectivity
B. Java Database Collection
C. Java Data Collection
D. Java Database Component

2.What is the purpose of a PreparedStatement in JDBC?
A. To execute a parameterized SQL query
B. To execute a stored procedure
C. To execute a batch of SQL statements
D. To execute a dynamic SQL query

3.Which interface in Java is used to define the behavior of servlets?
A. ServletContext
B. ServletConfig
C. Servlet
D. HttpServlet

4.Which HTTP method is used to retrieve data from a web server?
A. GET
B. POST
C. PUT
D. DELETE

5.What is the purpose of JSP?
A. To create dynamic web pages
B. To create static web pages
C. To create server-side applications
D. To create client-side applications

6.What is the purpose of a JAR file?
A. To package Java class files and associated metadata into a single file
B. To package HTML, CSS, and JavaScript files into a single file
C. To package images and other media files into a single file
D. To package database files into a single file

7.Which interface is used to handle events in Java?
A. Action Listener
B. Event Listener
C. Mouse Listener
D. Key Listener

8.What is the purpose of the finally block in a try-catch-finally statement?
A. To execute code that must be executed regardless of whether an exception occurs
B. To execute code that must be executed if an exception occurs
C. To execute code that must be executed if no exception occurs
D. To execute code that must be executed before any other code

9.What is the difference between == and equals() method in Java?
A. == compares the object references, while equals() compares the object content
B. equals() compares the object references, while == compares the object content
C. Both compare the object references
D. Both compare the object content

10.What is the purpose of the synchronized keyword in Java?
A. To prevent multiple threads from accessing the same code block simultaneously
B. To allow multiple threads to access the same code block simultaneously
C. To prevent multiple threads from accessing the same variable simultaneously
D. To allow multiple threads to access the same variable simultaneously

11.Which keyword is used to create an interface in Java?
A. class
B. interface
C. abstract
D. implements

12.What is the purpose of the super keyword in Java?
A. To refer to the superclass of a class
B. To refer to the current instance of a class
C. To refer to a static method of a class
D. To refer to a static variable of a class

13.What is the purpose of the static keyword in Java?
A. To create a class-level variable or method
B. To create an instance-level variable or method
C. To prevent a variable or method from being modified
D. To allow a variable or method to be modified

14.Which keyword is used to declare a method that does not return a value?
A. void
B. int
C. boolean
D. double

15.Which data structure in Java is used to implement a stack?
A. LinkedList
B. ArrayList
C. Stack
D. HashSet

16.Which data structure in Java is used to implement a binary search tree?
A. LinkedList
B. ArrayList
C. TreeMap
D. HashSet

17.What is the difference between an abstract class and an interface in Java?
A. An abstract class can have method implementations while an interface can only have method signatures.
B. An interface can have method implementations while an abstract class can only have method signatures.
C. Both abstract classes and interfaces can have method implementations.
D. An abstract class is a blueprint for creating objects while an interface is not.

18.What is the purpose of the finalize() method in Java?
A. To free system resources before an object is garbage collected
B. To free system resources after an object is garbage collected
C. To create a new object before an object is garbage collected
D. To create a new object after an object is garbage collected

19.Which class in Java is used to create and manage threads?
A. Thread
B. Runnable
C. Executor
D. Timer

20.Which exception is thrown when a method is called with illegal arguments?
A. IllegalAccessException
B. IllegalArgumentException
C. InvocationTargetException
D. ClassNotFoundException

21.Which exception is thrown when a method or class is not found?
A. IllegalAccessException
B. IllegalArgumentException
C. InvocationTargetException
D. ClassNotFoundException

22.What is the purpose of the assert keyword in Java?
A. To test whether a condition is true and throw an exception if it is false
B. To test whether a condition is false and throw an exception if it is true
C. To test whether a variable is null and throw an exception if it is not
D. To test whether a variable is not null and throw an exception if it is

23.What is the purpose of the getClass() method in Java?
A. To return the runtime class of an object
B. To return the superclass of a class
C. To return the interface of a class
D. To return the package of a class

24.What is the purpose of the clone() method in Java?
A. To create a copy of an object
B. To create a new instance of a class
C. To create a new instance of an interface
D. To create a new instance of an abstract class

25.Which method is used to read data from a file in Java?
A. read()
B. write()
C. readLine()
D. writeLine()

26.Which class is used to create a server socket in Java?
A. Socket
B. ServerSocket
C. DatagramSocket
D. MulticastSocket

27.Which class in Java is used to handle date and time?
A. Date
B. Time
C. Calendar
D. Timestamp

28.What is the purpose of the java.lang package in Java?
A. To provide fundamental classes and interfaces
B. To provide network-related classes and interfaces
C. To provide GUI-related classes and interfaces
D. To provide database-related classes and interfaces

29.Which keyword is used to prevent a method or variable from being inherited in Java?
A. final
B. static
C. private
D. protected

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /ECE/Add-On Course/2022-23/03 **Date: 16.02.2023**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "ETHICAL HACKING" for the Academic Year 2022 – 2023 for II year ECE students.

CODE:ECA024

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II	04.03.2023-13.05.2023	8.30 AM to 11.45AM	12.30PM to 2.00PM

16/02/23

Co-ordinator

Head of the Department

Head of the Department
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Course Code: ECA024 **Year/Semester:II/IV**

Course Name: Ethical Hacking **Session: FN& AN**

S.No	DATE	HOURS	TOPIC
1	04.03.23	1st-6th	Understanding the importance of security-Concept of ethical hacking and essential Terminologies Threat-Attack-Vulnerabilities-Target of Evaluation Exploit.Phases involved in hacking
2	08.04.23	1st-6th	Foot printing-Introduction to foot printing-Understanding the information gathering methodology of the hackers-Tools used for the reconnaissance phase.Port scanning- Introduction-using port scanning tools-Ping sweeps,Scripting Enumeration-Introduction-Enumerating windows OS & Linux OS
3	29.04.23	1st-6th	Aspect of Remote password guessing-Role of Eavesdropping-Various methods of Password cracking-Keystroke Loggers-Understanding sniffers-Comprehending Active and Passive sniffing-ARP Spoofing-Redirection DNS and IP Sniffing-HTTPS Sniffing
4	06.05.23	1st-6th	Web application vulnerabilities-Application Coding errors-SQL Injection into Back end Databases-Cross-site scripting-cross-site request forging, Authentication bypass-Web services and related flaws-Protective http headers, Understanding session Hijacking-Phases involves in Session Hijacking-Types of Session Hijacking-Session Hijacking Tools
5	13.05.23	1st-6th	Introduction to 802.11-Role of WEP-Cracking WEP Keys-Sniffing Traffic Wireless DOS Attacks-WLAN Scanners-WLAN Sniffers-Hacking Tools-Securing Wireless Network.

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ACADEMIC YEAR 2022-2023
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DEPARTMENT OF ECE

Attendance Report-Ethical Hacking - ECA024

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22	411521106022	ISHWARYA M					
23	411521106023	KALAIMATHI P.					
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25	411521106025	KANAGAVEL M					
26	411521106027	LALITHA V					
27	411521106028	LOGAPRASATH P.S					
28	411521106029	MALIN S.					
29	411521106030	MALINI S					
30	411521106031	MINNALA P.					

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32	411521106033	MOHAMMED KHALITH R						
33	411521106034	MONISHA A						
34	411521106035	MONISHA E						
35	411521106036	NARMATHA M						
36	411521106037	NAVIN RAJ KUMAR S						
37	411521106038	NEHEMYA V						
38	411521106039	NETHAJI R						
39	411521106041	NOORUL FAMITHA A						
40	411521106042	PRATHAP K						
41	411521106045	RAGUL S.						
42	411521106046	RAMYA U						
43	411521106047	RESHMI S						
44	411521106048	SAKTHI S						
45	411521106051	SHARUK E						
46	411521106052	SILAMBARASAN S.						
47	411521106053	SUDHAN M						
48	411521106054	SUDHARSHAN K						
49	411521106055	SUJITHA S						
50	411521106056	SWETHA R.						
51	411521106057	SWETHA T.						
52	411521106059	THIRUPATHY G						
53	411521106060	VIJAYA SRI Y.						
54	411521106061	VIMALA P						
55	411521106062	VINOTH BHARATHI K						
56	411521106302	LOKESH KUMAR R.						
57	411521106309	YUVAGIRI R						
PRESENT			57	57	57	57	57	
ABSENT			—	—	—	—	—	

13/05/23
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I: ETHICAL HACKING OVERVIEW & VULNERABILITIES

Understanding the importance of security-Concept of ethical hacking and essential Terminologies Threat-Attack-Vulnerabilities-Target of Evaluation Exploit.Phases involved in hacking.

MODULE II: FOOT PRINTING AND PORT SCANNING

Foot printing-Introduction to foot printing-Understanding the information gathering methodology of the hackers-Tools used for the reconnaissance phase.Port scanning-Introduction-using port scanning tools-Ping sweeps,Scripting Enumeration-Introduction-Enumerating windows OS & Linux OS.

MODULE III: SYSTEM HACKING

Aspect of Remote password guessing-Role of Eavesdropping-Various methods of Password cracking-Keystroke Loggers-Understanding sniffers-Comprehending Active and Passive sniffing-ARP Spoofing-Redirection DNS and IP Sniffing-HTTPS Sniffing

MODULE IV: HACKING WEB SERVICES & SESSION HIJACKING

Web application vulnerabilities-Application Coding errors-SQL Injection into Back end Databases-Cross-site scripting-cross-site request forging, Authentication bypass-Web services and related flaws-Protective http headers, Understanding session Hijacking-Phases involves in Session Hijacking-Types of Session Hijacking-Session Hijacking Tools.

MODULE V: HACKING WIRELESS NETWORKS

Introduction to 802.11-Role of WEP-Cracking WEP Keys-Sniffing Traffic Wireless DOS Attacks-WLAN Scanners-WLAN Sniffers-Hacking Tools-Securing Wireless Network.

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Avinash.S
Second year ECE

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ASSESSMENT 1 ON ETHICAL HACKING

40/50

1. What is the primary goal of ethical hacking?

a) To cause damage and disrupt systems

b) To gain unauthorized access to systems

c) To identify and fix security vulnerabilities

d) To steal sensitive information

15/05/23

2. Which of the following is an example of passive reconnaissance in ethical hacking?

a) SQL injection

b) Port scanning

c) Social engineering

d) Network sniffing

3. Which type of testing involves assessing a system without any prior knowledge or information?

a) Black-box testing

b) White-box testing

c) Gray-box testing

d) Blue-box testing

4. What is the main difference between vulnerability assessment and penetration testing?

a) The tools used

b) The level of expertise required

c) The scope of testing

d) The time taken to complete the assessment

5. Which of the following is NOT a phase of the ethical hacking process?

a) Footprinting and reconnaissance

b) Scanning

c) Exploitation

d) Destroying data

6. A security researcher discovers a critical vulnerability in a popular web application. What is the best course of action?

a) Exploit the vulnerability to raise awareness

b) Disclose the vulnerability responsibly to the vendor

c) Sell the vulnerability on the dark web for profit

d) Keep the vulnerability a secret to maintain an advantage

7. Which of the following password-cracking techniques tries all possible character combinations to guess a password?

a) Brute-force attack

b) Dictionary attack

c) Rainbow table attack

d) Phishing attack

8. What is the purpose of a honeypot in ethical hacking?

a) To attract and detect malicious activities

b) To hide sensitive information from attackers

c) To monitor legitimate user activities

d) To encrypt data and communication

9. Which of the following is an example of a social engineering attack?

a) Cross-site scripting (XSS)

b) Distributed Denial of Service (DDoS)

c) SQL injection

d) Tailgating into a secure building

10. Which protocol is commonly used for secure remote login and file transfer?

a) HTTP

b) FTP

c) SSH

d) DNS

11. A security professional wants to test the security of a web application by simulating a malicious attack. What type of testing is this?

a) Vulnerability assessment

b) Penetration testing

c) Firewall testing

d) Compliance testing

12. What is the main purpose of using a proxy server in ethical hacking?

a) To bypass firewalls and access restricted content

b) To hide the identity of the attacker

c) To encrypt communication between the attacker and the target

d) To conduct denial-of-service attacks

13. A security analyst is performing a network scan and finds an open port 22. What service is likely running on that port?

a) HTTP

b) FTP

c) SSH

d) SMTP

14. Which phase of the ethical hacking process involves gathering information about the target system?

a) Enumeration

b) Scanning

c) Footprinting and reconnaissance

d) Exploitation

15. What is the main objective of a Distributed Denial of Service (DDoS) attack?

a) Gain unauthorized access to a system

b) Steal sensitive data from a server

c) Make a service or website unavailable to legitimate users

d) Manipulate data packets during transmission

16. Which of the following statements best defines "phishing" in the context of ethical hacking?

a) Gaining unauthorized access to a system using password-cracking techniques

b) Simulating an attack on a network to test its security measures

c) Social engineering technique to deceive users into revealing sensitive information

d) Utilizing software vulnerabilities to gain control of a remote system

17. What is the primary purpose of using encryption in communication channels?

a) To make data transmission faster

b) To hide data from network administrators

c) To secure data from unauthorized access during transmission

d) To prevent data loss in case of hardware failure

18. A security researcher finds a software vulnerability but chooses not to disclose it to the vendor or the public. What term best describes this action?

a) Responsible Disclosure

b) Full disclosure

c) White-hat hacking

d) Zero-day exploit

19. Which of the following is an example of a physical security control?

a) Antivirus software

b) Network firewall

c) Biometric access control

d) Intrusion Detection System (IDS)

20. What is the primary purpose of penetration testing?

a) To exploit vulnerabilities and gain unauthorized access

b) To assess the resilience of a system against various attacks

c) To conduct reconnaissance and gather information about the target

d) To simulate Distributed Denial of Service (DDoS) attacks

21. Which of the following statements best describes "gray-box testing" in ethical hacking?

a) The tester has full knowledge of the target system's internal workings

b) The tester has no knowledge of the target system before starting the test

c) The tester has limited knowledge of the target system, similar to a user

d) The tester is not authorized to perform any testing on the target system

22. What is the main goal of a SQL injection attack?

a) To exploit a web server's configuration vulnerabilities

b) To overload a server and crash it

c) To steal sensitive data from a database

d) To gain unauthorized access to a network

23. Which type of ethical hacker has permission to perform penetration testing on systems they do not own?

a) Black-hat hacker

b) Gray-hat hacker

c) White-hat hacker

d) Script kiddie

24. Which of the following is an example of a passive vulnerability scanner?

a) Nmap

b) Wireshark

c) Metasploit

d) Nessus

25. In ethical hacking, what is the term used for a technique that involves redirecting network traffic to a malicious server?

a) DNS poisoning

b) ARP spoofing

c) IP hijacking

d) Packet sniffing

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT/EEE/CC/2022-23/007 **Date: 17.04.2023**

CIRCULAR

The Electrical and Electronics Engineering Department of PERI IT has planned to conduct Add-on course titled "Embedded C" for II, III and IV year EEE students.

CODE:ECA011

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II/III/IV	26-04-2023 to 02-05-2023	8.30 AM to 11.45AM	12.30 PM to 03.30 PM

Coordinator **HoD/EEE**

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2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

TIME TABLE

Course Code: EA011

Course Name: Embedded C

S.No	DATE	HOURS	TOPIC
1	26.04.2023	1st-8th	Overview of design thinking principles, Introduction to the double diamond design process, Understanding the role of empathy in electrical design, Fundamentals of electrical engineering concepts
2	27.04.2023	1st-8th	Techniques for empathizing with end-users in electrical design contexts, Methods for defining design challenges and problem statements, Case studies and exercises focusing on user-centered design in electrical engineering
3	28.04.2023	1st-8th	Creative brainstorming techniques for generating electrical design concepts, Rapid prototyping methods for exploring and testing ideas, Tools and resources for creating prototypes in electrical engineering
4	29.04.2023	1st-8th	Strategies for gathering feedback from users and stakeholders, Techniques for evaluating and iterating on electrical design prototypes, Importance of iteration and refinement in the design process, Case studies and real-world examples of successful iteration in electrical design projects
5	02.05.2022	1st-8th	Integration of user feedback and design improvements into final electrical design solutions, Principles of system integration and optimization in electrical engineering, Ethical considerations and sustainability in electrical design

Coordinator

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

II - EEE

S. No	Register Number	Student Name
1.	411521105001	Ashish J
2.	411521105002	Bubesh S
3.	411521105004	Divya R
4.	411521105006	Kamalavendhan S
5.	411521105007	Kaviya M
6.	411521105008	Keerthika V
7.	411521105009	Likhitha J
8.	411521105011	Murali S
9.	411521105012	Nikitha N
10.	411521105013	Nisha B
11.	411521105015	Pothigachalam U
12.	411521105017	Priyanka M
13.	411521105018	Sabitha S
14.	411521105019	Samy K
15.	411521105020	Saravanan K
16.	411521105021	Shasidharan K
17.	411521105022	Sivaraj R
18.	411521105023	Thivya S
19.	411521105024	Varunraj G
20.	411521105025	Vinayaga Moorthy M
21.	411521105301	Balaji E
22.	411521105302	Gokul R
23.	411521105303	Illayabharathi E
24.	411521105304	JaiSankar D
25.	411521105305	Kamaraj K
26.	411521105306	Karthik Priya kumar D
27.	411521105307	Nagarjun S
28.	411521105308	Naveen N
29.	411521105309	Rohit A
30.	411521105310	Rupesh P
31.	411521105311	Sandhanakrishnan B
32.	411521105312	Sethuraman A

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

III - EEE

S. No	Register Number	Student Name
1.	411520105001	Arunachalam R L
2.	411520105003	Chandru S
3.	411520105004	Janarthanan K
4.	411520105005	Jayanth D
5.	411520105006	Keerthana V
6.	411520105007	Krishnakumar R
7.	411520105008	Nitheesh A
8.	411520105009	Pavithra C
9.	411520105010	Poovarasan A
10.	411520105011	Praveenkumar A
11.	411520105012	Rajkumar R
12.	411520105013	Ramya S
13.	411520105014	Saravanan E
14.	411520105015	Sivaramakrishnan R
15.	411520105016	Srikanth G
16.	411520105017	Vigneshwaran G
17.	411520105018	Yuvashree M
18.	411520105301	Abishek Samuel B
19.	411520105302	Anuramabarathi S
20.	411520105304	Dinesh Kumar P
21.	411520105307	Gokul S
22.	411520105308	Hariharan S
23.	411520105309	Harish P
24.	411520105310	Harish R
25.	411520105311	Jancy Reena P
26.	411520105312	Jayanthan S
27.	411520105313	Kavikumar M
28.	411520105314	Kingslin A
29.	411520105315	Mariyakalai P
30.	411520105316	Mohan R
31.	411520105319	Nivetha S
32.	411520105320	Poovarasan M
33.	411520105321	Prasanth K
34.	411520105323	Rajesh S
35.	411520105324	Sarvesh S
36.	411520105326	Sowndarya S
37.	411520105327	Sridharan P
38.	411520105328	Srinath K
39.	411520105329	Sumithra S
40.	411520105330	Suresh M

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

IV – EEE

S. No	Register Number	Student Name
1.	411519105001	Abimanyu S
2.	411519105002	Archanajenifer C
3.	411519105003	Balaji S
4.	411519105005	Durairaj M
5.	411519105006	Hariharan R
6.	411519105007	Iyappan P
7.	411519105008	Ponnarasi K
8.	411519105009	Savitha R
9.	411519105010	Surya P
10.	411519105011	Vinothkumar M
11.	411519105301	Dinesh Kumar V
12.	411519105303	Prakash V

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

Attendance

Course Code: EA011

Course Name: Embedded C

S. No	Register Number	Name of the Student	Date				
			26.04.2022	27.04.2022	28.04.2022	29.04.2022	02.05.2022
II - EEE							
1.	411521105001	Ashish J					
2.	411521105002	Bubesh S					
3.	411521105004	Divya R					
4.	411521105006	Kamalavendhan S					
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8.	411521105011	Murali S					
9.	411521105012	Nikitha N					
10.	411521105013	Nisha B					
11.	411521105015	Pothigachalam U					
12.	411521105017	Priyanka M					
13.	411521105018	Sabitha S					
14.	411521105019	Samy K					
15.	411521105020	Saravanan K					
16.	411521105021	Shasidharan K					

17.	411521105022	Sivaraj R					
18.	411521105023	Thivya S					
19.	411521105024	Varunraj G					
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29.	411521105309	Rohit A					
30.	411521105310	Rupesh P					
31.	411521105311	Sandhanakrishnan B					
32.	411521105312	Sethuraman A					
III - EEE							
1.	411520105001	Arunachalam R L					
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38.	411520105328	Srinath K					
39.	411520105329	Sumithra S					
40.	411520105330	Suresh M					
41.	411520105331	Thirsha M					
42.	411520105332	Thomas Richard M					
43.	411520105333	Varshini R					
44.	411520105334	Velu P					
45.	411520105335	Venkatesh M					
IV - EEE							
1.	411519105001	Abimanyu S					
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7.	411519105008	Ponnarasi K					
8.	411519105009	Savitha R					
9.	411519105010	Surya P					
10.	411519105011	Vinothkumar M					
11.	411519105301	Dinesh Kumar V					
12.	411519105303	Prakash V					

Coordinator

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

SYLLABUS

MODULE 1: INTRODUCTION TO EMBEDDED SYSTEMS

Definition and characteristics of embedded systems, Overview of embedded system architecture, Importance of programming languages in embedded systems development, Basics of C Programming

MODULE 2: INTRODUCTION TO C PROGRAMMING LANGUAGE

Variables, data types, and operators, Control structures: if, else, switch, loops, Arrays and strings, Functions and modular programming,

MODULE 3: EMBEDDED C PROGRAMMING

Differences between standard C and embedded C, Accessing hardware peripherals, Bit manipulation and bitwise operators, Interrupt handling and event-driven programming,

MODULE 4: MEMORY MANAGEMENT

Memory types in embedded systems (ROM, RAM, flash memory), Pointers and dynamic memory allocation, Memory-mapped I/O

MODULE 5: DEBUGGING AND TESTING

Tools for debugging embedded C code, Testing methodologies for embedded systems, Real-time debugging techniques

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THIYYA.S

II - CSE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment

Course Code : EA011
Course Name: Embedded C

24 | 25

1. Embedded system is designed to
   a) Execute single program repeatedly
   b) Execute many programs
   c) Both of the above
   d) None of the above

2. Embedded system is
   a) Reactive
   b) Real Time
   c) Proactive
   d) Reactive & Real Time

Raji
2/5/23

3. Software written for embedded system is called
   a) Embedded Software
   b) System program
   c) Operating system
   d) Program

4. Embedded system has
   a) Response time constraints
   b) Strict deadlines
   c) Turnaround time
   d) Response time

5. Assembly code embedded within C programs is called
   a) Inline assembly code Data visualization
   b) External assembly code
   c) External assembly code
   d) Standard Assembly Code

6. Embedded C requires compilers to create files to be downloaded to the
   a) Microcontrollers bar
   b) Microprocessors
   c) Operating system
   d) Microcontrollers & microprocessors

7. Embedded C is used for?
   a) Microcontrollers
   b) Desktop computers
   c) Laptops
   d) Audio system

8. Which software resides only in read only memory and is used to control products and systems for the consumer and industrial markets.
   a) Business
   b) System
   c) Embedded
   d) Personal

9. It is a characteristic provision of some debuggers to stop the execution after each instruction because title() method
   a) It facilitates to analyze or vary the contents of memory and register
   b) It facilitates to move the break point to a later point
   c) It facilitates to rerun the program
   d) It facilitates to load the object code program to system memory

10. Which component is replaced by an in-circuit emulator on the development board fortesting purposes?
   a) RAM
   b) I/O Ports
   c) Micro-controller IC
   d) ROM

11. It is feasible for an in-circuit emulator to terminate at the middle of the program execution so as to examine the contents of _____
   a) Memory
   b) Registers
   c) Memory & Registers
   d) Cache

12. Which operations are not feasible to perform by simulator programs in accordance to realtime programming?
   a) Memory Operations
   b) I/ O Operations
   c) Register Operations
   d) Debugging Operations

13. Which software is used to control products and systems for the consumer and industrial markets?
   a) System software
   b) Artificial intelligence software
   c) Embedded software
   d) Engineering and scientific software

14. Which system software is used to convert a "C" language program in tolanguage of another processor?
   a) Compiler
   b) Linker
   c) Cross Linker
   d) Cross Compiler

15. Which memory storage is widely used in PCs and Embedded Systems?
   a) EEPROM
   b) Flash memory
   c) DRAM
   d) SRAM

16. How is the protection and security for an embedded system made?
   a) Security chips
   b) Memory disk security
   c) IPR
   d) OTP

17. Which type of memory is suitable for low volume production of embedded systems?
   a) Non-volatile
   b) RAM
   c) Volatile
   d) ROM

18. Which level simulates the algorithms that are used within the embedded systems?
    a) Algorithmic level
    b) Switch level
    c) Gate level
    d) Circuit level

19. How an embedded system communicate with the outside world?
    a) Memory
    b) Peripherals
    c) Output
    d) Input

20. What does MESI stand for?
    a) Modified exclusive system input
    b) Modifies embedded shared invalid
    c) Modified exclusive shared invalid
    d) Modified exclusive stale invalid

21. What does ICE stand for?
    a) In-circuit EPOM
    b) In-code emulation
    c) In-circuit emulation
    d) In-code EPROM

22. Which is the single device capable of providing prototyping support for a range of microcontroller?
    a) Umbrella device
    b) OTP
    c) RAM
    d) ROM

23. What does PCM stand for?
    a) Peculiar Code Modulation
    b) Pulse Codec Machine
    c) Pulse Code Modulation
    d) Peripheral Code Machine

24. Which of the following is a part of RTOS kernel?
    a) Register
    b) ISR
    c) memory
    d) Input

25. What limits the amount of virtual memory in Windows 3.1?
    a) Static file
    b) Dynamic file
    c) Nature of swap file
    d) Size of the swap file

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /MECH /Add-On Course/2022-2023/01 **Date: 10.01.2023**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct Add-on course titled "**MODELING FOR DESIGN ENGINEERS**" for the Academic year of 2022 – 2023 for IV year Mech students.

CODE:MEA007

Sl. No	Year	Scheduled Date	Session 1	Session 2
1	IV	25.02.2023-08.04.2023	8.30 AM to 11.45AM	12.30PM to 2.00PM

Co-ordinator

Head of the Department

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

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3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEA007 **Year/Semester:IV/VIII**

Course Name: Modeling for Design Engineers **Session: FN & AN**

Sl. No	DATE	HOURS	TOPICS
1	25.02.2023	2	Solid work documentation tip. Default template unit selection, Navigating the solid works interface, Customizing the command
2	25.02.2023	2	Changing interface colors Customizing strategies Toolbars, Menus, Background colors or images, Saving custom interface setting, Working with multiple document windows, Copying the existing settings
3	04.03.2023	3	Working with sketches Simple sketch, 3Dsketch, Dimensioning, Dimension, Properties, Dimension (Angles), Structure of splines, Offset, Mirror, Point sketch, Trim, Interface, Polygon creation, Ellipse, Partial ellipse. Parabola, Linear pattern, Circular Pattern, Modifying
4	04.03.2023	2	Dimension relation toolbar Smart dimension. Horizontal Dimensions. Chamfer dimension
5	18.03.2023	2	Working with Reference Geometries Creating Planes, Working with axis. Using Coordinate system, Using point as reference. Geometry.
6	18.03.2023	3	Creating simple parts Bottle example. Extrude feature option, Cut extrude. Thin feature panel, Using instant 3D, Making first extrude feature, Cutting a slot, Hole using 2D versus 3D sketches, Fillets and champers
7	25.03.2023	3	Using visualization Techniques Manipulating the view, Using arrow keys. Using mouse gestures, Using the view toolbar, Wireframe. Hidden lines visible. Shaded with edges, 3D Drawing view, Zebra strips, Annotation views, Applying appearance , Using Display Status
8	25.03.2023	3	Functions Copying and moving sketch, entities, Move entities, Rotate entities, Copy entities, Scale entities. Modify sketch. Derived sketch.
9	25.03.2023	3	Working with revolving features Getting more from your sketch. Copying and moving sketch entities, Using colors and line styles with
10	08.04.2023	3	Selecting features Working with revolving features, Controlling sweep features, Cut sweep with a solid profile
10	08.04.2023	2	Creating curve features Working with helix features, Creating projected curves, Putting together a composite curve
12	08.04.2023	2	Understanding fillet types Creating a constant radius fillet, Creating variable radius fillet

Coordinator

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Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Course Name: Modeling for Design Engineers

Course Code: MEA007 **Year/Semester: IV/VIII**

S No	Reg. No	Name
1	411519114001	G. AJITH KUMAR
2	411519114002	A. AKASH
3	411519114003	C ARUN
4	411519114004	M. FAREED
5	411519114005	K. GANESH KUMAR
6	411519114006	R HARI KRISHNAN
7	411519114007	V MITHRAN
8	411519114008	M. MOHAMMED RAZOOL
9	411519114009	S. MUGUNTHARAJ
10	411519114010	M.T. NAVEEN
11	411519114011	S NEELAGANDAN
12	411519114012	T PRADEEP RAJ
13	411519114013	A. RAJ
14	411519114015	G SABARI VASAN
15	411519114016	A SANDEESH KUMAR

S No	Reg No	Name
16	411519114018	V. SATHISH
17	411519114019	K. SATHISH KUMAR
18	411519114020	S SELVINRAJ
19	411519114021	V. SIVAKUMAR
20	411519114022	B SURYA NARAYANAN
21	411519114023	M THAHA MOHAMED
22	411519114301	S ABDUL RAJACQ
23	411519114302	AJAY MATHEW
24	411519114303	MATHAN
25	411519114305	S NAGACHARAN
26	411519114306	P. SARAVANAKUMAR.
27	411519114307	N. SUNIL.
28	411519114308	TAMILARASAN
29	411519114309	VALLARASU
30	411519114310	SHYAM KUMAR

Coordinator

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HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
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PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2022-2023
Attendance Sheet
Course Name: Modeling for Design Engineers

Course Code: MEA007 **Year/Semester: II/IV**

Sl. No	Registration Number	Student Name	25.02.23	04.03.23	18.03.23	25.03.23	08.04.23
1	411519114001	G. AJITH KUMAR					
2	411519114002	A. AKASH					
3	411519114003	C ARUN					
4	411519114004	M. FAREED					
5	411519114005	K. GANESH KUMAR					
6	411519114006	R HARI KRISHNAN					
7	411519114007	V MITHRAN					
8	411519114008	M. MOHAMMED RAZOOL					
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10	411519114010	M.T. NAVEEN					
11	411519114011	S NEELAGANDAN					
12	411519114012	T PRADEEP RAJ					
13	411519114013	A. RAJ					
14	411519114015	G SABARI VASAN					
15	411519114016	A SANDEESH KUMAR					

Sl. No	Registration Number	Student Name	25.02.23	04.03.23	18.03.23	25.03.23	08.04.23
16	411519114018	V. SATHISH					
17	411519114019	K. SATHISH KUMAR					
18	411519114020	S SELVINRAJ					
19	411519114021	V. SIVAKUMAR					
20	411519114022	B SURYA NARAYANAN					
21	411519114023	M THAHA MOHAMED					
22	411519114301	S ABDUL RAJACQ					
23	411519114302	AJAY MATHEW					
24	411519114303	MATHAN					
25	411519114305	S NAGACHARAN					
26	411519114306	P. SARAVANAKUMAR.					
27	411519114307	N. SUNIL.					
28	411519114308	TAMILARASAN					
29	411519114309	VALLARASU					
30	411519114310	SHYAM KUMAR					

Coordinator

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HOD/MECH

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

Course Code and Name: MEA007- MODELING FOR DESIGN ENGINEERS

SYLLABUS

S. No	Module type	Topics	Hours
1	Software training	Solid work documentation tip, Default template unit selection, Navigating the solid works interface, Customizing the command manager, The Menu Bar toolbar and menu	8
2	Software training	Changing interface colors Customizing strategies Toolbars, Menus, Background colors or images Saving custom interface setting Working with multiple document windows Copying the existing setting	8
3	Software training	Working with sketches Simple sketch,3Dsketch,Dimensioning,Dimension Properties, Dimension (Angles),Structure of splines, Offset, Mirror, Point sketch, Trim Interface, Polygon creation, Ellipse, Partial ellipse, Parabola, Linear pattern, Circular Pattern, Modifying sketch, Slot sketch entities	7
4	Software training	Dimension relation toolbar Smart dimension, Horizontal Dimensions, Chamfer dimension	7

Coordinator

HOD/MECH

78/100

Satyavathy

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Tamilarasan
II yr / 4th sem
08/04/23

Assessment Test

MEA007 Modeling for Design Engineers

1. What is the primary purpose of a CAD (Computer-Aided Design) system?
   - A) To execute complex mathematical calculations
   - B) To create detailed 2D and 3D models
   - C) To manage project timelines
   - D) To store financial data

2. Which software is commonly used for 3D modeling in mechanical engineering?
   - A) Adobe Photoshop
   - B) AutoCAD
   - C) MATLAB
   - D) Microsoft Excel

3. What does FEA stand for in engineering analysis?
   - A) Finite Element Analysis
   - B) Fast Energy Application
   - C) Functional Engineering Algorithm
   - D) Finite Energy Approximation

4. Which of the following is NOT a type of CAD modeling?
   - A) Wireframe modeling
   - B) Solid modeling
   - C) Surface modeling
   - D) Binary modeling

5. In FEA, what is the purpose of meshing?
   - A) To define material properties
   - B) To divide the model into smaller, solvable parts
   - C) To apply boundary conditions
   - D) To create a visual representation

6. What is the primary advantage of parametric modeling?
   - A) It uses less memory
   - B) It allows easy modifications by changing parameters
   - C) It requires no prior design knowledge
   - D) It is always faster than other methods

7. Which term describes the process of creating a physical object from a digital model using additive processes?
   - A) CNC Machining
   - B) 3D Printing
   - C) Subtractive Manufacturing
   - D) Injection Molding

8. What is the primary purpose of using simulations in design engineering?
   - A) To reduce the cost of physical prototypes
   - B) To create artistic renderings
   - C) To compile engineering reports
   - D) To conduct market analysis

9. Which feature in CAD software helps in visualizing the internal structure of a 3D model?
   - A) Shading
   - B) Section view
   - C) Texture mapping
   - D) Exploded view

10. What is a key benefit of using cloud-based CAD tools?
    - A) Enhanced local storage
    - B) Improved collaboration and access from anywhere
    - C) Requirement of advanced hardware
    - D) Increased complexity in use

11. Which type of analysis would be used to determine the natural frequencies of a structure?
    - A) Static analysis
    - B) Modal analysis
    - C) Thermal analysis
    - D) Fatigue analysis

12. What is the role of constraints in parametric modeling?
    - A) To define the color of the model
    - B) To control the geometric relationships and dimensions
    - C) To store user data
    - D) To manage file permissions

13. In which phase of product design is reverse engineering most likely used?
    - A) Concept development
    - B) Detailed design
    - C) Prototyping
    - D) Post-production analysis

14. What does the term 'degrees of freedom' refer to in the context of kinematic analysis?
    - A) The temperature range of a material
    - B) The number of independent movements allowed
    - C) The budget flexibility for a project
    - D) The speed of computation

15. Which file format is widely used for sharing CAD models while preserving design intent and parametric information?
    - A) .jpg
    - B) .stl
    - C) .step
    - D) .pdf

16. What does the term 'boundary conditions' refer to in FEA?
    - A) The conditions at the edges of the simulation domain
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    - D) The software license limitations

17. Which of the following is a common application of CFD (Computational Fluid Dynamics)?
    - A) Stress analysis in beams
    - B) Thermal analysis in engines
    - C) Fluid flow analysis in pipelines
    - D) Electrical circuit design

18. What is the purpose of using a bill of materials (BOM) in design engineering?
    - A) To list all software tools used
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19. Which of the following is a primary function of PLM (Product Lifecycle Management) software?
    - A) 3D rendering
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84/100

Symmetry

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment Test

Name: A. Raj

Reg No: 411519114015

Year: II/IV

Date: 08.04.23

MEA007 Modeling for Design Engineers

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

V. Sathish
411519114018
08.04.23

Assessment Test

MEA007 Modeling for Design Engineers

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /MECH /Add-On Course/2022-2023/02 **Date: 10.01.2023**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct Add-on course titled "**SMALL UNMANNED AERIAL VEHICLE-DRONES**" for the Academic Year of 2022 – 2023 for III year Mech students.

CODE: MEA011

Sl. No.	Year	Scheduled Date	Session 1	Session 2
1	III	25.02.2023 -01.04.2023	8.30 AM to 11.45AM	12.30PM to3.30PM

Co-ordinator 10/1/23

Head of the Department 10/1/23

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEA011 **Year/Semester: III/VI**

Course Name: Small Unmanned Aerial Vehicle-Drones **Session: FN & AN**

Sl. No	DATE	HOURS	TOPIC
1	25.02.2023	1st-6th	History of Small UAV —classification — Introduction to Small Unmanned Aircraft Systems--models and prototypes — System Composition-applications
2	04.03.2023	1st-6th	Introduction to Design and Selection of the System-Aerodynamics and Airframe Configurations-Characteristics of Aircraft Types- Design Standards and Regulatory Aspects-control surfaces-specifications.
3	18.03.2023	1st-6th	Autopilot AGL-pressure sensors-servos-accelerometer gyros-actuators- power supply-processor, integration, installation, configuration, and testing
4	25.03.2023	1st-6th	Payloads-Telemetry-tracking-Aerial photography-controls-PID feedback-radio control Frequency range —modems-memory system-simulation-ground test-analysis-trouble shooting
5	01.04.2023	1st-6th	Waypoints navigation-ground control software- System Ground Testing- System In-flight Testing- Future Prospects and Challenges-Case Studies — Mini and Micro UAVs.

Coordinator

HOD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Course Name - SMALL UNMANNED AERIAL VEHICLE-DRONES

Course Code: MEA011

Year/Semester: III/VI

S NO	REG NO	NAME
1	411520114001	ABINESH N R
2	411520114002	DHARANI DHARAN P
3	411520114003	DHARANI VARAN T
4	411520114004	GOWTHAM K
5	411520114005	KARTHIK N
6	411520114006	MOHAMMED KANNI A
7	411520114007	NITHYANANDHAM S
8	411520114008	PUVIRASAN
9	411520114009	RAJESH G
10	411520114010	RITHWIK E B
11	411520114011	ROOBAN DHARMARAJ K
12	411520114012	SANTHOSH KUMAR R
13	411520114013	SARANRAJ S
14	411520114014	SATHISH M
15	411520114015	SRIDHARAN S
16	411520114016	SUGADEV V
17	411520114017	TAMIL SELVAN C
18	411520114018	TAMILSELVAN V
19	411520114301	AJITH S

S NO	REG NO	NAME
20	411520114303	ARINARAYANAN P
21	411520114304	ARJUN K
22	411520114305	BALA ASHWIN D
23	411520114306	BALACHANDAR S
24	411520114307	BALAMURUGAN P
25	411520114308	DEEPAK R
26	411520114309	GEETHAPRIYAN M G
27	411520114310	GOKULRAJ R
28	411520114311	GOWTHAM P
29	411520114312	JOSHUA A
30	411520114313	JOSHUA DANIEL M
31	411520114314	KISHORE B
32	411520114316	MANIKANDAN S
33	411520114317	MUKESH R
34	411520114321	PRASANTH M
35	411520114322	PRATHIBAN T
36	411520114338	VETRIMURUGAN S
37	411520114341	ANAND JOTHI

Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Attendance Sheet

Course Name: Small Unmanned Aerial Vehicle-Drones

Course Code: MEA011

Year/Semester: III/VI

Sl. No	Registration Number	Student Name	25.02.23	04.03.23	18.03.23	25.03.23	01.04.23
1	411520114001	ABINESH N R					
2	411520114002	DHARANI DHARAN P					
3	411520114003	DHARANI VARAN T					
4	411520114004	GOWTHAM K					
5	411520114005	KARTHIK N					
6	411520114006	MOHAMMED KANNI A					
7	411520114007	NITHYANANDHAM S					
8	411520114008	PUVIRASAN					
9	411520114009	RAJESH G					
10	411520114010	RITHWIK E B					
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13	411520114013	SARANRAJ S					
14	411520114014	SATHISH M					
15	411520114015	SRIDHARAN S					
16	411520114016	SUGADEV V					
17	411520114017	TAMIL SELVAN C					
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19	411520114301	AJITH S					
20	411520114303	ARINARAYANAN P					

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DEPARTMENT OF MECHANICAL ENGINEERING

MEA011- SMALL UNMANNED AERIAL VEHICLE-DRONES

SYLLABUS

Module I: INTRODUCTION TO SMALL UAV

History of Small UAV —classification — Introduction to Small Unmanned Aircraft Systems--models and prototypes — System Composition-applications

Module II: THE DESIGN OF SMALL UAV SYSTEMS

Introduction to Design and Selection of the System - Aerodynamics and Airframe Configurations- Characteristics of Aircraft Types- Design Standards and Regulatory Aspects-control surfaces-specifications.

Module III: AVIONICS HARDWARE

Autopilot AGL-pressure sensors-servos-accelerometer gyros-actuators- power supply-processor, integration, installation, configuration, and testing

Module IV: COMMUNICATION PAYLOADS AND CONTROLS

Payloads-Telemetry-tracking-Aerial photography-controls-PID feedback-radio control. Frequency range — modems-memory system-simulation-ground test-analysis-trouble shooting

Module V: THE DEVELOPMENT OF SMALL UAV SYSTEMS

Waypoints navigation-ground control software- System Ground Testing- System In-flight Testing- Future Prospects and Challenges-Case Studies — Mini and Micro UAVs.

Coordinator

HOD/MECH

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K. Gowtham
411520114004
1/4/23

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment Test

MEA011 - Small Unmanned Aerial Vehicle-Drones

82/100

1/4/23

1. What does UAV stand for?

A) Unmanned Aerial Vehicle
B) Underwater Autonomous Vehicle
C) Unidentified Aerial Vehicle
D) Unmanned Automotive Vehicle

2. Which of the following is a common use for small UAVs?

A) Deep-sea exploration
B) Agricultural monitoring
C) Space travel
D) Road construction

3. What is the primary benefit of using drones in agriculture?

A) Increased fuel consumption
B) Enhanced pest control
C) Detailed aerial imaging and data collection
D) Reduced need for manual labor

4. What component is essential for a UAV to maintain stable flight?

A) Propeller
B) GPS
C) Gyroscope
D) Battery

5. In the context of drones, what is FPV?

A) First Person View
B) Flight Performance Verification
C) Fixed Position View
D) Full Power Vision

6. Which type of motor is commonly used in small UAVs?

A) Internal combustion engine
B) Stepper motor
C) Brushless DC motor
D) Hydraulic motor

7. What does GPS stand for, which is crucial for UAV navigation?

A) General Positioning System
B) Global Positioning System
C) Ground Positioning System
D) Geographic Positioning System

8. What is the typical power source for small UAVs?

A) Solar cells
B) Lithium-polymer (LiPo) batteries
C) Diesel fuel
D) Hydrogen fuel cells

9. Which regulatory body oversees UAV operations in the United States?

A) FAA (Federal Aviation Administration)
B) FCC (Federal Communications Commission)
C) DOT (Department of Transportation)
D) NTSB (National Transportation Safety Board)

10. What is a quadcopter?

A) A UAV with four rotors
B) A UAV with a camera
C) A UAV that can only fly in circles
D) A UAV with four cameras

11. Which sensor is commonly used for obstacle avoidance in drones?

A) Lidar
B) Barometer
C) Hygrometer
D) Odometer

12. Which term refers to the return of a drone to its starting point?

A) Auto-landing
B) Return to Home (RTH)
C) Homecoming
D) Autopilot

13. What does BVLOS stand for in drone operations?

A) Below Visible Light Operational Spectrum
B) Beyond Visual Line of Sight
C) Between Variable Light of Sun
D) Behind Visible Light on Screen

14. What is geofencing in the context of UAVs?

A) Establishing a virtual boundary for drone operation
B) Creating physical barriers to protect drones
C) Mapping geographical locations with drones
D) Tracking the movement of drones in real-time

15. Which of the following materials is commonly used to construct lightweight UAV frames?

A) Steel
B) Aluminum
C) Carbon fiber
D) Copper

16. What is the primary advantage of using a fixed-wing UAV over a multirotor UAV?

A) Easier to operate
B) Ability to hover
C) Longer flight duration
D) Better at vertical takeoff and landing

17. What is the function of an ESC (Electronic Speed Controller) in a drone?

A) Control the flight path
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C) Provide GPS data
D) Control the camera gimbal

18. What is a common application of thermal cameras on UAVs?

A) Capturing high-resolution photos
B) Conducting search and rescue operations
C) Filming sports events
D) Mapping terrain

19. Which of the following is NOT a part of a UAV's ground control station?

A) Monitor
B) Controller
C) Propeller
D) Antenna

20. What is the typical maximum altitude for recreational drone flights in many countries?

A) 50 feet
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A) GPS Hold
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22. What does VLOS stand for in drone terminology?

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24. Which flight mode allows a UAV to maintain a constant altitude without pilot input?

A) Manual Mode
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C) Sport Mode
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25. In UAV communication, what does the term "telemetry" refer to?

A) Visual data from the camera
B) Transmission of drone data to the ground control station
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C. Tamilselvan 4115201160017 1/4/23

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment Test

MEA011 - Small Unmanned Aerial Vehicle-Drones

88/100

1. What does UAV stand for?

A) Unmanned Aerial Vehicle
B) Underwater Autonomous Vehicle
C) Unidentified Aerial Vehicle
D) Unmanned Automotive Vehicle

2. Which of the following is a common use for small UAVs?

A) Deep-sea exploration
B) Agricultural monitoring
C) Space travel
D) Road construction

3. What is the primary benefit of using drones in agriculture?

A) Increased fuel consumption
B) Enhanced pest control
C) Detailed aerial imaging and data collection
D) Reduced need for manual labor

4. What component is essential for a UAV to maintain stable flight?

A) Propeller
B) GPS
C) Gyroscope
D) Battery

5. In the context of drones, what is FPV?

A) First Person View
B) Flight Performance Verification
C) Fixed Position View
D) Full Power Vision

6. Which type of motor is commonly used in small UAVs?

A) Internal combustion engine
B) Stepper motor
C) Brushless DC motor
D) Hydraulic motor

7. What does GPS stand for, which is crucial for UAV navigation?

A) General Positioning System
B) Global Positioning System
C) Ground Positioning System
D) Geographic Positioning System

8. What is the typical power source for small UAVs?

A) Solar cells
B) Lithium-polymer (LiPo) batteries
C) Diesel fuel
D) Hydrogen fuel cells

9. Which regulatory body oversees UAV operations in the United States?

A) FAA (Federal Aviation Administration)
B) FCC (Federal Communications Commission)
C) DOT (Department of Transportation)
D) NTSB (National Transportation Safety Board)

10. What is a quadcopter?

A) A UAV with four rotors
B) A UAV with a camera
C) A UAV that can only fly in circles
D) A UAV with four cameras

11. Which sensor is commonly used for obstacle avoidance in drones?

A) Lidar
B) Barometer
C) Hygrometer
D) Odometer

12. Which term refers to the return of a drone to its starting point?

A) Auto-landing
B) Return to Home (RTH)
C) Homecoming
D) Autopilot

13. What does BVLOS stand for in drone operations?

A) Below Visible Light Operational Spectrum
B) Beyond Visual Line of Sight
C) Between Variable Light of Sun
D) Behind Visible Light on Screen

14. What is geofencing in the context of UAVs?

A) Establishing a virtual boundary for drone operation
B) Creating physical barriers to protect drones
C) Mapping geographical locations with drones
D) Tracking the movement of drones in real-time

15. Which of the following materials is commonly used to construct lightweight UAV frames?

A) Steel
B) Aluminum
C) Carbon fiber
D) Copper

16. What is the primary advantage of using a fixed-wing UAV over a multirotor UAV?

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Joshua. A
AI1520114312
1/4/23

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment Test

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76/100

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PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Ref: PERIIT /MECH /Add-On Course/2022-23/03 **Date: 16.02.2023**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct Add-on course titled **"MODELING PRACTICE FOR AUTOMOTIVE ASSEMBLIES"** for the Academic year of 2022 – 2023 for II year Mechanical students.

CODE:MEA004

Sl. No	Year	Scheduled Date	Session 1	Session 2
1	II	04.03.2023-13.05.2023	8.30 AM to 11.45AM	12.30PM to 2.00PM

16/2/23

Co-Ordinator

16.2.23

Head of the Department

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEA004 **Year/Semester: II/IV**

Course Name: Modeling Practice for Automotive Assemblies **Session: FN & AN**

Sl. No	DATE	HOURS	TOPICS
1	04.03.2023	1st-6th	Understanding assembly theory, Creating New Assembly parts, Top Down assembly- Bottom Up assembly.
2	08.04.2023	1st-6th	Introduction to mechanisms role in assembly, importance of Degree of Freedom, Basic Physical mechanisms like 4- bar mechanism, Rack & Pinion gear, Deltoid linkage, Gear meshing.
3	29.04.2023	1st-6th	Assembly constraint status, Constraints like Coincidence, Concentric, Pin and Rigid. Exploring the dismantling method and analysis the errors in component structure.
4	06.05.2023	1st-6th	Direction allocation for explosion, Exploded line, BOM, Balloons.
5	13.05.2023	1st-6th	Rack & pinion assembly, Sun-Plant gear assembly, Differential unit assembly, Transmission system.

Coordinator

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
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PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Participants Name List

Course Name - Modeling Practice for Automotive Assemblies

Course Code: MEA004

Year/Semester: II/IV

Sl. No	Registration Number	Student Name
1	411521114001	ABINESH L
2	411521114004	AVINASH A
3	411521114005	BHARANIDHARAN D
4	411521114006	BHARATHKUMAR M
5	411521114007	BRAGADEESH K
6	411521114009	GOKUL K
7	411521114010	GURUDHARSHAN S
8	411521114012	HARISH A
9	411521114013	HARISH M
10	411521114014	JAYAKANTHAN R
11	411521114015	JAYAPRAKASH E
12	411521114016	KAVIYARASAN M
13	411521114018	LOKESH B
14	411521114020	MUKESH KUMAR P
15	411521114021	PARAMESH A
16	411521114022	PRAVEEN S
17	411521114023	PREMKUMAR P
18	411521114024	RAGUL M
19	411521114025	SANTHOSH KUMAR S
20	411521114026	SARATHKUMAR S
21	411521114027	STEPHEN RAJ M
22	411521114028	SUJEETH S.S

Sl. No	Registration Number	Student Name
23	411521114029	SURENDAR N
24	411521114030	THAMIZHARASAN
25	411521114031	THAMIZHMURASU V
26	411521114032	THIRUMURUGAN V
27	411521114034	VALLARASU
28	411521114035	VIGNESH R
29	411521114036	VIGNESHKUMAR K.G
30	411521114037	VISHNU K
31	411521114301	AMERASON R
32	411521114302	ARUN K
33	411521114303	BOOMESH
34	411521114304	DHINAKARAN M
35	411521114305	GOWTHAM G
36	411521114306	HEMANATHAN A
37	411521114307	KALIL MOHAMED IBRAHIM A
38	411521114308	KARTHICK G
39	411521114309	KARTHIKEYAN M
40	411521114310	KAVIYARASAN B
41	411521114311	KISHORE K
42	411521114312	KISHORE U
43	411521114313	KUMARESAN V

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Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2022-2023
Attendance Sheet
Course Name: Modeling Practice for Automotive Assemblies
Course Code: MEA004 **Year/Semester: II/IV**

Sl. No	Registration Number	Student Name	04.03.23	08.04.23	29.04.23	06.05.23	13.05.23
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PERI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

MEA004 -MODELING PRACTICE FOR AUTOMOTIVE ASSEMBLIES

SYLLABUS

Module I: ASSEMBLY THEORY
Understanding assembly theory Creating New Assembly parts Top Down assembly Bottom Up assembly

Module II: ASSEMBLY MECHANISM
Introduction to mechanisms role in assembly, importance of Degree of Freedom Basic Physical mechanisms like 4 bar mechanism, Rack & Pinion gear, Deltoid linkage, Gear meshing

Module III: SUB-ASSEMBLY THEORY
Listing the sub assembly components ordering the components seniority Making SAB number for each parts Location of sub assembly

Module IV: CONSTRAINT STATUS, ALIGN & MATE
Understanding Constraint theory Assembly constraint status, Constraints like Coincidence, Concentric, Pin, and Rigid

Module V: EXPLODING ASSEMBLY DESIGN
Exploring the dismantling method and analysis the errors in component structure Direction allocation for explosion, exploded line, BOM, Balloons

Module VI: DETAILING, ASSEMBLY DRAFTING DESIGN
Fourteen Geometric Characteristic Symbols, Common Modifying Symbols Used in Geometric Tolerance, Identifying the additional Symbols Used in Geometric Tolerance, Exercises Included for Practice.

Module VII: PRACTICE FOR AUTOMOTIVE ASSEMBLY
Rack & pinion assembly Sun-Plant gear assembly Differential unit assembly Transmission system

Coordinator

HOD/MECH

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Vignesh.T
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P. [signature]

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment Test

MEA004 Modeling Practice for Automotive Assemblies

1. Which software is commonly used for CAD modeling in the automotive industry?

   A) AutoCAD B) Solid Works C) MATLAB D) Blender

2. In CAD modeling, what does "CAD" stand for?

   A) Computer-Aided Design
   B) Computer-Assisted Drafting
   C) Computer-Animated Drawing
   D) Creative Architecture Design

3. What is the purpose of finite element analysis (FEA) in automotive assembly modeling?
   A) To simulate fluid dynamics
   B) To analyze stress and strain
   C) To optimize fuel efficiency
   D) To design aesthetic features

4. Which modeling technique is commonly used for simulating crash tests in automotive design?
   A) Finite element analysis
   B) Kinematic analysis
   C) Computational fluid dynamics
   D) Solid modeling

5. Which CAD feature is used to connect two components in an assembly?

   A) Extrusion B) Loft C) Mate D) Revolve

6. Which file format is commonly used for exchanging 3D CAD data between different software?

   A) .DWG B) .STL C) .IGES D) .PNG

7. Which of the following is NOT a component commonly modeled in automotive assemblies?
   A) Engine B) Wheel C) Wing D) Tailpipe

8. What is the purpose of tolerance analysis in automotive assembly modeling?

   A) To determine the cost of manufacturing
   B) To ensure parts fit together correctly
   C) To optimize aerodynamics
   D) To estimate vehicle performance

9. Which modeling technique is used to create smooth, flowing surfaces between specified curves?
   A) Fillet B) Sweep C) Loft D) Chamfer

10. Which type of material properties are typically input into FEA simulations for automotive components?

A) Mechanical B) Electrical C) Thermal D) All of the

11. What is the primary function of the suspension system in an automobile?

A) To provide stability during acceleration
B) To absorb shocks from the road
C) To increase fuel efficiency
D) To generate electrical power

12. Which CAD feature allows for the creation of a hollow component by removing material from a solid?

A) Extrude B) Shell C) Revolve D) Loft

13. Which type of analysis is commonly used to simulate airflow around a vehicle?

A) Finite element analysis B) Computational fluid dynamics
C) Kinematic analysis D) Stress analysis

14. Which material property is crucial for determining a component's ability to withstand high temperatures in an automotive engine?

A) Tensile strength B) Thermal conductivity
C) Coefficient of friction D) Young's modulus

15. Which CAD command is used to join two separate bodies into a single component?

A) Merge B) Combine C) Unite D) Attach

16. What is the role of CAM (Computer-Aided Manufacturing) in automotive assembly modeling?

A) To simulate crash tests B) To optimize fuel efficiency
C) To generate tool paths for machining D) To analyze stress and strain

17. Which CAD feature allows for the creation of a feature that blends two different shapes smoothly?

A) Fillet B) Chamfer C) Loft D) Sweep

18. Which type of analysis is used to study the motion of components within an assembly?

A) Stress analysis B) Kinematic analysis
C) Thermal analysis D) Aerodynamic analysis

19. What does "DFM" stand for in the context of automotive assembly modeling?

A) Design for Maintenance B) Design for Manufacturing
C) Dynamic Finite Modeling D) Digital Fabrication and Machining

20. Which CAD command allows for the duplication of components within an assembly?

A) Copy B) Paste C) Pattern D) Duplicate

21. Which type of fastener is commonly used to join two sheet metal components in automotive assemblies?

A) Rivet B) Bolt C) Weld D) Screw

22. Which CAD feature is used to create a beveled edge on a component?

A) Fillet B) Chamfer C) Sweep D) Loft

23. What is the primary function of the braking system in an automobile?

A) To regulate engine temperature
B) To convert kinetic energy into heat
C) To generate electrical power
D) To provide stability during acceleration

24. Which type of analysis is used to predict the behavior of a component under various loading conditions?

A) Thermal analysis
B) Aerodynamic analysis
C) Stress analysis
D) Kinematic analysis

25. Which CAD feature allows for the creation of a feature by sweeping a 2D shape along a specified path?

A) Loft B) Extrude C) Revolve D) Sweep

J. Kishore
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C) Thermal analysis D) Aerodynamic analysis

19. What does "DFM" stand for in the context of automotive assembly modeling?

A) Design for Maintenance B) Design for Manufacturing
C) Dynamic Finite Modeling D) Digital Fabrication and Machining

20. Which CAD command allows for the duplication of components within an assembly?

A) Copy B) Paste C) Pattern D) Duplicate

21. Which type of fastener is commonly used to join two sheet metal components in automotive assemblies?

A) Rivet B) Bolt C) Weld D) Screw

22. Which CAD feature is used to create a beveled edge on a component?

A) Fillet B) Chamfer C) Sweep D) Loft

23. What is the primary function of the braking system in an automobile?

A) To regulate engine temperature
B) To convert kinetic energy into heat
C) To generate electrical power
D) To provide stability during acceleration

24. Which type of analysis is used to predict the behavior of a component under various loading conditions?

A) Thermal analysis
B) Aerodynamic analysis
C) Stress analysis
D) Kinematic analysis

25. Which CAD feature allows for the creation of a feature by sweeping a 2D shape along a specified path?

A) Loft B) Extrude C) Revolve D) Sweep

Boregowda
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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment Test

MEA004 Modeling Practice for Automotive Assemblies

1. Which software is commonly used for CAD modeling in the automotive industry?

   A) AutoCAD B) Solid Works C) MATLAB D) Blender

2. In CAD modeling, what does "CAD" stand for?

   A) Computer-Aided Design
   B) Computer-Assisted Drafting
   C) Computer-Animated Drawing
   D) Creative Architecture Design

3. What is the purpose of finite element analysis (FEA) in automotive assembly modeling?
   A) To simulate fluid dynamics
   B) To analyze stress and strain
   C) To optimize fuel efficiency
   D) To design aesthetic features

4. Which modeling technique is commonly used for simulating crash tests in automotive design?
   A) Finite element analysis
   B) Kinematic analysis
   C) Computational fluid dynamics
   D) Solid modeling

5. Which CAD feature is used to connect two components in an assembly?

   A) Extrusion B) Loft C) Mate D) Revolve

6. Which file format is commonly used for exchanging 3D CAD data between different software?

   A) .DWG B) .STL C) .IGES D) .PNG

7. Which of the following is NOT a component commonly modeled in automotive assemblies?
   A) Engine B) Wheel C) Wing D) Tailpipe

8. What is the purpose of tolerance analysis in automotive assembly modeling?

   A) To determine the cost of manufacturing
   B) To ensure parts fit together correctly
   C) To optimize aerodynamics
   D) To estimate vehicle performance

9. Which modeling technique is used to create smooth, flowing surfaces between specified curves?
   A) Fillet B) Sweep C) Loft D) Chamfer

10. Which type of material properties are typically input into FEA simulations for automotive components?

A) Mechanical B) Electrical C) Thermal D) All of the

11. What is the primary function of the suspension system in an automobile?

A) To provide stability during acceleration
B) To absorb shocks from the road
C) To increase fuel efficiency
D) To generate electrical power

12. Which CAD feature allows for the creation of a hollow component by removing material from a solid?

A) Extrude B) Shell C) Revolve D) Loft

13. Which type of analysis is commonly used to simulate airflow around a vehicle?

A) Finite element analysis B) Computational fluid dynamics
C) Kinematic analysis D) Stress analysis

14. Which material property is crucial for determining a component's ability to withstand high temperatures in an automotive engine?

A) Tensile strength B) Thermal conductivity
C) Coefficient of friction D) Young's modulus

15. Which CAD command is used to join two separate bodies into a single component?

A) Merge B) Combine C) Unite D) Attach

16. What is the role of CAM (Computer-Aided Manufacturing) in automotive assembly modeling?

A) To simulate crash tests B) To optimize fuel efficiency
C) To generate tool paths for machining D) To analyze stress and strain

17. Which CAD feature allows for the creation of a feature that blends two different shapes smoothly?

A) Fillet B) Chamfer C) Loft D) Sweep

18. Which type of analysis is used to study the motion of components within an assembly?

A) Stress analysis B) Kinematic analysis
C) Thermal analysis D) Aerodynamic analysis

19. What does "DFM" stand for in the context of automotive assembly modeling?

A) Design for Maintenance B) Design for Manufacturing
C) Dynamic Finite Modeling D) Digital Fabrication and Machining

20. Which CAD command allows for the duplication of components within an assembly?

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Dr. R. PALSON KENNEDY, M.E., Ph.D.,
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INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2021-2022

PERIIT /CIVIL/Add-On-Course /2021-2022/Even/01 **Date: 03.02.2022**

CIRCULAR

Department of Civil Engineering is planned to conduct a program titled "**CC013-Building Planning Fundamentals**" for the Academic Year 2021– 2022 for CIVIL Engineering students directed to attend the program.

S.No.	Year	Scheduled Date	Session
1	II,III,IV	09.02.2022-12.02.2022	8.30a.m-3.45p.m

Co-ordinator

Head of the Department

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members – Civil
5. . Main – Notice Board

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2021-2022

ADD ON COURSE-TIME TABLE

CC013-Building Planning Fundamentals

S.No	Date	Hours	Topics
1	09.02.2022	1-8	Need for Designing Introduction to CAD/CAM/CAE Concept of Designing and Drafting Angle of projections First angle projection ,Third angle projection ,Orthographic and Isometric views , Quadrants Basic Drafting rules Introduction to AutoCAD Introduction to Autocad,COORDINATE SYSTEMS ,AUTOCAD BASICS,Polyline edit (PEdit),Array (AR) Rectangular Array (ARRAYRECT),Properties (PR) Line properties Match properties
2	10-02-2022	1-8	Multiline Edit (MLEDIT) , Cutting and Welding Multiple,Spline (SPL),Stretch (S) Lengthen (LEN),Block (B) ,Block (B) Base point Object Behavior Insert block (I) Intersection point Scale Rotation, Write block (W) Base point Object Trim (TR) Fence (F),Arc Length (DAR) Dimension Break (DIMBREAK), Diameter Dimension (DDI) M text (M) Text (T) Angle (A) Radius Dimension (DRA) M text (M) Text (T) Angle (A) Jogged Dimension (DJO) M text (M) Text (T) Angle (A) Ordinate Dimension (DOR) X datum (X) Y datum (Y) M text (M) Text (T) Angle (A)
3	11-02-2022	1-8	Dimension Break (DIMBREAK) Auto (A) Manual (M) Remove (R) Multiple (M) Dimension Space (DIMSPACE) Value (Default) Auto (A),Plan Creation Area Object (O) Add Area (A) Subtract Area (S) AutoCAD Design Center (ADC) Tool Palettes (TP) Basic room Dimensions Basic Furniture Dimensions.Elevation Section Detailing Hatch (H) Gradient(GD/GRA) Boundary(BO) ,Text (DT),Justify (J) ',Mtedit (MTED),Table Edit ,Layout (LO) Layout wizard Multi view (MVIEW) View ports (VPORTS) Viewport maximum (VPMAX) Viewport minimum (VPMIN) LAYVPI Model space (MS) Paper space (PS) Model,Tilemode (TI),Attributes (ATT) External reference (XR) Page Setup Manager Plot (Ctrl+P) Sheet set(SSM),Export(EXP) Options (OP) ,Image(IM) Imageadjust Imageattach Imageclip Imagequality Imageframe Title block creation ,Basic AutocaDD plan
4	12-02-2022	1-8	Isometric views Isoplane change Ellipse(EL) ,Isocircle, Isometric practice,3D-MODELING Introduction to AutoCAD 3d Starting three dimensional modelling in AutoCAD Use of three dimensional drawing Types of 3d models ,Creating Solid Models Polysolid Box Wedge Cone Sphere , Cylinder , Torus Pyramid , Helix Presspull Sweep Revolve

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2021-2022

ADD ON COURSE

CC013 -BUILDING PLANNING FUNDAMENTALS

STUDENTS LIST

Final Years		
S. No.	**Reg. No.**	**Name of the Students**
1	411518103001	Ananda Ganapathy Kb
2	411518103002	Kiran Kumar J S
3	411518103003	Prashanth J
4	411518103004	Praveen D
5	411518103005	Praveenkumar P
6	411518103006	Raghul R
7	411518103007	Sarath Kumar M
8	411518103008	Sree Balaji D
9	411518103009	Srikanth M
10	411518103010	Surendra Kumar K
11	411518103012	Yogeshwaran P T
12	411518103301	Guru prasath
13	411518103302	Nandeeshiwaran
Third Years		
14	411519103001	F. Aarif Ahmed
15	411519103002	Kesu Bhanu Chandra
16	411519103003	D. Gopi Anand
17	411519103004	R. Ranjith
18	411519103005	V. Sathish Kumar
19	411519103006	M. Ushananthini
20	411519103301	S. Malathi
21	411519103302	D. Vigneshwaran
Second Years		
22	411520103001	Arun K
23	411520103002	Esaivizhi E
24	411520103003	Gokulnath H
25	411520103004	Guneshdharan K

26	411520103005	Nisha C
27	411520103006	Ragul E
28	411520103007	Saravanan M
29	411520103008	Sivaraman V
30	411520103009	Swetha T
31	411520103301	Akash A
32	411520103302	Bruno Joseph Aravindraj KB
33	411520103303	Dharani dharan T
34	411520103304	Indraraj N
35	411520103305	Kamesh B
36	411520103306	Kandeeban P
37	411520103307	Kathiravan S
38	411520103308	Raghul S
39	411520103309	Ranjithkumar R
40	411520103310	Sathya J
41	411520103311	Srinath P
42	411520103312	Suvam karmakar S
43	411520103313	Vanchinathan M
44	411520103314	Venkatesh S

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Academic Year 2021 – 2022
Department of Civil Engineering
Add on Course
Building Planning Fundamentals-CC013
Attendance Sheet

S. No.	Reg. No.	Name of the Students	09.02.2022	10.02.2022	11.02.2022	12.02.2022
Final Years						
1	411518103001	Ananda Ganapathy Kb				
2	411518103002	Kiran Kumar J S				
3	411518103003	Prashanth J				
4	411518103004	Praveen D				
5	411518103005	Praveenkumar P				
6	411518103006	Raghul R				
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3	411519103003	D. Gopi Anand				
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5	411519103005	V. Sathish Kumar				
6	411519103006	M. Ushananthini				
7	411519103301	S. Malathi				
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1	411520103001	Arun K				
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3	411520103003	Gokulnath H				
4	411520103004	Guneshdharan K				
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7	411520103007	Saravanan M				
8	411520103008	Sivaraman V				
9	411520103009	Swetha T				
10	411520103301	Akash A				
11	411520103302	Bruno Joseph Aravindraj KB				
12	411520103303	Dharani dharan T				
13	411520103304	Indraraj N				
14	411520103305	Kamesh B				

15	411520103306	Kandeeban P				
16	411520103307	Kathiravan S				
17	411520103308	Raghul S				
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23	411520103314	Venkatesh S				

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2021-2022

ADD ON COURSE-SYLLABUS

CC013-Building Planning Fundamentals

Module 1

Need for Designing Introduction to CAD/CAM/CAE Concept of Designing and Drafting Angle of projections First angle projection ,Third angle projection ,Orthographic and Isometric views , Quadrants Basic Drafting rules Introduction to AutoCAD Introduction to Autocad,COORDINATE SYSTEMS ,AUTOCAD BASICS,Polyline edit (PEdit),Array (AR) Rectangular Array (ARRAYRECT),Properties (PR) Line properties Match properties

Module 2

Multiline Edit (MLEDIT) , Cutting and Welding Multiple,Spline (SPL),Stretch (S) Lengthen (LEN),Block (B) ,Block (B) Base point Object Behavior Insert block (I) Intersection point Scale Rotation, Write block (W) Base point Object Trim (TR) Fence (F),Arc Length (DAR) Dimension Break (DIMBREAK), Diameter Dimension (DDI) M text (M) Text (T) Angle (A) Radius Dimension (DRA) M text (M) Text (T) Angle (A) Jogged Dimension (DJO) M text (M) Text (T) Angle (A) Ordinate Dimension (DOR) X datum (X) Y datum (Y) M text (M) Text (T) Angle (A)

Module 3

Dimension Break (DIMBREAK) Auto (A) Manual (M) Remove (R) Multiple (M) Dimension Space (DIMSPACE) Value (Default) Auto (A),Plan Creation Area Object (O) Add Area (A) Subtract Area (S) AutoCAD Design Center (ADC) Tool Palettes (TP) Basic room Dimensions Basic Furniture Dimensions,Elevation Section Detailing Hatch (H) Gradient(GD/GRA) Boundary(BO) ,Text (DT),Justify (J) ,Mtedit (MTED),Table Edit ,Layout (LO) Layout wizard Multi view (MVIEW) View ports (VPORTS) Viewport maximum (VPMAX) Viewport minimum (VPMIN) LAYVPI Model space (MS) Paper space (PS) Model,Tilemode (TI),Attributes (ATT) External reference (XR) Page Setup Manager Plot (Ctrl+P) Sheet set(SSM),Export(EXP) Options (OP) ,Image(IM) Imageadjust Imageattach Imageclip Imagequality Imageframe Title block creation ,Basic AutocaDD plan

Module 4

Isometric views Isoplane change Ellipse(EL) ,Isocircle, Isometric practice,3D-MODELING Introduction to AutoCAD 3d Starting three dimensional modelling in AutoCAD Use of three dimensional drawing Types of 3d models ,Creating Solid Models Polysolid Box Wedge Cone Sphere , Cylinder , Torus Pyramid , Helix Presspull Sweep Revolve Loft,3D Operations ,CS icon Dynamic UCS Viewport Creating 3D Models (practice session),Material browser Assigning materials Assigning selected materials to object Basic rendering Creating new materials Default light Point light Spot light Distance light, Camera Walkthrough Motion recorder Import

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

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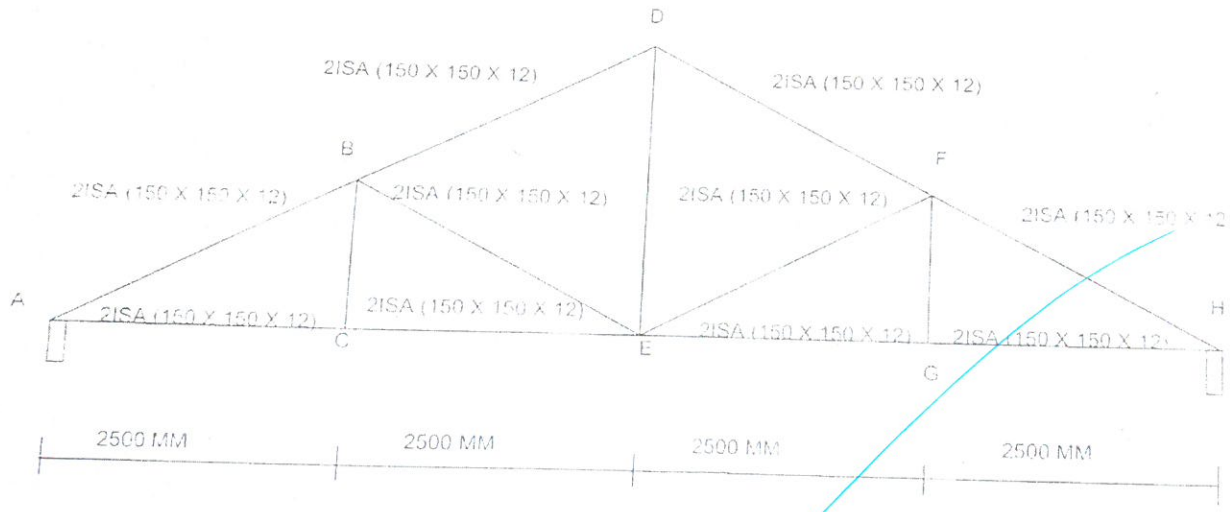
DEPARTMENT OF CIVIL ENGINEERING

CC013 BUILDING PLANNING AND FUNDAMENTALS

ASSESSMENT-1



26/30

NAME	T.SWETHA
REG. NO	411520103009
YEAR	II
DEPT	CIVIL
COURSECODE/NAME	CC013-BUILDING PLANNING AND FUNDAMENTALS
TEST DATE	12.02.2022

12/02/22

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DEPARTMENT OF CIVIL ENGINEERING
FEEDBACK FORM -ADD ON COURSES

ACADEMIC YEAR 2021-2022

Name of the Course :CC013-Building Planning Fundamentals
Name of the Student: D. Praveen.
Year / Semester : IV – 8th sem.

- Brief about the course:
  Basic building planning Autocad knowledge had been taught
- In what aspects the course content can be improved?
  By providing more plans for exercise.
- Write down the benefits you got by attending this Course
  I can plan any Individual resorts.
- Does the course have brought any change in your understanding of the subject? Mention in detail.
  Clearly taught about the building planning
- Is the course recommendable for the forth coming batch of the students?
  Yes.

D. Praveen
12/2/2022.
Signature of the student

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DEPARTMENT OF CIVIL ENGINEERING
FEEDBACK FORM -ADD ON COURSES

ACADEMIC YEAR 2021-2022

Name of the Course :CC013-Building Planning Fundamentals
Name of the Student: T. SWETHA - A11520103009
Year / Semester : II – 04

- Brief about the course:
  Basic building planning Autocad Knowledge had been taught
- In what aspects the course content can be improved?
  By providing more plans for exercise.
- Write down the benefits you got by attending this Course
  I can plan any Individual resorts.
- Does the course have brought any change in your understanding of the subject? Mention in detail.
  clearly taught about the building planning.
- Is the course recommendable for the forth coming batch of the students?
  Yes

T. Swetha
12/02/24
Signature of the student

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DEPARTMENT OF CIVIL ENGINEERING
FEEDBACK FORM -ADD ON COURSES

ACADEMIC YEAR 2021-2022

Name of the Course :CC013-Building Planning Fundamentals
Name of the Student: R. RANJITH - 411519103004
Year / Semester : IIIrd / 06

- Brief about the course:
  Basic building planning AUTOCAD knowledge had been taught.
- In what aspects the course content can be improved?
  By providing more plans for exercise.
- Write down the benefits you got by attending this Course
  I can plan any individual villa.
- Does the course have brought any change in your understanding of the subject? Mention in detail.
  In depth knowledge about building planning.
- Is the course recommendable for the forth coming batch of the students?
  Yes.

R. Ranjith. 12/02/24
Signature of the student

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

Ref: PERIIT/CSE/ 2022 ODD 01 Date: 25/01/2022

The Department of Computer Science and Engineering is organizing a training program on" Bootcamp on Build your own Virtual assistant" from 31/01/2022 (Monday) to 03/02/2022(Thursday) .

I request all the faculty members and students to attend the training program and we are expecting your coordination throughout the sessions.

Timing : 11:00AM to 03:00 PM

CODE:CS022

HOD/CSE

PRINCIPAL

Copy to:

~~THE PRINCIPAL~~
VICE PRINCIPAL
All HOD's
Students Group

CC : HOD/ECE/EEE/CSE/MECH/CIVIL

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Computer Science and Engineering

AGENDA OF EVENT

Course Code: CS022
Course Name: Add on Course on Bootcamp on Build your own Virtual assistant

Date	Session	Topic covered
DATE : **31-01-2022 to 03/02/2022** **TIME :** **11.00 AM – 03.00 PM** **MODE:** **(Online Mode-Google Meet)**	FN &AN	**Lesson 1: To Be, Or Not To Be - Doing Your Homework/Research Before You Begin**
	FN &AN	**Lesson 2: Transition - The Shift from Employee to Business Owner**
	FN &AN	**Lesson 3: Going Into Business Without Going Broke - How To Compete**
	FN &AN	**Lesson 4: Virtual Assistants - Corporate Choices**
PARTICIPATION	II & III YEAR CSE STUDENTS	

VAC Coordinator

HOD/CSE

PERI INSTITUTE OF TECHNOLOGY

COMPUTER SCIENCE AND ENGINEERING

Academic Year 2021-2022Students Name List for Bootcamp on Build your Own Virtual assistant

S.No	REG NO	NAME
1	411520104001	AARTHY K P
2	411520104002	AAYISHA K
3	411520104003	ABDUL LATHIEF AH
4	411520104004	ABIRAMI V
5	411520104012	ARUN KUMAR G
6	411520104013	ASHOKKUMAR M
7	411520104022	DINAKARAN C
8	411520104023	DINESH D
9	411520104024	DURGA V
10	411520104025	GANESH B
11	411520104038	KAMALESH B
12	411520104039	KARTHICK A
13	411520104040	KARTHICK SUBRAMANIYAN S
14	411520104041	KARUPPIAH K
15	411520104062	MURALIKRISHNAN R S
16	411520104063	MUTHAZHAGAN A
17	411520104064	MUTHUPANDI P
18	411520104077	RAVISHANKAR G
19	411520104078	RITHICK R
20	411520104086	SHARAN G
21	411520104091	SOWMIYA B
22	411520104092	SRIKANTH R
23	411520104100	VARSHINI V
24	411520104101	VELMURUGAN D
25	411520104102	VENKATESH S
26	411520104104	VIJAYA HARSHITHA
27	411520104105	VIJAYAKUMAR D
28	411520104106	VISHNU B
29	411520104107	VISHVA B
30	411519104001	G.AKASH
31	411519104002	G.ALTHAFKHAN
32	411519104003	S.ANSULJAFERA
33	411519104004	G.ARULMANI
34	411519104005	J.AUGUSTINRAJA
35	411519104006	M.AYESHAMUNAWAR
36	411519104007	P.BABYSWETHA
37	411519104008	L.BLESSYEVANGLIN
38	411519104009	C.CHITRA
39	411519104001	G.AKASH
40	411519104002	G.ALTHAFKHAN
41	411519104003	S.ANSULJAFERA

42	411519104004	G.ARULMANI
43	411519104005	J.AUGUSTINRAJA
44	411519104006	M.AYESHAMUNAWAR
45	411519104007	P.BABYSWETHA
46	411519104008	L.BLESSYEVANGLIN
47	411519104009	C.CHITRA
48	411519104025	HARIHARAN
49	411520104015	ASHWINTH KK
50	411520104016	ATCHAYAR
51	411520104017	BRINDHA M
52	411520104018	CALEB J
53	411520104019	CHANDRAGUPTAN T
54	411520104020	DHAMODHARAN SK
55	411520104021	DHANASEHWAC R
56	411519104024	S. HARIHARAN

HOD-CSE

PERI INSTITUTE OF TECHNOLOGY

COMPUTER SCIENCE AND ENGINEERING

II & III YEAR CSE

Attendance Sheet for Boot Camp on Build your Own Vitual Assistant

S.No	REG NO	NAME	31/01	01/02	02/02	03/02
1	411520104001	AARTHY K P				AB
2	411520104002	AAYISHA K				
3	411520104003	ABDUL LATHIEF AH				
4	411520104004	ABIRAMI V				
5	411520104012	ARUN KUMAR G				
6	411520104013	ASHOKKUMAR M				
7	411520104022	DINAKARAN C				
8	411520104023	DINESH D				
9	411520104024	DURGA V				
10	411520104025	GANESH B				
11	411520104038	KAMALESH B				
12	411520104039	KARTHICK A				
13	411520104040	KARTHICK SUBRAMANIYAN S				
14	411520104041	KARUPPIAH K				
15	411520104062	MURALIKRISHNAN R S		AB		
16	411520104063	MUTHAZHAGAN A				
17	411520104064	MUTHUPANDI P				
18	411520104077	RAVISHANKAR G				
19	411520104078	RITHICK R				
20	411520104086	SHARAN G				
21	411520104091	SOWMIYA B				
22	411520104092	SRIKANTH R				
23	411520104100	VARSHINI V				
24	411520104101	VELMURUGAN D				
25	411520104102	VENKATESH S				
26	411520104104	VIJAYA HARSHITHA				
27	411520104105	VIJAYAKUMAR D				
28	411520104106	VISHNU B				
29	411520104107	VISHVA B	AB			
30	411519104001	G.AKASH				
31	411519104002	G.ALTHAFKHAN				
32	411519104003	S.ANSULJAFERA				
33	411519104004	G.ARULMANI				
34	411519104005	J.AUGUSTINRAJA				
35	411519104006	M.AYESHAMUNAWAR				
36	411519104007	P.BABYSWETHA				
37	411519104008	L.BLESSYEVANGLIN				
38	411519104009	C.CHITRA				
39	411519104001	G.AKASH				
40	411519104002	G.ALTHAFKHAN				
41	411519104003	S.ANSULJAFERA				

42	411519104004	G.ARULMANI
43	411519104005	J.AUGUSTINRAJA
44	411519104006	M.AYESHAMUNAWAR
45	411519104007	P.BABYSWETHA
46	411519104008	L.BLESSYEVANGLIN
47	411519104009	C.CHITRA
48	411519104025	HARIHARAN
49	411520104015	ASHWINTH KK
50	411520104016	ATCHAYAR
51	411520104017	BRINDHA M
52	411520104018	CALEB J
53	411520104019	CHANDRAGUPTAN T
54	411520104020	DHAMODHARAN SK
55	411520104021	DHANASEHWAC R
56	411519104024	S. HARIHARAN

HOD/CSE

IQAC Coordinator

Co-ordinator
Internal Quality Assurance Cell
PERI Institute of Technology
Mannivakkam, Chennai-600 048.

Principal

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam-48
Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Participant	:	AARTHY. K.P			
Name of the Event	:	**Use tick mark** ☐ **Workshop** ☐ **Seminar** ☑ **Training**			
Event Participant	:	☑ **Internal** ☐ **External**	**Name of the college**	:	PERI DT

Your feedback is valuable to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title of the Event	:	BUILD YOUR BOOT CAMP.
Date	:	31/01/2024.
Name of the Instructor/Organization	:	MR. BALAJI MUNUSAMY

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

S. No	Evaluation Statements	Strongly Agree	Agree	Disagree	Strongly Disagree
1.	The content was already described as in publicity materials	4	3	2	1
2.	The program was well paced within allotted time	4	3	2	1
3.	The material was presented in an organized manner	4	3	2	1
4.	The instructors' knowledge on the topic was good.	4	3	2	1
5.	The instructors explained the material well and provided real-world examples.	4	3	2	1
6.	The balance between lectures and hands-on sessions was optimal.	4	3	2	1
7.	I will recommended this seminar/workshop/conference to other conservators	4	3	2	1
8.	I would be interested in attending a follow up, more advance seminar/workshop/conference on the same subject.	4	3	2	1
9.	The tutorial options accommodated the differing interests of participants.	4	3	2	1
10.	Overall, the event met my expectations.	4	3	2	1

Signature

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam-48
Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Participant	:	Praveen Kumar S			
Name of the Event	:	Use tick mark ☐ Workshop ☐ Seminar ☑ Training			
Event Participant	:	Internal ☑ External ☐	Name of the college	:	Peri IT

Your feedback is valuable to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title of the Event	:	Build your Bootcamp
Date	:	31/01/2022
Name of the Instructor/Organization	:	Mr. Balaji Munusamy

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

S. No	Evaluation Statements	Strongly Agree	Agree	Disagree	Strongly Disagree
1.	The content was already described as in publicity materials	4 ✓	3	2	1
2.	The program was well paced within allotted time	4	3	2 ✓	1
3.	The material was presented in an organized manner	4 ✓	3	2	1
4.	The instructors' knowledge on the topic was good.	4	3 ✓	2	1
5.	The instructors explained the material well and provided real-world examples.	4	3	2	1
6.	The balance between lectures and hands-on sessions was optimal.	4 ✓	3	2	1
7.	I will recommended this seminar/workshop/conference to other conservators	4	3 ✓	2	1
8.	I would be interested in attending a follow up, more advance seminar/workshop/conference on the same subject.	4	3	2 ✓	1
9.	The tutorial options accommodated the differing interests of participants.	4 ✓	3	2	1
10.	Overall, the event met my expectations.	4 ✓	3	2	1

S. Praveen
Signature

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam-48
Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Participant	:	G. Akash			
Name of the Event	:	Use tick mark ☐ Workshop ☐ Seminar ☑ Training			
Event Participant	:	☑ Internal ☐ External	Name of the college	:	PERI IT

Your feedback is valuable to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title of the Event	:	Build your bootcamp
Date	:	31/01/2022
Name of the Instructor/Organization	:	Mr. Balaji Munusamy

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

S. No	Evaluation Statements	Strongly Agree	Agree	Disagree	Strongly Disagree
1.	The content was already described as in publicity materials	4 ✓	3	2	1
2.	The program was well paced within allotted time	4	3	2 ✓	1
3.	The material was presented in an organized manner	4	3 ✓	2	1
4.	The instructors' knowledge on the topic was good.	4	3 ✓	2	1
5.	The instructors explained the material well and provided real-world examples.	4 ✓	3	2 ✓	1
6.	The balance between lectures and hands-on sessions was optimal.	4	3	2 ✓	1
7.	I will recommended this seminar/workshop/conference to other conservators	4 ✓	3	2	1 ✓
8.	I would be interested in attending a follow up, more advance seminar/workshop/conference on the same subject.	4	3	2	1 ✓
9.	The tutorial options accommodated the differing interests of participants.	4 ✓	3	2	1
10.	Overall, the event met my expectations.	4	3	2 ✓	1

G. Akash
Signature

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam-48
Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Participant	:	Gowroji Jasmitha			
Name of the Event	:	Use tick mark ☐ Workshop ☐ Seminar Training			
Event Participant	:	Internal ☑ External ☐	Name of the college	:	Peri IT

Your feedback is valuable to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title of the Event	:	Build your Bootcamp
Date	:	31/01/2022
Name of the Instructor/Organization	:	Mr. Balaji Munusamy

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

S. No	Evaluation Statements	Strongly Agree	Agree	Disagree	Strongly Disagree
1.	The content was already described as in publicity materials	4 ✓	3	2	1
2.	The program was well paced within allotted time	4	3 ✓	2	1
3.	The material was presented in an organized manner	4 ✓	3	2	1
4.	The instructors' knowledge on the topic was good.	4	3	2 ✓	1
5.	The instructors explained the material well and provided real-world examples.	4	3	2	1 ✓
6.	The balance between lectures and hands-on sessions was optimal.	4	3 ✓	2	1
7.	I will recommended this seminar/workshop/conference to other conservators	4 ✓	3	2	1
8.	I would be interested in attending a follow up, more advance seminar/workshop/conference on the same subject.	4	3 ✓	2	1
9.	The tutorial options accommodated the differing interests of participants.	4 ✓	3	2	1
10.	Overall, the event met my expectations.	4	3	2 ✓	1

G. Jasmitha
Signature

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

REF : PERIIT/CSEAT2021 **DATE: 11-11-2021**

This is to inform that the following enrolled students will have Full Stack Development training on the following scheduled date and all of you attend regularly and get benefits of this training. This training will be held on the following venue.

DATE : 22-11-2021 TO 26-11-2021

TIME : 8.30 AM – 3.30 PM

PLACE: CONFERENCE HALL

CODE:CS021A

Computer Science and Engineering i/c
PERI Institute of Technology
Mannivakkam, Chennai-600 048.

HEAD OF DEPARTMENT **PRINCIPAL**

Copy to I,II & III yr classes

CC : HOD/ECE/EEE/CSE/MECH/CIVIL

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Computer Science and Engineering

Course Code: CS021A

Course Name: Schedule-Full Stack Development

Date	Session	Topic covered
DATE : **22-11-2021 TO 26-11-2021** **TIME :** **8.30 AM – 3.30 PM** **VENUE:** **CONFERENCE HALL**	FN &AN	Introduction HTML • HTML Basics • HTML Elements • HTML5 Semantic • HTML Attributes • HTML Headings • HTML Paragraph • HTML styles • HTML Formatting • HTML Quotations • HTML Computer Code • HTML Comments & Colors
	FN &AN	Introduction CSS3 • CSS3 syntax • CSS3 How To • CSS3 Colours • CSS3 Backgrounds • CSS3 Boarders • CSS Padding • CSS Height/Width • CSS3 Gradients • CSS3 Shadows • CSS3 Text • CSS3 Fonts • CSS3 2D Transforms • CSS3 3D Transforms
	FN &AN	Introduction to Bootstrap • Bootstrap Basics • Bootstrap Grids • Bootstrap Themes • Bootstrap CSS • Bootstrap JS
	FN &AN	Introduction to JavaScript • JavaScript Language Basics • JavaScript Objects • JavaScript Scope • JavaScript Events • JavaScript Strings
	FN &AN	Using PHP • Embedding PHP in HTML • Adding Dynamic Content • Accessing Form Variables

Head of the Department

PERI INSTITUTE OF TECHNOLOGY

COMPUTER SCIENCE AND ENGINEERING

Academic Year 2021-2022Students Name List
for Full Stack Development

S.No	REG NO	NAME
1	411522104048	Karthika R.
2	411522104052	Keerthiga N.
3	411522104059	Madhan Kumar P.
4	411522104070	Narmadha S
5	411522104081	Preethi S
6	411522104082	Premchand P.
7	411522104083	Priya S
8	411522104087	Rohit K.
9	411522104093	Sanjay S
10	411522104094	Santhosh A.
11	411522104104	Siva S.
12	411522104105	Siva Vishnuraja I.
13	411522104107	Srinivasan P
14	411522104118	Varshini S
15	411522104123	Yashwin Raj M
16	411522104124	Yogeswaran S.
17	411522243011	Jaisurya K
18	411522243012	Karpagam C.
19	411522243015	Kotteeswari S
20	411522243016	Manasa M
21	411522243017	Merin Priya R
22	411522243018	Mohamed Mushthaq J
23	411522243019	Mohamed Rafith H
24	411522243027	Sachin S
25	411522243030	Tamilselvan R
26	411522243031	Yuganthi D
27	411521104009	Arul Pandian P
28	411521104010	Ashwin V
29	411521104011	Bargavi A V
30	411521104033	Elakya R
31	411521104034	Franklin Joshwa S
32	411521104042	Harish S
33	411521104044	Ishasri P
34	411521104056	Keerthika M
35	411521104057	Keerthivasan S
36	411521104058	Kowsalya B
37	411521104059	Lakshmi Priya M
38	411521104090	Ramya R
39	411521104097	Sai Prasanth A

40	411521104098	Sakthi Aswin S
41	411521104313	Raman C
42	411521104314	Sakthivel B
43	411521104315	Sam Francis Xavier R P

HOD-CSE

PERI INSTITUTE OF TECHNOLOGY

COMPUTER SCIENCE AND ENGINEERING

I,II & III YEAR CSE

Full Stack Development-Attendance Sheet

S.No	REG NO	NAME	22/11	23/11	24/11	25/11	26/11
1	411522104048	Karthika R.					
2	411522104052	Keerthiga N.					
3	411522104059	Madhan Kumar P.					
4	411522104070	Narmadha S					
5	411522104081	Preethi S					
6	411522104082	Premchand P.					
7	411522104083	Priya S					
8	411522104087	Rohit K.					
9	411522104093	Sanjay S					
10	411522104094	Santhosh A.					
11	411522104104	Siva S.					
12	411522104105	Siva Vishnuraja I.					
13	411522104107	Srinivasan P					
14	411522104118	Varshini S					
15	411522104123	Yashwin Raj M					
16	411522104124	Yogeswaran S.					
17	411522243011	Jaisurya K					
18	411522243012	Karpagam C.					
19	411522243015	Kotteeswari S					
20	411522243016	Manasa M					
21	411522243017	Merin Priya R					
22	411522243018	Mohamed Mushthaq J					
23	411522243019	Mohamed Rafith H					
24	411522243027	Sachin S					
25	411522243030	Tamilselvan R					
26	411522243031	Yuganthi D					
27	411521104009	Arul Pandian P					
28	411521104010	Ashwin V					
29	411521104011	Bargavi A V					
30	411521104033	Elakya R					
31	411521104034	Franklin Joshwa S					
32	411521104042	Harish S					
33	411521104044	Ishasri P					
34	411521104056	Keerthika M					
35	411521104057	Keerthivasan S					
36	411521104058	Kowsalya B					
37	411521104059	Lakshmi Priya M					
38	411521104090	Ramya R					
39	411521104097	Sai Prasanth A					

40	411521104098	Sakthi Aswin S						
41	411521104313	Raman C						
42	411521104314	Sakthivel B						
43	411521104315	Sam Francis Xavier R P						

HOD/CSE

IQAC Coordinator

Coordinator
Internal Quality Assurance Cell
PERI Institute of Technology
Mannivakkam, Chennai-600 048.

Principal

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

Mannivakkam-48
Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Participant	:	Lavanya P			
Name of the Event	:	Use tick mark ☐ Workshop ☐ Seminar ☑ Training			
Event Participant	:	☐ Internal ☐ External	**Name of the college**	:	

~~Your feedback is valuable to ensure we are meeting your educational needs. We would~~ **appreciate if you could take a few minutes to share your opinions with us so we can serve you better.**

Title of the Event	:	Full Stack Development
Date	:	22-11-2021
Name of the Instructor/Organization	:	Mr. Vignesh / Shan Software Solutions

~~Please respond to the following statements by using the 4-point rating scale to indicate~~ **the extent to which you agree or disagree with each statement. Please circle the number that applies.**

S. No	Evaluation Statements	Strongly Agree	Agree	Disagree	Strongly Disagree
1.	The content was already described as in publicity materials	4	(3)	2	1
2.	The program was well paced within allotted time	(4)	3	2	1
3.	The material was presented in an organized manner	(4)	3	2	1
4.	The instructors' knowledge on the topic was good.	4	(3)	2	1
5.	The instructors explained the material well and provided real-world examples.	4	(3)	2	1
6.	The balance between lectures and hands-on sessions was optimal.	(4)	3	2	1
7.	I will recommended this seminar/workshop/conference to other conservators	4	(3)	2	1
8.	I would be interested in attending a follow up, more advance seminar/workshop/conference on the same subject.	4	(3)	2	1
9.	The tutorial options accommodated the differing interests of participants.	(4)	3	2	1
10.	Overall, the event met my expectations.	4	(3)	2	1

Signature

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2020-2021

Ref: PERIIT /ECE/Add-On Course/2021-22/01 **Date: 06.09.2021**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "CYBER SECURITY AND WEB DESIGNING " for the Academic Year 2021 – 2022 for IV year ECE students.Course will be conducted on Monday,Wednesday and Friday of every week,timing of course mentioned below.

CODE:ECA019

S.No.	Year	Scheduled Date	Session
1	IV	14.09.2021 -14.10.2021	10.15AM to 11.45AM

6/9/21

Co-ordinator

Head of the Department

Head of the Department
ELECTRONICS AND COMMUNICATION ENGINEERING
PERI INSTITUTE OF TECHNOLOGY
CHENNAI - 600 048.

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members -ECE
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Course Code: ECA019 **Year/Semester:III/VI**

Course Name: Cyber Security and Web Designing **Session: FN**

S.No	DATE	HOURS	TOPIC
1	14.09.21	3rd & 4th	Introduction to Cyber Security: Basic Cyber Security Concepts, layers of security, Vulnerability, threat, Harmful acts, Internet Governance
2	15.09.21	3rd & 4th	Challenges and Constraints, Computer Criminals, CIA Triad, Assets and Threat
3	17.09.21	3rd & 4th	Motive of attackers, active attacks, passive attacks, Software attacks, hardware attacks.
4	20.09.21	3rd & 4th	Cyber Warfare, Cyber Crime, Cyber terrorism, Cyber Espionage, etc., Comprehensive Cyber Security Policy.
5	22.09.21	3rd & 4th	Cyber crime: Mobile and Wireless Devices: Introduction, Proliferation of Mobile and Wireless Devices.
6	24.09.21	3rd & 4th	Trends in Mobility, Credit card Frauds in Mobile and Wireless Computing Era.
7	27.09.21	3rd & 4th	Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices, Authentication service Security.
8	29.09.21	3rd & 4th	Attacks on Mobile/Cell Phones, Organizational security Policies and Measures in Mobile Computing Era, Laptops
9	01.10.21	3rd & 4th	Introduction to Web Design.Client and Server Software.-Domain Names & DNS.
10	04.10.21	3rd & 4th	Careers in Web Technologies-Static& Dynamic-Introduction of Stock Photography-Using Photoshop Tools
11	06.10.21	3rd & 4th	Types of Images and Image Editing Tools-Design Banners, Basic Website Layout-Layers.
12	08.10.21	3rd & 4th	Actions and Filters-Design Complex Website Layout-Creating Custom Effects
13	11.10.21	3rd & 4th	Structure of HTML-Basic and Advanced HTML Tags-DHTML Basic tags-Doc Types-JavaScript-Website Testing
14	13.10.21	3rd & 4th	Types of Java Scripts-Objects, Events and DOM-Variables, operators, loops-Graphics-Creating a Button- Creating a Web Photo Album-Creating a Web Page Banner-
15	14.10.21	3rd & 4th	Website Creation-Creating a concept and layout-Choosing Stock Photography-Choosing a Color Scheme-Design a Professional Layout-Texture and Typography-Implementing JavaScript.

Coordinator **HOD/ECE**

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2021-2022
IV/ECE

S.NO.	REG. NO	STUDENT NAME
1	411518106001	ABINAYA S
2	411518106002	AJAYKUMAR D
3	411518106004	ANGELO JUDE DUMENIL
4	411518106007	ASHWINI M
5	411518106008	ASLAM BADUS HA I
6	411518106009	BARATHWAJ K R
7	411518106011	BEVINA M
8	411518106012	BUDDANNAGARI MADHU
9	411518106014	DINESH S
10	411518106015	EVANGLIN S
11	411518106017	GENJI MUKHESH REDDY
12	411518106018	GOKUL KRISHNAN M
13	411518106019	HABIBUNNISHA
14	411518106020	INTHIRAN R
15	411518106021	ISHRATH JABEEN S
16	411518106023	JAYAKAMALA NARAYANAN N
17	411518106024	JEEVA B M
18	411518106026	KALAIVANI CHAKKARAPANI
19	411518106028	KAVITHA R
20	411518106030	KIRUBAKARAN S
21	411518106031	KOKILAVANI P
22	411518106036	MALLAVARAPU SHREYA
23	411518106037	MANOJ KUMAR N
24	411518106038	MIDHUNA VARSHINI J
25	411518106039	MOHANKUMAR P
26	411518106046	NIDHI SELVAN J C
27	411518106048	PRASANTH R
28	411518106049	PRAVEENA R
29	411518106050	PRAWIN CHANDAR B
30	411518106054	RAMESH ARAVIND T
31	411518106055	RAYAPATI SOWMYA SUHANNA PRIYA
32	411518106056	RINOZA K
33	411518106059	SANJAI SAIRAM S K
34	411518106064	SUNDAR R
35	411518106065	SURYA D

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2021-2022
IV/ECE

36	411518106067	SUVASNA M
37	411518106069	VAKA HARSHITHA
38	411518106072	YASER ABDUL RAHEEM K S
39	411518106003	AKASH PRIYADHARSAN B
40	411518106005	ANUGU PAVAN
41	411518106006	ARIVUKARASU T
42	411518106010	BESTHA BHAVANA RAVIKUMAR
43	411518106013	CHANDRU M
44	411518106016	GANESH A
45	411518106022	JANANI PRIYA D
46	411518106025	JOTHIKA V
47	411518106027	KAMALESH J
48	411518106029	KIRAN RAJ A
49	411518106032	KUMARAN K
50	411518106033	LAGADAPATI BADRINATH
51	411518106035	MAHESH KUMAR V
52	411518106040	MONISH B
53	411518106041	MUKESH S
54	411518106042	MUKUNTHAN S
55	411518106043	NAGASUBA G
56	411518106044	NAVEEN S
57	411518106045	NEELAM PRANAY SA
58	411518106047	NITHISH KUMAR C
59	411518106051	PREM KUMAR M D
60	411518106052	RAGAPRIYA M
61	411518106057	RITHICKANAND N
62	411518106058	SAMEERA BANU B
63	411518106060	SANJAY RAMESH R
64	411518106062	SRIRAM I
65	411518106063	SUJAI MATHEW B
66	411518106066	SURYA G
67	411518106068	THIRAVIDAR SELVAM G
68	411518106070	VENKATESH R
69	411518106071	YAKESH G
70	411518106301	ARUN KUMAR.E
71	411518106302	LOGESH.S
72	411518106303	ZAINUL KHAN.A

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ECE

Attendance Sheet for Cyber Security and Web Designing(14.09.21-14.10.21)

S.NO	REG. NO.	NAME OF THE STUDENT	14/9	15/9	17/9	20/9	22/9	24/9	27/9	29/9	4/10	6/10	8/10	11/10	13/10	14/10
1	411518106001	Abinaya S														
2	411518106002	Ajaykumar D														
3	411518106004	Angelo Jude Dumenil														
4	411518106007	Ashwini M														
5	411518106008	Aslam Badus Ha I														
6	411518106009	Barathwaj K R														
7	411518106011	Bevina M														
8	411518106012	Buddannagari Madhu														
9	411518106014	Dinesh S														
10	411518106015	Evanglin S														
11	411518106017	Genji Mukhesh Reddy														
12	411518106018	Gokul Krishnan M														
13	411518106019	Habibunnisha														
14	411518106020	Inthiran R														
15	411518106021	Ishrath Jabeen S														
16	411518106023	Jayakamala Narayanan N														
17	411518106024	Jeeva B M														
18	411518106026	Kalaivani Chakkarapani														
19	411518106028	Kavitha R														
20	411518106030	Kirubakaran S														
21	411518106031	Kokilavani P														
22	411518106036	Mallavarapu Shreya														
23	411518106037	Manoj Kumar N														
24	411518106038	Midhuna Varshini J														
25	411518106039	Mohankumar P														
26	411518106046	Nidhi Selvan J C														
27	411518106048	Prasanth R														
28	411518106049	Praveena R														
29	411518106050	Prawin Chandar B														
30	411518106054	Ramesh Aravind T														
31	411518106055	Rayapati Sowmya														
32	411518106056	Rinoza K														
33	411518106059	Sanjai Sairam S K														
34	411518106064	Sundar R														
35	411518106065	Surya D														
36	411518106067	Suvasna M														
37	411518106069	Vaka Harshitha														
38	411518106072	Yaser Abdul Raheem K S														
39	411518106003	Akash Priyadharsan B														
40	411518106005	Anugu Pavan														
41	411518106006	Arivukarasu T														
42	411518106010	Bestha Bhavana														
43	411518106013	Chandru M														
44	411518106016	Ganesh A														
45	411518106022	Janani Priya D														

46	411518106025	Jothika V																	
47	411518106027	Kamalesh J																	
48	411518106029	Kiran Raj A																	
49	411518106032	Kumaran K																	
50	411518106033	Lagadapati Badrinath																	
51	411518106035	Mahesh Kumar V																	
52	411518106040	Monish B																	
53	411518106041	Mukesh S																	
54	411518106042	Mukunthan S																	
55	411518106043	Nagasuba G																	
56	411518106044	Naveen S																	
57	411518106045	Neelam Pranay Sa																	
58	411518106047	Nithish Kumar C																	
59	411518106051	Prem Kumar M D																	
60	411518106052	Ragapriya M																	
61	411518106057	Rithickanand N																	
62	411518106058	Sameera Banu B																	
63	411518106060	Sanjay Ramesh R																	
64	411518106062	Sriram I																	
65	411518106063	Sujai Mathew B																	
66	411518106066	Surya G																	
67	411518106068	Thiravidar Selvam G																	
68	411518106070	Venkatesh R																	
69	411518106071	Yakesh G																	
70	411518106301	Arun Kumar.E																	
71	411518106302	Logesh.S																	
72	411518106303	Zainul Khan.A																	
PRESENT			70	68	68	67	68	71	66	63	70	69	67	70	68	72			
ABSENT			02	04	04	05	04	01	06	09	02	03	05	02	04	—			

Coordinator

HOD/ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I: Introduction to Cyber Security: Basic Cyber Security Concepts, layers of security, Vulnerability, threat, Harmful acts, Internet Governance – Challenges and Constraints, Computer Criminals, CIA Triad, Assets and Threat, motive of attackers, active attacks, passive attacks, Software attacks, hardware attacks, Cyber Threats-Cyber Warfare, Cyber Crime, Cyber terrorism, Cyber Espionage, etc., Comprehensive Cyber Security Policy.

MODULE II: Cyber crime: Mobile and Wireless Devices: Introduction, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit card Frauds in Mobile and Wireless Computing Era, Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices, Authentication service Security, Attacks on Mobile/Cell Phones, Organizational security Policies and Measures in Mobile Computing Era, Laptops

MODULE III: Introduction to Web Design.Client and Server Software.-Domain Names & DNS-Careers in Web Technologies-Static& Dynamic-Introduction of Stock Photography-Using Photoshop Tools-Types of Images and Image Editing Tools-Design Banners, Basic Website Layout-Layers, Actions and Filters-Design Complex Website Layout-Creating Custom Effects

MODULE IV: Structure of HTML-Basic and Advanced HTML Tags-DHTML Basic tags-Doc Types-JavaScript-Website Testing-Types of Java Scripts-Objects, Events and DOM-Variables, operators, loops-Graphics-Creating a Button- Creating a Web Photo Album-Creating a Web Page Banner-Website Creation-Creating a concept and layout-Choosing Stock Photography-Choosing a Color Scheme-Design a Professional Layout-Texture and Typography-Implementing JavaScript.

Coordinator

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT ON CYBER SECURITY AND WEB DESIGNING

1) Which of these describes an ongoing pursuit by an individual/group?

a) Stalking

b) Identity theft

c) Phishing

d) Bulling

2) Which one of the following is considered in the category of computer threats?

a) Soliciting

b) DoS attack

c) Phishing

d) Both A and B

3) Which of the following typically keeps tabs on every online activity the victim engages in, compiles all the data in the background, and sends it to a third party?

a) Adware

b) Malware

c) Spyware

d) All of the above

4) Which one is considered to be a type of antivirus program?

a) Kaspersky

b) Mcafee

c) Quick heal

d) All of the above

5) Which of these scanners for ports and IP addresses is most used by users?

a) Cain and Abel

b) Ettercap

c) Snort

d) Angry IP Scanner

6) Which of the following phrases describes taking someone else's creation or idea and using it for one's own advantage?

a) Intellectual property rights

b) Piracy

c) Plagiarism

d) All of the above

7) Which of the following describes investigating moral conduct concerning the digital media landscape?

a) Cyberethics

b) Cyber low

c) Cybersafety

d) Cybersecurity

8) State whether True or False: Data encryption is used to ensure confidentiality.

a) True

b) False

c) It cannot be understood

d) None

9) Determine the earliest method of free phone calls used by hackers.

a) Cracking

b) Spamming

c) Phreaking

d) Phishing

10) Which of the following statements best describes how the principle would be broken if a computer was no longer accessible?

a) Confidentiality

b) Access control

c) Availability

d) All of the above

11) Which of these methods is used to check the validity of a message?

a) Digital signature

b) Protocol

c) Message Digest

12) Which of the following is typically used when hacking Wi-Fi?

a) Wireshark

b) Aircrack-ng

c) Norton

d) All of the above

13) Among the following, which is not a form of scanning?

a) Null Scan

b) Xmas Tree Scan

c) SYN Stealth

d) Cloud Scan

14) The Code Red is similar to a:

a) Photo Editing Software

b) Antivirus Program

c) Video Editing Software

d) Computer Virus

15) Which of these was the first antivirus software ever created?

a) Reaper

b) Ray Tomlinson

c) Creeper

d) Tinkered

16) What kind of malware does not replicate or clone itself through infection?

a) Rootkits

b) Worms

c) Viruses

d) Trojans

17) The DNS would convert any domain name into:

a) Hex

b) Binary

c) URL

d) IP

18) The most important step in system hacking is:

a) Cracking passwords

b) Covering tracks

c) Information gathering

d) None of the above

19) Which of the following describes the different forms of scanning?

a) Client, Server, and network

b) Network, vulnerability, and port scanning

c) Port, network, and services

d) None of the above

20) Determine the attack type that employs a fake server with a relay address.

a) SMB

b) NetBIOS

c) NTLM

d) MITM

21) Pick one of the following methods for hiding information inside a picture:

a) Image Rendering

b) Steganography

c) Rootkits

d) Bitmapping

23) Choose one of the following strategies to prevent browser-based hacking:

a) Adware remover in the browser

b) Anti-malware in the browser

c) Remote browser access

d) Incognito mode in the browser

24) Which of these is the port number (default) for many web servers, including apache?

a) 80

b) 20

c) 87

d) 40

25) They are malicious hackers whose primary goal is to commit cybercrimes to make money. Who are "they" in this context?

a) White Hat Hackers

b) Black Hat Hackers

c) Hacktivists

d) Gray Hat Hackers

26) Any company or organisation's IT security is managed and maintained by

a) IT Security Engineer

b) Security Auditor

c) CEO of the organisation

d) Software Security Specialist

27) What does EDR stand for?

a) Endless Detection and Response

b) Endpoint Detection and Response

c) Endpoint Detection and Recovery

d) Endless Detection and Recovery

28) The _____ of a network is assessed using the response and transit times.

a) Longevity

b) Performance

c) Reliability

d) Security

29) Which of the following statements concerning the firewall is true?

a) It is a barrier created to stop files from hurting the company.

b) It is a tool put in place at a business's perimeter to stop uninvited physical entrance.

c) It is a device placed at an organisation's perimeter to prevent unwanted access.

d) None of the above

30) **Which of the following Cyber Security principles limits how privileges are started whenever an object or subject is created?**

a) Open-Design

b) Fail-safe Defaults

c) Least privilege

d) None of the above

31. What is the full form of HTML?

a) Hyper text markup language
b) Hyphenation text markup language
c) Hyphenation test marking language
d) Hyper text marking language

32. What is the full form of HTTP?

a) Hyper text transfer protocol
b) Hyper text transfer package
c) Hyphenation text test program
d) none of the above

33. What is a search engine?

a) a program that searches engines
b) a web site that searches anything
c) a hardware component
d) a machinery engine that search data

34. What is the full form of TCP/IP?

a) transmission control protocol / internet protocol
b) telephone call protocol / international protocol
c) transport control protocol / internet protocol
d) none of the above

35. HTML document start and end with which tag pairs?

a. <HEAD>….</HEAD>

b. <BODY>….</BODY>

c. <HTML>….</HTML>

d. <WEB>….</WEB>

36. Which tag is used to create body text in HTML?

a) <HEAD>
b) <TEXT>
c) <TITLE>
d) <BODY>

37."Yahoo", "Infoseek" and "Lycos" are _____?

a) Search Engines
b) Browsers
c) News groups
d) None of the above

38. What does the .com domain represents?

a) Education domain
b) Commercial domain
c) Network
d) None of the above

39. In Satellite based communication, VSAT stands for?

a) Very Small Aperture Terminal
b) Varying Size Aperture Terminal
c) Very Small Analog Terminal
d) None of the above

40. 1-10. Outlook Express is a _____

a) E-Mail Client
b) Browser
c) Search Engine
d) None of the above

41. Web page editors works on a ____ principle.

a) WWW
b) HTML
c) WYSIWYG
d) WYGWYSI

42. Which program is used by web clients to view the web pages?

a) Web browser

b) Protocol

c) Web server

d) Search Engine

43. What is the name of the location address of the hypertext documents?

a) Uniform Resource Locator

b) Web server

c) File

d) Web address

44. What are shared on the Internet and are called as Web pages?

a) Programs

b) Cables

c) Hypertext documents

d) None

45. How many colour names are used by the browsers?

a) 8

b) 10

c) 12

d) 16

46 .What is web design primarily concerned with?

a) Writing and editing website content
b) Creating visual elements for the website
c) Developing server-side code for the website
d) Designing the layout and appearance of websites

47. What is the purpose of responsive design in web design?

a) To make the website load faster
b) To ensure the website looks the same on all devices
c) To optimize the website for search engines
d) To make the website adapt and display correctly on various devices

48. What is the term used for the arrangement and organization of elements on a webpage?

a) Typography
b) User Interface (UI)
c) Layout
d) User Experience (UX)

49. What is the role of call-to-action (CTA) buttons in web design?

a) To attract more visitors to the website
b) To encourage users to take specific actions, such as making a purchase or signing up for a newsletter

c) To optimize the website for search engines
d) To display the website's contact information

50. Which web design element focuses on ensuring that the website is accessible and usable on all devices and screen sizes?

a) User Interface (UI)
b) User Experience (UX)
c) Responsive Design
d) Typography

PERI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2021-2022

Ref: PERIIT /ECE/Add-On Course/2021-22/02 **Date: 03.01.2022**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "CLOUD COMPUTING AND DISTRIBUTED SYSTEM" for the Academic Year 2020 – 2021 for III year ECE students.

CODE:ECA020

S.No.	Year	Scheduled Date	Session 1	Session 2
1	III	07.01.2022-13.01.2.22	9.15AM to 11.45AM	12.30PM to 3.30PM

3/1/22

Co-ordinator

Head of the Department

Head of the Department
ELECTRONICS AND COMMUNICATION ENGINEERING
PERI INSTITUTE OF TECHNOLOGY
CHENNAI - 600 048.

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2. Vice – Principal
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4. Faculty Members -ECE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Course Code: ECA020 **Year/Semester:III/VI**

Course Name: Cloud Computing and Distributed system **Session: FN &AN**

S.No	DATE	HOURS	TOPIC
1	07.01.2022	1st-5th	Introduction to distributed systems and cloud computing. Cloud architectures: SaaS, PaaS, IaaS. End-to-end system design. Networks and protocol stacks.Client-server computing. Sockets and remote procedure call.
2	08.01.2022	1st-6th	Distributed file systems and cache consistency. NFS, AFS. Storage in the Cloud: Google/ Hadoop file system.Web services and REST. Example: Amazon S3. The JAX-RS API. Persistent cloud services.Failure models and failure detectors.Asynchrony: .
3	10.01.2022	1st-6th	Server-side events and REST. Web sockets. Vert.x: Node.js for Java. Distributed snapshots. Distributed debugging. Time and ordering of events. Causal broadcasts.Batch cloud computing: map-reduce and Hadoop. Domain-specific languages for cloud data processing: Pig and Hive.
4	11.01.2022	1st-6th	Transactions. Serializability and recoverability.-Long-lived transactions. Transactions. Atomic commitment protocols: 2PC and 3PC.Highly available services. Replicated services and quorum consensus.
5	12.01.2022	1st-6th	The CAP Theorem. NoSQL data stores. Table-based (Google BigTable), key-based (Amazon Dynamo), and Cassandra. The Hector API. Query processing with Map-reduce.
6	13.01.2022	1st-6th	Consensus and the Paxos algorithm. Applications in the cloud: Google Chubby, Yahoo Zookeeper. Peer-to-peer systems. Distributed hash tables. Applications in multiplayer game-playing.

Coordinator **HOD/ECE**

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2021-2022
III/ECE

S.NO	REGISTER NO	NAME OF THE STUDENT
1	411519106001	AKASH S
2	411519106002	BAGAVATH.P
3	411519106003	CHANDRU S
4	411519106004	DESULUGIRI KODANDARAMI REDDY
5	411519106005	DINESH V
6	411519106006	GOLDA FAITH T
7	411519106007	HARISH R
8	411519106009	KARTHICKKUMAR M
9	411519106010	KAVIPRIYA M
10	411519106011	KAVIYA E S
11	411519106012	KEERTHI R
12	411519106013	KARTHEEK VARMA K
13	411519106015	MERLIN P
14	411519106016	MUGILAN K
15	411519106017	PRAKRUTHI M A
16	411519106018	PRAVEEN RAJ T
17	411519106019	RAVI KUMAR V
18	411519106020	SANGEETHA V
19	411519106021	SARVEPALLI DEEPAK
20	411519106022	SASI KUMAR S
21	411519106023	SHAJITHABARVEEN S
22	411519106024	SHALINI D
23	411519106025	SNEGA S
24	411519106026	SWARNA C R
25	411519106027	VELAN S
26	411519106028	VINOTH KUMAR R
27	411519106301	ARUN PRASATH V
28	411519106302	MATHESH G
29	411519106303	RAGUL P
30	411519106304	VISWANATH E

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ECE

Attendance Report-Cloud Computing and Distributed System

S.NO	REG. NO.	NAME OF THE STUDENT	07.01.22	08.01.22	10.01.22	11.01.22	12.01.22	13.01.22
1	411519106001	AKASH S						
2	411519106002	BAGAVATH.P						
3	411519106003	CHANDRU S						
4	411519106004	DESULUGIRI KODANDARAMI REDDY						
5	411519106005	DINESH V						
6	411519106006	GOLDA FAITH T						
7	411519106007	HARISH R						
8	411519106009	KARTHICKKUMAR M						
9	411519106010	KAVIPRIYA M						
10	411519106011	KAVIYA E S						
11	411519106012	KEERTHI R						
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16	411519106018	PRAVEEN RAJ T						
17	411519106019	RAVI KUMAR V						
18	411519106020	SANGEETHA V						
19	411519106021	SARVEPALLI DEEPAK						
20	411519106022	SASI KUMAR S						
21	411519106023	SHAJITHABARVEEN S						
22	411519106024	SHALINI D						
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24	411519106026	SWARNA C R						
25	411519106027	VELAN S						
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27	411519106301	ARUN PRASATH V						
28	411519106302	MATHESH G						
29	411519106303	RAGUL P						
30	411519106304	VISWANATH E						
PRESENT								
ABSENT								

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I: Introduction to distributed systems and cloud computing. Cloud architectures: SaaS, PaaS, IaaS. End-to-end system design. Networks and protocol stacks.Client-server computing. Sockets and remote procedure call. Distributed file systems and cache consistency. NFS, AFS. Storage in the Cloud: Google/ Hadoop file system.

MODULE II: Web services and REST. Example: Amazon S3. The JAX-RS API. Persistent cloud services.Failure models and failure detectors.Asynchrony: publish-subscribe. Server-side events and REST. Web sockets. Vert.x: Node.js for Java. Distributed snapshots. Distributed debugging. Time and ordering of events. Causal broadcasts

MODULE III: Batch cloud computing: map-reduce and Hadoop. Domain-specific languages for cloud data processing: Pig and Hive. Transactions. Serializability and recoverability. Long-lived transactions. Transactions. Atomic commitment protocols: 2PC and 3PC

MODULE IV: Highly available services. Replicated services and quorum consensus. The CAP Theorem. NoSQL data stores. Table-based (Google BigTable), key-based (Amazon Dynamo), and Cassandra. The Hector API. Query processing with Map-reduce.

MODULE V: Consensus and the Paxos algorithm. Applications in the cloud: Google Chubby, Yahoo Zookeeper. Peer-to-peer systems. Distributed hash tables. Applications in multiplayer game-playing.

Coordinator

HOD/ECE

13.01.2022

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT ON CLOUD COMPUTING AND DISTRIBUTED SYSTEM

1) What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?

a. Distributed Computing
b. Cloud Computing
c. Soft Computing
d. Parallel Computing

20/25

2) Which one of the following options can be considered as the Cloud?

a. Hadoop
b. Intranet
c. Web Applications
d. All of the mentioned

3) Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____resources to users.

a. Real
b. Cloud
c. Virtual
d. none of the mentioned

4) Which of the following has many features of that is now known as cloud computing?

a. Web Service
b. Softwares
c. All of the mentioned
d. Internet

5) Which one of the following cloud concepts is related to sharing and pooling the resources?

a. Polymorphism
b. Virtualization

c. Abstraction
d. None of the mentioned

6) Which one of the following statements is not true?

a. The popularization of the Internet actually enabled most cloud computing systems.
b. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
c. Soft computing addresses a real paradigm in the way in which the system is deployed.
d. All of the mentioned

7) Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?

a. Computing
b. Model
c. Software
d. All of the mentioned

8) Which of the following is an essential concept related to Cloud?

a. Reliability
b. Abstraction
c. Productivity
d. All of the mentioned

9) Which one of the following is Cloud Platform by Amazon?

a. Azure
b. AWS
c. Cloudera
d. All of the mentioned

10) Which of the following statement is not true?

a. Through cloud computing, one can begin with very small and become big in a rapid manner.
b. All applications benefit from deployment in the Cloud.
c. Cloud computing is revolutionary, even though the technology it is built on is evolutionary.
d. None of the mentioned

11) In the Planning Phase, Which of the following is the correct step for performing the analysis?

a. Cloud Computing Value Proposition
b. Cloud Computing Strategy Planning
c. Both A and B
d. Business Architecture Development

12) In which one of the following, a strategy record or Document is created respectively to the events, conditions a user may face while applying cloud computing mode.

a. Cloud Computing Value Proposition
b. Cloud Computing Strategy Planning
c. Planning Phase
d. Business Architecture Development

13) What is Business Architecture Development?

a. We recognize the risks that might be caused by cloud computing application from a business perspective.
b. We identify the applications that support the business processes and the technologies required to support enterprise applications and data systems.
c. We formulate all kinds of plans that are required to transform the current business to cloud computing modes.
d. None of the above

14) Which one of the following refers to the non-functional requirements like disaster recovery, security, reliability, etc.

a. Service Development
b. Quality of service
c. Plan Development
d. Technical Service

15) Which one of the following is a phase of the Deployment process?

a. Selecting Cloud Computing Provider
b. IT Architecture Development
c. Business Architecture Development
d. Transformation Plan Development

16) This phase involves selecting a cloud provider based on the Service Level Agreement (SLA), which defines the level of service the provider receives.

a. Maintenance and Technical Service
b. Selecting Cloud Computing Provider
c. Both A and B
d. None of the above

17) In which one of the following phases, IT Architecture Development came?

a. Strategy Phase
b. Planning Phase
c. Deployment Phase
d. Development Phase

18) Which of the model involves the special types of services that users can access on a Cloud Computing platform?

a. Service
b. Planning
c. Deployment
d. Application

19) Which one of the following is related to the services provided by Cloud?

a. Sourcing
b. Ownership
c. Reliability
d. PaaS

20) How many phases are present in Cloud Computing Planning?

a. 2
b. 3
c. 4
d. 5

21) Cloud computing architecture is a combination of?

a. service-oriented architecture and grid computing
b. Utility computing and event-driven architecture.
c. Service-oriented architecture and event-driven architecture.
d. Virtualization and event-driven architecture.

22) In how many parts we can broadly divide the architecture of the Cloud?

a. 4
b. 3
c. 2
d. 5

23) Which one of the following refers to the user's part of the Cloud Computing system?

a. back End
b. Management
c. Infrastructure
d. Front End

24) Which one of the following can be considered as the example of the Front-end?

a. Web Browser
b. Google Compute Engine
c. Cisco Metapod
d. Amazon Web Services

25) By whom is the backend commonly used?

a. Client
b. User
c. Stockholders
d. service provider

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2021-2022

Ref: PERIIT /ECE/Add-On Course/2021-22/03 **Date: 18.01.2022**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "MICROPROCESSOR AND MICROCONTROLLER" for the Academic Year 2021– 2022 for II year ECE students.

CODE:ECA021

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II	22.01.2022-28.01.2022	9.15AM to 11.45AM	12.30PM to 3.30PM

Co-ordinator

Head of the Department

Head of the Department
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Course Code: ECA021 **Year/Semester:II/IV**

Course Name: Microprocessor and Microcontroller **Session: FN &AN**

S.No	DATE	HOURS	TOPIC
1	22.01.22	2nd -8th	Architecture of 8086, Register Organization, Programming Model, Memory addresses, Memory Segmentation, Physical Memory Organization, Signal descriptions of 8086- Common Function Signals, Minimum and Maximum mode signals, Timing diagrams.
2	24.01.22	2nd -8th	Instruction formats, Addressing modes, Instruction Set, Assembler Directives, Procedures, Macros, Simple Programs involving Logical, Branch and Call Instructions, Sorting, Evaluating Arithmetic Expressions, String Manipulations.8255 PPI, Various Modes of Operation and Interfacing to 8086.
3	25.01.22	2nd -8th	D/A and A/D Converter, Stepper motor, Interfacing of DMA controller 8257.Memory Interfacing to 8086, Interrupt Structure of 8086, Vector Interrupt Table, Interrupt Service Routine, architecture of 8259.
4	27.01.22	2nd -8th	Serial Communication Standards, Serial Data Transfer Schemes, 8251 USART Architecture and Interfacing.Overview of 8051 Microcontroller, Architecture, I/O Ports, Memory Organization, Addressing Modes and Instruction set of 8051, Simple Programs, memory interfacing to 8051
5	28.01.22	2nd -8th	Programming Timer Interrupts, Programming External Hardware Interrupts, Programming the Serial Communication Interrupts, Programming 8051 Timers and Counters .Fundamentals, Registers, Current program status register, Pipeline, Interrupt and the vector table.

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DEPARTMENT OF ECE
ACADEMIC YEAR 2021-2022
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S.NO.	REG. NO	STUDENT NAME
1	411520106001	M. ABINAYA
2	411520106002	P ARAVINTH SANKAR
3	411520106003	K. ARULMANI
4	411520106004	R. ARUNRAJ
5	411520106005	B. ASHWIN
6	411520106006	S BALAJI
7	411520106007	V BALA KRISHNAN
8	411520106008	RAJA HEMACHANDRAN CHANDANA PRIYA
9	411520106009	S CHARUMATHI
10	411520106010	DEVARAPALLI VASANTHI
11	411520106011	K DHAMODARAN
12	411520106012	N. DIVIESH
13	411520106013	P ELIZABETH
14	411520106015	N GOMATHI
15	411520106016	GOTHALA VIKASH
16	411520106017	S. GOWTHAM
17	411520106018	S. HARISHBALAJIKANNA
18	411520106019	R. INDUJAA
19	411520106020	D. JANAKI.
20	411520106021	M. JAYAKUMAR
21	411520106023	OM JAYASHAKTHI
22	411520106024	R KAKA MAGESH BABU
23	411520106025	N KARTHIK
24	411520106026	A. KAVIYA
25	411520106027	A. MANIKANDAN
26	411520106028	M MUGILA
27	411520106029	P. NAVEEN
28	411520106030	S. NIDHEESH RAJ
29	411520106031	R PRADEEP
30	411520106032	A PRADEEP KUMAR
31	411520106033	R. PRATHABA RUTHIRAN
32	411520106034	V SABARINATHAN
33	411520106035	R. SANMUGAPRIYA
34	411520106036	S. SARMITHA
35	411520106037	N SHALINI
36	411520106038	S SIDDIQUE

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ACADEMIC YEAR 2021-2022
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37	411520106039	S SIVAPRAKASH
38	411520106041	V SRINIVASAN
39	411520106042	R SUSMITHA
40	411520106043	V. THATCHAYANI
41	411520106044	C THAVASIRAM
42	411520106045	B. THOLKAPPIYAN
43	411520106046	U UMA MAGESHWARI
44	411520106047	R UPPILI
45	411520106048	VADLAMANI DINESH
46	411520106049	S VIDHYA
47	411520106301	S. BOOPALAN
48	411520106302	G MAGIMAIRAJ
49	411520106303	N SANDHIYA
50	411520106304	R SANJAY
51	411520106305	A. SARAVANA KUMAR
52	411520106307	P SWETHA
53	411520106308	P VIGNESH
54	411520106701	A SIVAPRAKASH

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PERI INSTITUTE OF TECHNOLOGY
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Attendance Report-Microprocessor and Microcontroller

S.NO	REG. NO.	NAME OF THE STUDENT	22.01.22	24.01.22	25.01.22	27.01.22	28.01.22
1	411520106001	M. ABINAYA					
2	411520106002	P ARAVINTH SANKAR					
3	411520106003	K. ARULMANI					
4	411520106004	R. ARUNRAJ					
5	411520106005	B. ASHWIN					
6	411520106006	S BALAJI					
7	411520106007	V BALA KRISHNAN					
8	411520106008	CHANDANA PRIYA					
9	411520106009	S CHARUMATHI					
10	411520106010	DEVARAPALLI VASANTHI					
11	411520106011	K DHAMODARAN					
12	411520106012	N. DIVIESH					
13	411520106013	P ELIZABETH					
14	411520106015	N GOMATHI					
15	411520106016	GOTHALA VIKASH					
16	411520106017	S. GOWTHAM					
17	411520106018	S. HARISHBALAJIKANNA					
18	411520106019	R. INDUJAA					
19	411520106020	D. JANAKI.					
20	411520106021	M. JAYAKUMAR					
21	411520106023	OM JAYASHAKTHI					
22	411520106024	R KAKA MAGESH BABU					
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24	411520106026	A. KAVIYA					
25	411520106027	A. MANIKANDAN					
26	411520106028	M MUGILA					
27	411520106029	P. NAVEEN					
28	411520106030	S. NIDHEESH RAJ					

29	411520106031	R PRADEEP	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep
30	411520106032	A PRADEEP KUMAR	P.D.K	P.D.K	P.D.K	P.D.K	P.D.K
31	411520106033	R. PRATHABA RUTHIRAN	PTRN	PTRN	PTRN	PTRN	PTRN
32	411520106034	V SABARINATHAN					
33	411520106035	R. SANMUGAPRIYA					
34	411520106036	S. SARMITHA					
35	411520106037	N SHALINI	Shalini	Shalini	Shalini	Shalini	Shalini
36	411520106038	S SIDDIQUE	S	S	S	S	S
37	411520106039	S SIVAPRAKASH					
38	411520106041	V SRINIVASAN					
39	411520106042	R SUSMITHA					
40	411520106043	V. THATCHAYANI					
41	411520106044	C THAVASIRAM					
42	411520106045	B. THOLKAPPIYAN					
43	411520106046	U UMA MAGESHWARI					
44	411520106047	R UPPILI	Uppili	Uppili	Uppili	Uppili	Uppili
45	411520106048	VADLAMANI DINESH					
46	411520106049	S VIDHYA	Vidhya	Vidhya	Vidhya	Vidhya	Vidhya
47	411520106301	S. BOOPALAN					
48	411520106302	G MAGIMAIRAJ					
49	411520106303	N SANDHIYA					
50	411520106304	R SANJAY	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
51	411520106305	A. SARAVANA KUMAR					
52	411520106306	K SATHISH					
53	411520106307	P SWETHA					
54	411520106308	P VIGNESH	VIGNESH	VIGNESH	VIGNESH	VIGNESH	VIGNESH
55	411520106701	A SIVAPRAKASH					
PRESENT			55	55	55	55	55
ABSENT			—	—	—	—	—

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE -I 8086 ARCHITECTURE: Architecture of 8086, Register Organization, Programming Model, Memory addresses, Memory Segmentation, Physical Memory Organization, Signal descriptions of 8086- Common Function Signals, Minimum and Maximum mode signals, Timing diagrams.

MODULE-II INSTRUCTION SET AND ASSEMBLY LANGUAGE PROGRAMMING OF 8086: Instruction formats, Addressing modes, Instruction Set, Assembler Directives, Procedures, Macros, Simple Programs involving Logical, Branch and Call Instructions, Sorting, Evaluating Arithmetic Expressions, String Manipulations.

MODULE-III I/O INTERFACE: 8255 PPI, Various Modes of Operation and Interfacing to 8086, D/A and A/D Converter, Stepper motor, Interfacing of DMA controller 8257 **INTERFACING WITH ADVANCED DEVICES:** Memory Interfacing to 8086, Interrupt Structure of 8086, Vector Interrupt Table, Interrupt Service Routine, architecture of 8259. **COMMUNICATION INTERFACE**: Serial Communication Standards, Serial Data Transfer Schemes, 8251 USART Architecture and Interfacing.

MODULE-IV INTRODUCTION TO MICROCONTROLLERS: Overview of 8051 Microcontroller, Architecture, I/O Ports, Memory Organization, Addressing Modes and Instruction set of 8051, Simple Programs, memory interfacing to 8051

MODULE-V 8051 REAL TIME CONTROL: Programming Timer Interrupts, Programming External Hardware Interrupts, Programming the Serial Communication Interrupts, Programming 8051 Timers and Counters

ARM PROCESSOR: Fundamentals, Registers, Current program status register, Pipeline, Interrupt and the vector table.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT ON MICROPROCESSOR AND MICROCONTROLLER

1. In 8086 the number of bytes which can be addressed directly is about

A. 1000

B. 10000

C. 100000

D. one million

42/50

2. In Fortran 77 a variable name can contain special characters.

A. True

B. False

K. Rao

3. Which of the following is not a general purpose peripheral?

A. I/O port

B. Programmable interrupt controller

C. Programmable CRT controller

D. Programmable interval timer

4. Each instruction in assembly language program has the following fields:

A. Lable field

B. Mnemonic field

C. Operand field

D. Comment field

5.The correct sequence of these fields is?

A. 1, 2, 3, 4

B. 1, 2, 4, 3

C. 2, 1, 3, 4

D. 2, 1, 4, 3

6. In one's complement 8 bit representation 11111111 represents

A. +0

B. -0

C. +1

D. -1

7. The operating modes of 8255 A are called

A. mode 0 and mode 1

B. mode 0, mode 1 and mode 2

C. mode 0 and mode 2

D. mode 0, mode 2 and mode 3

8. Which of the following is type declaration statement in C?

A. int bar

B. s = s + 1

C. king = horse + 1

D. prin = prin * prin

9. Internet is a worldwide network of computers where most of the information is freely available.

A. True

B. False

10. A 37 bit mantissa has an accuracy of

A. 6 decimal places

B. 8 decimal places

C. 10 decimal places

D. 11 decimal places

11. In a C expression using assignment operators, relational operators and arithmetic operators, the hierarchy of operations (in the absence of parenthesis) is

A. assignment, relational, arithmetic

B. relational, assignment, arithmetic

C. arithmetic, assignment, relational

D. arithmetic, relational, assignment

12. In 8085, the pins for SID and SOD are

A. 4 and 5 respectively

B. 5 and 4 respectively

C. 3 and 4 respectively

D. 4 and 3 respectively

13. Assertion (A): Each memory chip has its own address latch.

Reason (R): ALE signal comes out of microprocessor 8085 and goes to memory chip.

A. Both A and R are correct and R is correct explanation of A

B. Both A and R are correct but R is not correct explanation of A

C. A is correct R is wrong

D. A is wrong R is correct

14. An e-mail message can be sent to many recipients.

A. True

B. False

15. In C the keywords are also called

A. special words

B. reserved words

C. class words

D. character words

16. The character set of Fortran 77 includes lower case alphabets a to z.

A. True

B. False

17. Which memory has read operation, byte erase, byte write and chip erase?

A. RAM

B. UVEPROM

C. EEPROM

D. both (b) and (c)

18. The forms of IF statements in FORTRAN 77 are called

A. logical IF and Block IF

B. logical IF, block IF and arithmetic IF

C. logic IF, block IF, arithmetic IF and negate IF

D. logical IF and arithmetic IF

19. In 8085

A. P flag is set when the result has even parity

B. P flag is set when the result has odd parity

C. P flag is reset when the result has odd parity

D. P flag is reset when the result has even parity

20. If the sign bit of mantissa is 0 and the exponent is increased from a positive to a more negative number the result is

A. a larger floating point number

B. a smaller floating point number

C. either (a) or (b) depending on the actual number

D. a negative floating point number

21.How many of microcontrollers are there based on bits?

One

Two

Three

Four

22. The microcontrollers based on memory classified into _____

8 bit, 16 bit, 32 bit

Embedded memory, external memory

RISC, CISC

All of the above

23. How many of microcontrollers are there based on instruction set?

One

Two

Three

Four

24. The 8-bit microcontrollers are used to execute _____

Arithmetic operations only

Logical operations only

Both a and b

None of the above

25. _____ is an example of 16 bit microcontroller

8031 microcontroller

8051 microcontroller

8096 microcontroller

None of the above

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

Ref: PERIIT/EEE/CC/2021-22/008 **Date: 06.04.2022**

CIRCULAR

The Electrical and Electronics Engineering Department of PERI IT has planned to conduct Add-on course titled "Leveraging Electric Vehicle Technology" for II, III and IV year EEE students.
CODE:EA009

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II/III/IV	27-04-2022 to 04-05-2022	8.30 AM to 11.45AM	12.30 PM to 03.30 PM

Coordinator **HoD/EEE**

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

TIME TABLE

Course Code : EA009

Course Name: Leveraging Electric Vehicle Technology

S.No	DATE	HOURS	TOPIC
1	27.04.2022	1st-6th	Overview of electric vehicle technology, Benefits and challenges of electric mobility, History and evolution of EVs
2	28.04.2022	1st-6th	Components of electric vehicles (battery, motor, controller, etc.), Types of electric vehicles (BEVs, PHEVs, HEVs), Vehicle electrification trends and innovations
3	29.04.2022	1st-6th	Understanding lithium-ion batteries, Battery pack design and architecture, Battery management systems (BMS) and thermal management
4	30.04.2022	1st-6th	Overview of charging infrastructure (home, public, fast charging), Smart charging solutions and grid integration, Challenges and opportunities in charging infrastructure deployment
5	02.05.2022	1st-6th	Global EV market trends and projections, Government policies and incentives for EV adoption, Emerging technologies and future outlook for electric mobility, Environmental and economic impacts of EV adoption
6	03.05.2022	1st-5th	Environmental benefits of electric vehicles (reduced emissions, energy efficiency), Economic considerations (total cost of ownership, return on investment), Lifecycle analysis and sustainability aspects of electric mobility
7	04.05.2022	1st-5th	Synergies between electric vehicles and renewable energy sources, Vehicle-to-grid (V2G) technology and grid stability, Opportunities for integrating EVs with solar, wind, and other renewables

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

II - EEE

S. No	Register Number	Student Name
1.	411520105001	Arunachalam R L
2.	411520105003	Chandru S
3.	411520105004	Janarthanan K
4.	411520105005	Jayanth D
5.	411520105006	Keerthana V
6.	411520105007	Krishnakumar R
7.	411520105008	Nitheesh A
8.	411520105009	Pavithra C
9.	411520105010	Poovarasan A
10.	411520105011	Praveenkumar A
11.	411520105012	Rajkumar R
12.	411520105013	Ramya S
13.	411520105014	Saravanan E
14.	411520105015	Sivaramakrishnan R
15.	411520105016	Srikanth G
16.	411520105017	Vigneshwaran G
17.	411520105018	Yuvashree M
18.	411520105301	Abishek Samuel B
19.	411520105302	Anuramabarathi S
20.	411520105304	Dinesh Kumar P
21.	411520105307	Gokul S
22.	411520105308	Hariharan S
23.	411520105309	Harish P
24.	411520105310	Harish R
25.	411520105311	Jancy Reena P
26.	411520105312	Jayanthan S
27.	411520105313	Kavikumar M
28.	411520105314	Kingslin A
29.	411520105315	Mariyakalai P
30.	411520105316	Mohan R
31.	411520105319	Nivetha S
32.	411520105320	Poovarasan M
33.	411520105321	Prasanth K
34.	411520105323	Rajesh S
35.	411520105324	Sarvesh S
36.	411520105326	Sowndarya S
37.	411520105327	Sridharan P
38.	411520105328	Srinath K
39.	411520105329	Sumithra S
40.	411520105330	Suresh M

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

III - EEE

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1.	411519105001	Abimanyu S
2.	411519105002	Archanajenifer C
3.	411519105003	Balaji S
4.	411519105004	Dinesh J
5.	411519105005	Durairaj M
6.	411519105006	Hariharan R
7.	411519105007	Iyappan P
8.	411519105008	Ponnarasi K
9.	411519105009	Savitha R
10.	411519105010	Surya P
11.	411519105011	Vinothkumar M

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

IV – EEE

S. No	Register Number	Student Name
1.	411518105002	Ahalya M
2.	411518105003	Askar Ali T
3.	411518105004	Bharathi M
4.	411518105005	Dasaradhan S
5.	411518105006	Dharanimaran A
6.	411518105007	Jeeva J
7.	411518105008	Jeevagan S
8.	411518105009	Jeevitha V
9.	411518105010	Magesh B K
10.	411518105011	Mohanasri L
11.	411518105012	Mukesh E
12.	411518105013	Rajkumar M
13.	411518105014	Ritu waliya
14.	411518105015	Sanjay V
15.	411518105016	Sathish Balaji S
16.	411518105017	Subashini D
17.	411518105019	Thanigaimalai J S
18.	411518105020	Vignesh S
19.	411518105301	Jayakandan S
20.	411518105701	Rojan Steavewak A

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

Attendance

Course Code : EA009

Course Name: Leveraging Electric Vehicle Technology

S. No	Register Number	Name of the Student	Date						
			27.04.2022	28.04.2022	29.04.2022	30.04.2022	02.05.2022	03.05.2022	04.05.2022
II - EEE									
1.	411520105001	Arunachalam R L							
2.	411520105003	Chandru S							
3.	411520105004	Janarthanan K							
4.	411520105005	Jayanth D							
5.	411520105006	Keerthana V							
6.	411520105007	Krishnakumar R							
7.	411520105008	Nitheesh A							
8.	411520105009	Pavithra C							
9.	411520105010	Poovarasan A							
10.	411520105011	Praveenkumar A							
11.	411520105012	Rajkumar R							
12.	411520105013	Ramya S							
13.	411520105014	Saravanan E							
14.	411520105015	Sivaramakrishnan R							
15.	411520105016	Srikanth G							
16.	411520105017	Vigneshwaran G							

17.	411520105018	Yuvashree M								
18.	411520105301	Abishek Samuel B								
19.	411520105302	Anuramabarathi S								
20.	411520105304	Dinesh Kumar P								
21.	411520105307	Gokul S								
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35.	411520105324	Sarvesh S								
36.	411520105326	Sowndarya S								
37.	411520105327	Sridharan P								
38.	411520105328	Srinath K								
39.	411520105329	Sumithra S								
40.	411520105330	Suresh M								
41.	411520105331	Thirsha M								
42.	411520105332	Thomas Richard M								
43.	411520105333	Varshini R								
44.	411520105334	Velu P								
45.	411520105335	Venkatesh M								

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1.	411519105001	Abimanyu S								
2.	411519105002	Archanajenifer C								
3.	411519105003	Balaji S								
4.	411519105004	Dinesh J								

5.	411519105005	Durairaj M							
6.	411519105006	Hariharan R							
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8.	411519105008	Ponnarasi K							
9.	411519105009	Savitha R							
10.	411519105010	Surya P							
11.	411519105011	Vinothkumar M							

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1.	411518105002	Ahalya M							
2.	411518105003	Askar Ali T							
3.	411518105004	Bharathi M							
4.	411518105005	Dasaradhan S							
5.	411518105006	Dharanimaran A							
6.	411518105007	Jeeva J							
7.	411518105008	Jeevagan S							
8.	411518105009	Jeevitha V							
9.	411518105010	Magesh B K							
10.	411518105011	Mohanasri L							
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13.	411518105014	Ritu waliya							
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15.	411518105016	Sathish Balaji S							
16.	411518105017	Subashini D							
17.	411518105019	Thanigaimalai J S							
18.	411518105020	Vignesh S							
19.	411518105301	Jayakandan S							
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

SYLLABUS

MODULE 1: INTRODUCTION TO ELECTRIC VEHICLES

Overview of electric vehicle technology, Benefits and challenges of electric mobility, History and evolution of EVs

MODULE 2: ELECTRIC VEHICLE COMPONENTS AND DESIGN

Components of electric vehicles (battery, motor, controller, etc.), Types of electric vehicles (BEVs, PHEVs, HEVs), Vehicle electrification trends and innovations

MODULE 3: BATTERY TECHNOLOGY AND MANAGEMENT

Understanding lithium-ion batteries, Battery pack design and architecture, Battery management systems (BMS) and thermal management

MODULE 4: CHARGING INFRASTRUCTURE AND GRID INTEGRATION

Overview of charging infrastructure (home, public, fast charging), Smart charging solutions and grid integration, Challenges and opportunities in charging infrastructure deployment

MODULE 5: ELECTRIC VEHICLE MARKET ANALYSIS AND FUTURE PERSPECTIVES

Global EV market trends and projections, Government policies and incentives for EV adoption, Emerging technologies and future outlook for electric mobility, Environmental and economic impacts of EV adoption

MODULE 6: ENVIRONMENTAL AND ECONOMIC IMPACTS

Environmental benefits of electric vehicles (reduced emissions, energy efficiency), Economic considerations (total cost of ownership, return on investment), Lifecycle analysis and sustainability aspects of electric mobility

MODULE 7: INTEGRATION WITH RENEWABLE ENERGY

Synergies between electric vehicles and renewable energy sources, Vehicle-to-grid (V2G) technology and grid stability, Opportunities for integrating EVs with solar, wind, and other renewables

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AHALYA.M
IV - EEE

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

Assessment

23/25
Vijayarani
A/F/22.

Course Code : EA009
Course Name: Leveraging Electric Vehicle Technology

1. When was the first electric car invented?
   a) 1830
   b) 1885
   c) 1832
   d) 1845

2. The shape of pantograph collector is _____
   a) Square
   b) Pentagon
   c) Circle
   d) Hexagon

3. Full form of EMU is _____
   a) Electronics Multiple unit
   b) Electrical Multiple Unit
   c) Electrical Multiple Usage
   d) Electrical Multiple User

4. Who is known as the Father of Indian Railways ?
   a) Lord Dalhousie
   b) Lord Ripon
   c) Lord Boult
   d) Lord Hero

5. Who built the first train ?
   a) Richardson
   b) Rampa
   c) Richard Trevithik
   d) John Carry

6. Who built the first bullet train ?
   a) Hideo Rampa
   b) Hideo Shima
   c) Hideo Carry
   d) Hideo Stokes

7. The supply conductor in electric trains is also known as _____
   a) Contact Wire
   b) Contact Distance
   c) Contact Direction
   d) Supply Wire

8. Calculate the value measured by PMMC when a sinusoidal voltage signal is applied to it.
   a) 15 V
   b) 0 V
   c) 16 V
   d) 18 V

9. Full form of PMMC is _____
   a) Permanent Magnet Moving Coil
   b) Premature Magnet Moving Coil
   c) Permanent Magnet Motion Coil
   d) Peterson Magnet Motion Coil

10. Fuel used in the train is _____
   a) Diesel
   b) Kerosene
   c) Petrol
   d) Ice

11. How much fuel does a train use per Km?
   a) 7.85 L/Km
   b) 7.97 L/Km
   c) 6.59 L/Km
   d) 7.15 L/Km

12. Which motor is used in the Electric train?
   a) DC shunt motor
   b) DC series motor
   c) Synchronous motor
   d) Stepper motor

13. If the friction force value is doubled, calculate the new value of the coefficient of friction.
   a) 4 times of the original value
   b) 2 times of the original value
   c) 7 times of the original value
   d) Remains the same

14. The frictional force always acts in the _____ direction of motion of the body.
   a) Opposite
   b) Same
   c) Perpendicular
   d) Vertical

15. Calculate the coefficient of friction if the angle of inclination is 60°.
   a) 2.73
   b) 1.73
   c) 2.48
   d) 1.41

16. Which one of the following is the correct relationship?
   a) $F=\mu R$
   b) $F=4\mu R$
   c) $F=3\mu R$
   d) $F=2\mu R$

17. The value of area under a velocity-time graph is _____
    a) Acceleration
    b) Displacement
    c) Force
    d) Momentum

18. The value of area under acceleration-time graph is _____
    a) Velocity
    b) Displacement
    c) Force
    d) Impulse

19. The value of area under force-time graph is _____
    a) Reaction
    b) Change in momentum
    c) Force
    d) Torque

20. Full form of HVDC is _____
    a) High Voltage Direct Current
    b) High Voltage Distribution Combination
    c) High-Value Direct Current
    d) High-Value Distribution Combination

21. Full form of HVAC is _____
    a) High Voltage Alternative Current
    b) High Voltage Alternating Current
    c) High-Value Alternating Combination
    d) High-Value Alternative Counter

22. Full form of SVC is _____
    a) Static Var Compensator
    b) Static Variable Counter
    c) State Value Counter
    d) Static Value Compensator

23. Full form of STATCOM is _____
    a) Static Synchronous Counter
    b) Static Synchronous Compensator
    c) State Synchronized Compensator
    d) State System Counter

24. The circuit which operates signals is called as _____
    a) Track circuit
    b) Fellow circuit
    c) Ground circuit
    d) Unit circuit

25. Which is the most severe type of fault?
    a) LL
    b) LLG
    c) LLL
    d) LLLG

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

Ref: PERIIT/EEE/CC/2021-22/009 **Date: 18.04.2022**

CIRCULAR

The Electrical and Electronics Engineering Department of PERI IT has planned to conduct Add-on course titled "Design Thinking and Electrical Design Development" for II, III and IV year EEE students.

CODE:EA010

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II/III/IV	07-05-2022 to 12-05-2022	8.30 AM to 11.45AM	12.30 PM to 03.30 PM

Coordinator **HoD/EEE**

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2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

TIME TABLE

Course Code : EA010

Course Name: Design Thinking and Electrical Design Development

S.No	DATE	HOURS	TOPIC
1	07.05.2022	1st-6th	Overview of design thinking principles, Introduction to the double diamond design process, Understanding the role of empathy in electrical design, Fundamentals of electrical engineering concepts
2	09.05.2022	1st-6th	Techniques for empathizing with end-users in electrical design contexts, Methods for defining design challenges and problem statements, Case studies and exercises focusing on user-centered design in electrical engineering
3	10.05.2022	1st-6th	Creative brainstorming techniques for generating electrical design concepts, Rapid prototyping methods for exploring and testing ideas, Tools and resources for creating prototypes in electrical engineering
4	11.05.2022	1st-6th	Strategies for gathering feedback from users and stakeholders, Techniques for evaluating and iterating on electrical design prototypes, Importance of iteration and refinement in the design process, Case studies and real-world examples of successful iteration in electrical design projects
5	12.05.2022	1st-6th	Integration of user feedback and design improvements into final electrical design solutions, Principles of system integration and optimization in electrical engineering, Ethical considerations and sustainability in electrical design

Coordinator

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HoD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

II - EEE

S. No	Register Number	Student Name
1.	411520105001	Arunachalam R L
2.	411520105003	Chandru S
3.	411520105004	Janarthanan K
4.	411520105005	Jayanth D
5.	411520105006	Keerthana V
6.	411520105007	Krishnakumar R
7.	411520105008	Nitheesh A
8.	411520105009	Pavithra C
9.	411520105010	Poovarasan A
10.	411520105011	Praveenkumar A
11.	411520105012	Rajkumar R
12.	411520105013	Ramya S
13.	411520105014	Saravanan E
14.	411520105015	Sivaramakrishnan R
15.	411520105016	Srikanth G
16.	411520105017	Vigneshwaran G
17.	411520105018	Yuvashree M
18.	411520105301	Abishek Samuel B
19.	411520105302	Anuramabarathi S
20.	411520105304	Dinesh Kumar P
21.	411520105307	Gokul S
22.	411520105308	Hariharan S
23.	411520105309	Harish P
24.	411520105310	Harish R
25.	411520105311	Jancy Reena P
26.	411520105312	Jayanthan S
27.	411520105313	Kavikumar M
28.	411520105314	Kingslin A
29.	411520105315	Mariyakalai P
30.	411520105316	Mohan R
31.	411520105319	Nivetha S
32.	411520105320	Poovarasan M
33.	411520105321	Prasanth K
34.	411520105323	Rajesh S
35.	411520105324	Sarvesh S
36.	411520105326	Sowndarya S
37.	411520105327	Sridharan P
38.	411520105328	Srinath K
39.	411520105329	Sumithra S
40.	411520105330	Suresh M

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

III - EEE

S. No	Register Number	Student Name
1.	411519105001	Abimanyu S
2.	411519105002	Archanajenifer C
3.	411519105003	Balaji S
4.	411519105004	Dinesh J
5.	411519105005	Durairaj M
6.	411519105006	Hariharan R
7.	411519105007	Iyappan P
8.	411519105008	Ponnarasi K
9.	411519105009	Savitha R
10.	411519105010	Surya P
11.	411519105011	Vinothkumar M

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

IV – EEE

S. No	Register Number	Student Name
1.	411518105002	Ahalya M
2.	411518105003	Askar Ali T
3.	411518105004	Bharathi M
4.	411518105005	Dasaradhan S
5.	411518105006	Dharanimaran A
6.	411518105007	Jeeva J
7.	411518105008	Jeevagan S
8.	411518105009	Jeevitha V
9.	411518105010	Magesh B K
10.	411518105011	Mohanasri L
11.	411518105012	Mukesh E
12.	411518105013	Rajkumar M
13.	411518105014	Ritu waliya
14.	411518105015	Sanjay V
15.	411518105016	Sathish Balaji S
16.	411518105017	Subashini D
17.	411518105019	Thanigaimalai J S
18.	411518105020	Vignesh S
19.	411518105301	Jayakandan S
20.	411518105701	Rojan Steavewak A

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

Attendance

Course Code : EA010

Course Name: Design Thinking and Electrical Design Development

S. No	Register Number	Name of the Student	Date				
			07.05.2022	09.05.2022	10.05.2022	11.05.2022	12.05.2022
			II - EEE				
1.	411520105001	Arunachalam R L					
2.	411520105003	Chandru S					
3.	411520105004	Janarthanan K					
4.	411520105005	Jayanth D					
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38.	411520105328	Srinath K					
39.	411520105329	Sumithra S					
40.	411520105330	Suresh M					
41.	411520105331	Thirsha M					
42.	411520105332	Thomas Richard M					
43.	411520105333	Varshini R					
44.	411520105334	Velu P					
45.	411520105335	Venkatesh M					
		III - EEE					
1.	411519105001	Abimanyu S					
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8.	411519105008	Ponnarasi K					
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11.	411519105011	Vinothkumar M					
		IV - EEE					
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17.	411518105019	Thanigaimalai J S					
18.	411518105020	Vignesh S					
19.	411518105301	Jayakandan S					
20.	411518105701	Rojan Steavewak A					

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PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

SYLLABUS

MODULE 1: INTRODUCTION TO DESIGN THINKING AND ELECTRICAL DESIGN

Overview of design thinking principles, Introduction to the double diamond design process, Understanding the role of empathy in electrical design, Fundamentals of electrical engineering concepts

MODULE 2: EMPATHIZE AND DEFINE

Techniques for empathizing with end-users in electrical design contexts, Methods for defining design challenges and problem statements, Case studies and exercises focusing on user-centered design in electrical engineering

MODULE 3: IDEATE AND PROTOTYPE

Creative brainstorming techniques for generating electrical design concepts, Rapid prototyping methods for exploring and testing ideas, Tools and resources for creating prototypes in electrical engineering

MODULE 4: TEST AND ITERATE

Strategies for gathering feedback from users and stakeholders, Techniques for evaluating and iterating on electrical design prototypes, Importance of iteration and refinement in the design process, Case studies and real-world examples of successful iteration in electrical design projects

MODULE 5: INTEGRATION AND APPLICATION

Integration of user feedback and design improvements into final electrical design solutions, Principles of system integration and optimization in electrical engineering, Ethical considerations and sustainability in electrical design

Coordinator

HoD/EEE

Ritu Waliya

IV - EEE

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022

Assessment

23/25

Vijayarani 12/5/22

Course Code : EA010
Course Name: Design Thinking and Electrical Design Development

1. What is Design Thinking?
   a) A process for creating software applications
   b) A creative problem-solving approach
   c) A design methodology for industrial products
   d) A project management methodology

2. Which of the following is not a stage in the Design Thinking process?
   a) Empathize
   b) Define
   c) Ideate
   d) Appraise

3. What is the first stage in the Design Thinking process?
   a) Define
   b) Ideate
   c) Empathize
   d) Prototype

4. Which of the following is not a principle of Design Thinking?
   a) Human-centeredness
   b) Bias towards action
   c) Collaboration
   d) Embrace uncertainty

5. In Design Thinking, what is a prototype?
   a) A functional product
   b) A blueprint for a product
   c) A test version of a product
   d) A conceptual model of a product

6. What is the goal of Design Thinking?
   a) To create visually appealing products
   b) To solve complex problems
   c) To minimize production costs
   d) To maximize profits

7. Software Design consists of _____.
   a) Software Product Design
   b) Software Engineering Design
   c) Software Product & Engineering Design
   d) None of the mentioned

8. Which of the following is true?
   a) Analysis – Solving problem
   b) Design – Understanding problem
   c) Analysis & Design
   d) None of the mentioned

9. Which of these are followed in case of software design process?
   a) Analysis occurs at start of product design with a product idea
   b) Analysis occurs at the end of engineering design with the SRS
   c) Product design resolution produces the design document
   d) Engineering design resolution produces the SRS

10. Which of these is not in sequence for generic design process?
   a) Analyze the Problem
   b) Evaluate candidate solutions
   c) Finalize the Design
   d) None of the mentioned

11. Why do you think iteration is important for design?
   a) To frequently reanalyze the problem
   b) To generate and improve solutions only once for better output
   c) All of the mentioned
   d) None of the mentioned

12. Which step among these follows the wrong sequence in software engineering design process?
   a) Analyze problem
   b) Generate candidate architecture
   c) Finalize design
   d) Select detailed design

13. Which of these is said to be true about resolution process in generic software engineering design process?
   a) Architectural design is low resolution process
   b) Detailed design is high resolution process
   c) All of the mentioned
   d) None of the mentioned

14. Generic software engineering design process defined by which of these steps?
   a) Generic software engineering design process first job after analysis is detailed design
   b) Attention is turned later to architectural design
   c) Architectural design is not followed by Detailed design
   d) All of the mentioned

15. Designs are periodically modified to
   a) improve product performance
   b) strive for zero-based rejection and waste
   c) make products easier and faster to manufacture
   d) all of the mentioned

16. What does top down process follow?
   a) The overall flow of activity during product design resolution is from higher to lower levels
   b) The overall flow of activity during product design resolution is from lower to higher levels
   c) All of the mentioned
   d) None of the mentioned

17. What are the most common scenarios for resolutions?
    a) Designers frequently work bottom up or skip levels of abstraction
    b) To specify some part of product design to its physical level details before others are specified
    c) All of the mentioned
    d) None of the mentioned

18. Collection of stakeholder needs is called?
    a) Requirements elicitation
    b) Requirements validation
    c) Needs Elicitation
    d) Requirements & Needs elicitation

19. Confirming with stakeholder that a product design satisfies their needs and desires are called?
    a) Requirements validation
    b) Requirements elicitation
    c) Requirements analysis
    d) None of the mentioned

20. Which of the following statement is false?
    a) A process is a collection of related tasks that transforms a set of inputs to the set of output
    b) A design notation is a symbolic representational system
    c) A design heuristic is a rule proceeding guidance, with guarantee for achieving some end
    d) Software design method is orderly procedure for providing software design solutions

21. What is incorrect about structural design?
    a) Structural design introduced notations and heuristics
    b) Structural design emphasis on procedural decomposition
    c) The advantage is data flow representation
    d) It follows Structure chart

22. What is the solution for Structural design?
    a) The specification model following data flow diagram
    b) Procedures represented as bubbles
    c) Specification model is structure chart showing procedure calling hierarchy and flow of data in and out of procedures
    d) Emphasizing procedural decomposition

23. Which of these are followed by the latest versions of structural design?
    a) More detailed and flexible processes
    b) Regular Notations
    c) Wide support by CASE(Computer Aided Software Engineering)
    d) Wide support by CASE, More detailed and flexible processes

24. Which of the following is an incorrect method for structural design?
    a) Transition of problem models to solution models
    b) Handling of larger and more complex products
    c) Designing Object oriented systems
    d) More procedural approach

25. What is followed by the design task?
    a) Choosing specific classes, operations
    b) Checking model's completeness
    c) Following design task heuristics
    d) All of the mentioned

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-2022

Ref: PERI IT /MECH /Add-On Course/2021-22/01 **Date: 07.02.2022**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct Add-on course titled **"Reverse Engineering and GD&T Application"** for the Academic year of 2022 – 2023 for II, III & IV year Mechanical students.

CODE:MEA002

Sl. No.	Year	Scheduled Date	Session 1	Session 2
1	II, III & IV	19.03.2022 -07.05.2022	8.30 AM to 11.45AM	12.30PM to3.30PM

Co-Ordinator

Head of the Department

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH
Mannivakkam, Ch-600 048.

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEA002 **Year/Semester: II,III,IV/IV,VI,VIII**

Course Name: Reverse Engineering and GD&T Application **Session: FN & AN**

Sl. No	DATE	HOURS	TOPICS
1	19.03.2022	1-6th	Understanding assembly theory, Creating New Assembly parts, Top Down assembly- Bottom Up assembly.
2	26.03.2022	1-6th	Introduction to mechanisms role in assembly, importance of Degree of Freedom, Basic Physical mechanisms like 4- bar mechanism, Rack & Pinion gear, Deltoid linkage, Gear meshing.
3	31.03.2022	1-6th	Assembly constraint status, Constraints like Coincidence, Concentric, Pin and Rigid. Exploring the dismantling method and analysis the errors in component structure.
4	13.04.2022	1-6th	Direction allocation for explosion, Exploded line, BOM, Balloons.
5	07.05.2022	1-6th	Rack & pinion assembly, Sun-Plant gear assembly, Differential unit assembly, Transmission system.

Coordinator

HOD/MECH

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Head of the Department
Dept. of Mechanical Engg.
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Mannivakkam, Ch-600 048.

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-2022

Participants Name List

Course Name - Reverse Engineering and GD&T Application

Course Code: MEA002 **Year/Semester: IV / VIII**

Sl. No	Registration Number	Student Name
1	411518114001	AJAY N
2	411518114002	AJITH KUMAR S
3	411518114003	ALLWIN RAJ SUDHAN A
4	411518114004	AMARNATH S
5	411518114005	ARAVINTH R
6	411518114006	ARUN S G
7	411518114007	AVINASH R
8	411518114008	BALAJI K
9	411518114009	BHUVAN RAJ P
10	411518114010	CHANDRASEKAR G
11	411518114011	CHANDRU A
12	411518114012	DEVENDARAKUMARAN
13	411518114013	DILLIBABU E P
14	411518114014	DIVYA S
15	411518114015	GANGULY R
16	411518114016	GOKUL S
17	411518114017	GOWTHAM T
18	411518114018	HARISH R
19	411518114019	HARISUDHAN S
20	411518114020	HEMANTH KUMAR R
21	411518114021	JAINULABDEEN J
22	411518114022	JAWAHAR S
23	411518114024	KAARTHI R A
24	411518114025	KADURU VINOD KUMAR
25	411518114026	KARTHICK K

Sl. No	Registration Number	Student Name
26	411518114027	KARTHIKEYAN M
27	411518114028	KUMARESAN P
28	411518114029	LAKSHMANA PRABU K
29	411518114030	MAADESHWARAN A
30	411518114031	MANIGANDAN A
31	411518114032	MANIKANDAN P
32	411518114033	MATHIBHAVAN D
33	411518114034	MITHUN A
34	411518114035	MUTHU PRAKASH V
35	411518114037	NAVEEN R
36	411518114039	PONNAPALLI SAISUMANTH
37	411518114040	PRAVEEN KUMAR B
38	411518114041	RAGURAJ B
39	411518114042	RAHUL V
40	411518114043	RAJASRINIVASAN K
41	411518114044	RAJESHKUMAR M
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48	411518114053	SUGAN R
49	411518114054	SURENDRAN P S
50	411518114055	SURYA L

51	411518114056	SURYA M
52	411518114057	VEERAMANI J
53	411518114058	VIGNESH K
54	411518114059	VIGNESHWARAN V
55	411518114301	DINESH S
56	411518114302	RAVIKUMAR S
57	411518114303	SUNI KAMALESH K

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2021-2022
Participants Name List
Course Name - Reverse Engineering and GD&T Application
Course Code: MEA002 **Year/Semester: III / VI**

S No	Reg No	Name
1	411519114001	G. AJITH KUMAR
2	411519114002	A. AKASH
3	411519114003	C ARUN
4	411519114004	M. FAREED
5	411519114005	K. GANESH KUMAR
6	411519114006	R HARI KRISHNAN
7	411519114007	V MITHRAN
8	411519114008	M. MOHAMMED RAZOOL
9	411519114009	S. MUGUNTHARAJ
10	411519114010	M.T. NAVEEN
11	411519114011	S NEELAGANDAN
12	411519114012	T PRADEEP RAJ
13	411519114013	A. RAJ
14	411519114015	G SABARI VASAN
15	411519114016	A SANDEESH KUMAR

S No	Reg No	Name
16	411519114018	V. SATHISH
17	411519114019	K. SATHISH KUMAR
18	411519114020	S SELVINRAJ
19	411519114021	V. SIVAKUMAR
20	411519114022	B SURYA NARAYANAN
21	411519114023	M THAHA MOHAMED
22	411519114301	S ABDUL RAJACQ
23	411519114302	AJAY MATHEW
24	411519114303	MATHAN
25	411519114305	S NAGACHARAN
26	411519114306	P. SARAVANAKUMAR.
27	411519114307	N. SUNIL.
28	411519114308	TAMILARASAN
29	411519114309	VALLARASU
30	411519114310	SHYAM KUMAR

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2021-2022
Participants Name List
Course Name - Reverse Engineering and GD&T Application
Course Code: MEA002 **Year/Semester: II / IV**

Sl. NO	REG NO	NAME
1	411520114001	ABINESH N R
2	411520114002	DHARANI DHARAN P
3	411520114003	DHARANI VARAN T
4	411520114004	GOWTHAM K
5	411520114005	KARTHIK N
6	411520114006	MOHAMMED KANNI A
7	411520114007	NITHYANANDHAM S
8	411520114008	PUVIRASAN
9	411520114009	RAJESH G
10	411520114010	RITHWIK E B
11	411520114011	ROOBAN DHARMARAJ K
12	411520114012	SANTHOSH KUMAR R
13	411520114013	SARANRAJ S
14	411520114014	SATHISH M
15	411520114015	SRIDHARAN S
16	411520114016	SUGADEV V
17	411520114017	TAMIL SELVAN C
18	411520114018	TAMILSELVAN V
19	411520114301	AJITH S
20	411520114302	AKILAN G
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22	411520114304	ARJUN K
23	411520114305	BALA ASHWIN D
24	411520114306	BALACHANDAR S
25	411520114307	BALAMURUGAN P
26	411520114308	DEEPAK R
27	411520114309	GEETHAPRIYAN M G

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28	411520114310	GOKULRAJ R
29	411520114311	GOWTHAM P
30	411520114312	JOSHUA A
31	411520114313	JOSHUA DANIEL M
32	411520114314	KISHORE B
33	411520114316	MANIKANDAN S
34	411520114317	MUKESH R
35	411520114318	MURALIDHARAN S
36	411520114319	NANDHAKUMAR S
37	411520114320	OM PRAKASH R
38	411520114321	PRASANTH M
39	411520114322	PRATHIBAN T
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41	411520114325	SAARATHY A
42	411520114326	SANJAY D
43	411520114327	SARAVANAKUMAR P
44	411520114328	SARAVANAN D
45	411520114329	SELVIN GINO S
46	411520114330	SUBASH E
47	411520114331	SUBBRAMANIAN S
48	411520114333	SURIYA P
49	411520114334	SYED ALI F
50	411520114335	SYED GAYAZ BASHA H
51	411520114336	SYED RISWAN BASHA H
52	411520114337	VASUDEVAN R
53	411520114338	VETRIMURUGAN S
54	411520114341	ANAND JOTHI

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2021-2022
Attendance Sheet
Course Name: REVERSE ENGINEERING AND GD&T APPLICATION

Course Code: MEA002 **Year/Semester: II,III,IV / IV,VI,VIII**

Sl. No	Registration Number	Student Name	19.03.22	26.03.22	31.03.23	13.04.22	07.05.22
Final year							
1	411518114001	AJAY N	Ajay.N	Ajay .N	Ajay N	Ajay N	Ajay .N
2	411518114002	AJITH KUMAR S					
3	411518114003	ALLWIN RAJ SUDHAN A	Sudhan	Sudhan	Sudhan	Sudhan	Sudhan
4	411518114004	AMARNATH S					
5	411518114005	ARAVINTH R					
6	411518114006	ARUN S G	SG. Arun	SG. Arun	SG. Arun	SG. Arun	SG. Arun
7	411518114007	AVINASH R					
8	411518114008	BALAJI K	Balaji.K	Balaji.K	Balaji.K	Balaji.K	Balaji.K
9	411518114009	BHUVAN RAJ P					
10	411518114010	CHANDRASEKAR G					
11	411518114011	CHANDRU A	chandru	chandru	chandru	chandru	chandru
12	411518114012	DEVENDARAKUMARAN					
13	411518114013	DILLIBABU E P	Dillibabu	Dillibabu	Dillibabu	Dillibabu	Dillibabu
14	411518114014	DIVYA S					
15	411518114015	GANGULY R					
16	411518114016	GOKUL S	Gokul	Gokul	Gokul	Gokul	Gokul
17	411518114017	GOWTHAM T	Gowtham	Gowtham	Gowtham	Gowtham	Gowtham
18	411518114018	HARISH R	Harish.R	Harish.R	Harish.R	Harish.R	Harish.R
19	411518114019	HARISUDHAN S					
20	411518114020	HEMANTH KUMAR R					
21	411518114021	JAINULABDEEN J					
22	411518114022	JAWAHAR S	Jawahar	jawahar	jawahar	jawahar	jawahar
23	411518114024	KAARTHI R A	Kaarthi	Kaarthi	kaarthi	kaarthi	kaarthi
24	411518114025	KADURU VINOD KUMAR					

25	411518114026	KARTHICK K					
26	411518114027	KARTHIKEYAN M					
27	411518114028	KUMARESAN P					
28	411518114029	LAKSHMANA PRABU K					
29	411518114030	MAADESHWARAN A					
30	411518114031	MANIGANDAN A					
31	411518114032	MANIKANDAN P					
32	411518114033	MATHIBHAVAN D					
33	411518114034	MITHUN A					
34	411518114035	MUTHU PRAKASH V					
35	411518114037	NAVEEN R					
36	411518114039	PONNAPALLI SAISUMANTH					
37	411518114040	PRAVEEN KUMAR B					
38	411518114041	RAGURAJ B					
39	411518114042	RAHUL V					
40	411518114043	RAJASRINIVASAN K					
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54	411518114059	VIGNESHWARAN V					
55	411518114301	DINESH S					
56	411518114302	RAVIKUMAR S					
57	411518114303	SUNI KAMALESH K					

THIRD YEAR							
1	411519114001	G. AJITH KUMAR					
2	411519114002	A. AKASH					
3	411519114003	C ARUN					
4	411519114004	M. FAREED					
5	411519114005	K. GANESH KUMAR					
6	411519114006	R HARI KRISHNAN					
7	411519114007	V MITHRAN					
8	411519114008	M. MOHAMMED RAZOOL					
9	411519114009	S. MUGUNTHARAJ					
10	411519114010	M.T. NAVEEN					
11	411519114011	S NEELAGANDAN					
12	411519114012	T PRADEEP RAJ					
13	411519114013	A. RAJ					
14	411519114015	G SABARI VASAN					
15	411519114016	A SANDEESH KUMAR					
16	411519114018	V. SATHISH					
17	411519114019	K. SATHISH KUMAR					
18	411519114020	S SELVINRAJ					
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23	411519114302	AJAY MATHEW					
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26	411519114306	P. SARAVANAKUMAR.					
27	411519114307	N. SUNIL.					
28	411519114308	TAMILARASAN					
29	411519114309	VALLARASU					
30	411519114310	SHYAM KUMAR					

SECOND YEAR								
1	411520114001	ABINESH N R						
2	411520114002	DHARANI DHARAN P						
3	411520114003	DHARANI VARAN T						
4	411520114004	GOWTHAM K						
5	411520114005	KARTHIK N						
6	411520114006	MOHAMMED KANNI A						
7	411520114007	NITHYANANDHAM S						
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27	411520114309	GEETHAPRIYAN M G						
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DEPARTMENT OF MECHANICAL ENGINEERING

MEA002 - REVERSE ENGINEERING AND GD&T APPLICATION

SYLLABUS

Module 1: Introduction to Reverse Engineering

- Definition and purpose, Historical context and modern applications, Overview of the reverse engineering process
- Intellectual property rights, Ethical considerations in reverse engineering, Case studies of legal and ethical issues

Module 2: Tools and Techniques in Reverse Engineering

- Overview of measurement tools (calipers, micrometers, CMMs, 3D scanners), Techniques for accurate measurement, Hands-on lab: Using measurement tools
- Creating 2D drawings and 3D models, Software tools for digital modeling (e.g., AutoCAD, Solid Works)

Module 3: Analysis and Reconstruction in Reverse Engineering

- Analyzing measurement data, Identifying design features and functions, Case studies of reverse engineering projects, Techniques for reconstructing products
- Using CAD software for redesign

Module 4: Introduction to Geometric Dimensioning and Tolerancing (GD&T)

- Basic concepts and terminology, Importance of GD&T in engineering, Overview of GD&T symbols and standards, Form tolerances: flatness, straightness, circularity, cylindricity, Orientation tolerances: parallelism, perpendicularity, angularity.

Module 5: Advanced GD&T Applications, Integrating Reverse Engineering and GD&T

- Circular runout, total runout, Functional gauging techniques, Hands-on lab: Applying runout tolerances, Inspection methods and tools, Verifying GD&T specifications.
- Detailed analysis of reverse engineering and GD&T applications in industry, Discussion of success stories and challenges

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-2022

Assessment Test

MEA002 REVERSE ENGINEERING AND GD&T APPLICATION

1. What is the primary goal of reverse engineering?
   - A) To create new products from scratch
   - B) To understand and replicate existing products
   - C) To reduce manufacturing costs
   - D) To design marketing strategies
2. Which of the following is a common tool used in reverse engineering for creating digital models from physical parts?
   - A) CNC machine
   - B) 3D scanner
   - C) Injection molding machine
   - D) Lathe
3. What is a key legal consideration in reverse engineering?
   - A) Manufacturing efficiency
   - B) Intellectual property rights
   - C) Production speed
   - D) Supply chain management
4. Which of the following software is commonly used for creating 3D models in reverse engineering?
   - A) Microsoft Word
   - B) Adobe Illustrator
   - C) SolidWorks
   - D) QuickBooks
5. In reverse engineering, what is the purpose of a Coordinate Measuring Machine (CMM)?
   - A) To cut and shape materials
   - B) To measure the geometry of physical objects
   - C) To mix raw materials
   - D) To print documents
6. Which of the following is NOT a step in the reverse engineering process?
   - A) Disassembly
   - B) Analysis
   - C) Distribution
   - D) Documentation
7. What does GD&T stand for?
   - A) Geometric Drawing and Tuning
   - B) Geometric Design and Tuning
   - C) Geometric Dimensioning and Tolerancing
   - D) Geometric Drawing and Testing
8. What is the purpose of GD&T in engineering drawings?
   - A) To reduce the cost of materials
   - B) To specify allowable variations in part geometry

- C) To create artistic designs
- D) To manage project timelines

9. Which symbol in GD&T indicates flatness?
   - A) ○
   - B) ∥
   - C) ⌒
   - D) □
10. In GD&T, what does the term 'datum' refer to?
    - A) A reference point, line, or surface
    - B) A type of measurement tool
    - C) A material property
    - D) A manufacturing process
11. Which GD&T tolerance controls the allowable deviation of a surface from a specified line or plane?
    - A) Circularity
    - B) Perpendicularity
    - C) Flatness
    - D) Cylindricity
12. What does the position tolerance in GD&T control?
    - A) The form of a feature
    - B) The orientation of a feature
    - C) The location of a feature
    - D) The surface finish of a feature
13. Which GD&T symbol represents perpendicularity?
    - A) ⌀
    - B) ⊥
    - C) ∠
    - D) ≈
14. In reverse engineering, which step involves creating CAD models from measured data?
    - A) Disassembly
    - B) Documentation
    - C) Reconstruction
    - D) Analysis
15. What is the primary advantage of using 3D scanning in reverse engineering?
    - A) Reduces material costs
    - B) Increases product weight
    - C) Provides accurate digital models quickly
    - D) Enhances color quality
16. What type of tolerance is used in GD&T to control the size of a feature?
    - A) Profile tolerance
    - B) Form tolerance
    - C) Size tolerance
    - D) Orientation tolerance
17. Which GD&T tolerance would you use to control the roundness of a cylindrical feature?
    - A) Cylindricity

- B) Circularity
- C) Concentricity
- D) Symmetry

18. Which of the following is a primary reason for using GD&T in manufacturing?
    - A) To increase product color variety
    - B) To ensure part interchangeability
    - C) To reduce the need for prototypes
    - D) To enhance surface texture
19. In reverse engineering, what is the function of a 3D printer?
    - A) To measure physical dimensions
    - B) To create physical prototypes from digital models
    - C) To disassemble products
    - D) To document designs
20. Which GD&T symbol is used to indicate total runout?
    - A) Ⓣ
    - B) Ø
    - C) ◎
    - D) ⌭
21. What does the term 'tolerance' refer to in GD&T?
    - A) The allowable variation in a dimension
    - B) The color of a part
    - C) The speed of production
    - D) The weight of a material
22. In reverse engineering, why is it important to document the disassembly process?
    - A) To ensure parts are reassembled correctly
    - B) To reduce the overall weight of the product
    - C) To increase the speed of disassembly
    - D) To improve the color scheme of the product
23. Which GD&T tolerance is used to control the shape of a surface that must remain within two parallel planes?
    - A) Flatness
    - B) Circularity
    - C) Cylindricity
    - D) Profile of a surface

24. In reverse engineering, what is the benefit of creating a digital twin of a product?
    - A) It reduces the manufacturing cost
    - B) It allows for detailed analysis and optimization
    - C) It simplifies the color selection process
    - D) It increases the physical size of the product
25. Which GD&T concept ensures that a feature is consistently spaced from a datum point or axis?
    - A) Concentricity
    - B) Symmetry
    - C) Position
    - D) Parallelism

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Sreymuthy

A. Raj

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-2022

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- B) Circularity
- C) Concentricity
- D) Symmetry

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    - D) To enhance surface texture
19. In reverse engineering, what is the function of a 3D printer?
    - A) To measure physical dimensions
    - B) To create physical prototypes from digital models
    - C) To disassemble products
    - D) To document designs
20. Which GD&T symbol is used to indicate total runout?
    - A) Ⓣ
    - B) Ø
    - C) ◎
    - D) ⌭
21. What does the term 'tolerance' refer to in GD&T?
    - A) The allowable variation in a dimension
    - B) The color of a part
    - C) The speed of production
    - D) The weight of a material
22. In reverse engineering, why is it important to document the disassembly process?
    - A) To ensure parts are reassembled correctly
    - B) To reduce the overall weight of the product
    - C) To increase the speed of disassembly
    - D) To improve the color scheme of the product
23. Which GD&T tolerance is used to control the shape of a surface that must remain within two parallel planes?
    - A) Flatness
    - B) Circularity
    - C) Cylindricity
    - D) Profile of a surface

24. In reverse engineering, what is the benefit of creating a digital twin of a product?
    - A) It reduces the manufacturing cost
    - B) It allows for detailed analysis and optimization
    - C) It simplifies the color selection process
    - D) It increases the physical size of the product
25. Which GD&T concept ensures that a feature is consistently spaced from a datum point or axis?
    - A) Concentricity
    - B) Symmetry
    - C) Position
    - D) Parallelism

78/100

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-2022

R. Hari Krishnaa

411519110006

Assessment Test

MEA002 REVERSE ENGINEERING AND GD&T APPLICATION

1. What is the primary goal of reverse engineering?
   - A) To create new products from scratch
   - B) To understand and replicate existing products
   - C) To reduce manufacturing costs
   - D) To design marketing strategies
2. Which of the following is a common tool used in reverse engineering for creating digital models from physical parts?
   - A) CNC machine
   - B) 3D scanner
   - C) Injection molding machine
   - D) Lathe
3. What is a key legal consideration in reverse engineering?
   - A) Manufacturing efficiency
   - B) Intellectual property rights
   - C) Production speed
   - D) Supply chain management
4. Which of the following software is commonly used for creating 3D models in reverse engineering?
   - A) Microsoft Word
   - B) Adobe Illustrator
   - C) SolidWorks
   - D) QuickBooks
5. In reverse engineering, what is the purpose of a Coordinate Measuring Machine (CMM)?
   - A) To cut and shape materials
   - B) To measure the geometry of physical objects
   - C) To mix raw materials
   - D) To print documents
6. Which of the following is NOT a step in the reverse engineering process?
   - A) Disassembly
   - B) Analysis
   - C) Distribution
   - D) Documentation
7. What does GD&T stand for?
   - A) Geometric Drawing and Tuning
   - B) Geometric Design and Tuning
   - C) Geometric Dimensioning and Tolerancing
   - D) Geometric Drawing and Testing
8. What is the purpose of GD&T in engineering drawings?
   - A) To reduce the cost of materials
   - B) To specify allowable variations in part geometry

- C) To create artistic designs
- D) To manage project timelines

9. Which symbol in GD&T indicates flatness?
   - A) ○
   - B) ∥
   - C) ⌒
   - D) □
10. In GD&T, what does the term 'datum' refer to?
    - A) A reference point, line, or surface
    - B) A type of measurement tool
    - C) A material property
    - D) A manufacturing process
11. Which GD&T tolerance controls the allowable deviation of a surface from a specified line or plane?
    - A) Circularity
    - B) Perpendicularity
    - C) Flatness
    - D) Cylindricity
12. What does the position tolerance in GD&T control?
    - A) The form of a feature
    - B) The orientation of a feature
    - C) The location of a feature
    - D) The surface finish of a feature
13. Which GD&T symbol represents perpendicularity?
    - A) ⌀
    - B) ⊥
    - C) ∠
    - D) ≈
14. In reverse engineering, which step involves creating CAD models from measured data?
    - A) Disassembly
    - B) Documentation
    - C) Reconstruction
    - D) Analysis
15. What is the primary advantage of using 3D scanning in reverse engineering?
    - A) Reduces material costs
    - B) Increases product weight
    - C) Provides accurate digital models quickly
    - D) Enhances color quality
16. What type of tolerance is used in GD&T to control the size of a feature?
    - A) Profile tolerance
    - B) Form tolerance
    - C) Size tolerance
    - D) Orientation tolerance
17. Which GD&T tolerance would you use to control the roundness of a cylindrical feature?
    - A) Cylindricity

- B) Circularity
- C) Concentricity
- D) Symmetry

18. Which of the following is a primary reason for using GD&T in manufacturing?
    - A) To increase product color variety
    - B) To ensure part interchangeability
    - C) To reduce the need for prototypes
    - D) To enhance surface texture
19. In reverse engineering, what is the function of a 3D printer?
    - A) To measure physical dimensions
    - B) To create physical prototypes from digital models
    - C) To disassemble products
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    - D) Parallelism

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Mannivakkam, Chennai 600048

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021

PERIIT /CIVIL/Add on Course /2020-2021/Even/01 **Date:** 30.01.2021

CIRCULAR

Department of Civil Engineering is planned to conduct a program titled "**CC012 -Special Concretes**" for the Academic Year 2020 – 2021 for CIVIL Engineering students directed to attend the program.

S.No.	Year	Scheduled Date	Time
1	II,III,IV	06-02-2021 to 17-04-2021	6,7,8

Co-ordinator 30/1/21

Head of the Department

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

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2. Vice – Principal
3. IQAC
4. Faculty Members – Civil
5. Main – Notice Board

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021

ADD ON COURSE-CC012 -SPECIAL CONCRETE

TIME TABLE

S.No	Date	Hours	Topic
1	06-02-2021	6,7,8	**Constituent materials:**Role of constituents, Components of modern concrete, Rheology, Mineral and Chemical admixtures and their effect on properties of concrete
2	13-02-2021	6,7,8	**Special cements:**Need, Classifications, Blended cements, modified hydraulic cements, calcium aluminate cements, calcium sulphate based binders, calcium sulfo aluminate cements, shrinkage compensating (or) expansive cements, macro defect-free cements, phosphate cements, fast setting cements, their Performance and prescriptive specifications, Methods of mix proportioning: IS method, ACI method and BS method
3	20-02-2021	6,7,8	**Light Weight concrete**:Introduction, classification, strength and elastic properties, durability, mix proportioning.
4	27-02-2021	6,7,8	**High density concrete**:Radiation shielding ability of concrete, materials for high density concrete, mix proportioning, properties in fresh and hardened state, placement methods.Self-compacting Concrete (SCC), General characteristics, Properties, microstructure. Robustness and methods of mix proportioning and applications
5	06.03.2021	6,7,8	**Other concretes for special properties**High-volume fly ash concretes, geo-polymer concrete, pervious concrete, aerated concrete, ultrahigh performance concretes, Reactive powder concrete, Bacterial concrete, Heat resistant and refractory concrete. Their significance, materials, general consideration strength and durability aspects.
6	13.03.2021	6,7,8	**Mixture proportioning and parameters in the development of Special concreting operations:**Guniting and shotcreting, pre-placed aggregate, anti-washout concretes, concrete pumping, tremie placement for underwater applications.
7	20.03.2021	6,7,8	**Fibre reinforced concrete:**Fibre materials, mix proportioning, distribution and orientation, interfacial bond, properties in fresh state, Toughness and impact resistance, Elastic modulus, creep, and drying shrinkage, strength and behaviour in tension, compression and flexure, crack arrest and toughening mechanism, durability, applications.
8	27.03.2021	6,7,8	**Ferro cement:**Materials, mechanical properties, cracking of ferrocement, Types and methods of construction, strength and

			behaviour in tension, compression and flexure, Design of ferrocement in tension, durability, and applications.
9	03.04.2021	6,7,8	**High strength concretes:**Materials and mix proportion, Microstructure, stress-strain relation, fracture, drying shrinkage, and creep.
10	10.04.2021	6,7,8	**Mass concrete and Roller compacted concrete:**Constituents, mix proportioning, properties in fresh and hardened states, applications and limitations. Different NDT techniques for performance evaluation of structures: Rebound hammer, Ultrasonic pulse velocity meter, Profometer, Ground Penetrating Radar (GPR), Core test, Carbonation and Corrosion assessment
11	17.04.2021	5,6	INTERNAL ASSESSMENT

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

CC12 -SPECIAL CONCRETE

STUDENTS LIST

S.No.	Register Number	Name of the Student	YEAR
1	411519103001	F. Aarif Ahmed	II
2	411519103002	Kesu Bhanu Chandra	II
3	411519103003	D. Gopi Anand	II
4	411519103004	R. Ranjith	II
5	411519103005	V. Sathish Kumar	II
6	411519103006	M. Ushananthini	II
7	411519103301	S. Malathi	II
8	411519103302	D. Vigneshwaran	II
9	411518103001	Ananda Ganapathy Kb	III
10	411518103002	Kiran Kumar J S	III
11	411518103003	Prashanth J	III
12	411518103004	Praveen D	III
13	411518103005	Praveenkumar P	III
14	411518103006	Raghul R	III
15	411518103007	Sarath Kumar M	III
16	411518103008	Sree Balaji D	III
17	411518103009	Srikanth M	III
18	411518103010	Surendra Kumar K	III
19	411518103012	Yogeshwaran P T	III
20	411518103301	Guru prasath	III
21	411518103302	Nandeeshiwaran	III
22	411517103001	K. Ajeeth Kumar	IV
23	411517103002	A. AllampatiBhaskar	IV
24	411517103003	J. Anthony Bala	IV
25	411517103004	R. Arun	IV
26	411517103006	P. Balamurugan	IV
27	411517103007	V. Bojarajan	IV
28	411517103009	V. Dhanraj	IV
29	411517103011	C. Manikandan	IV
30	411517103013	M. Manoj Kumar	IV
31	411517103014	S. Masimalai	IV
32	411517103015	S. Mohamed Yasin	IV
33	411517103016	P. Naresh	IV
34	411517103018	K. Pravin	IV
35	411517103019	J. Preveen	IV
36	411517103020	P. Sakthivel	IV

37	411517103021	S. SathyaPriya	IV
38	411517103022	A. Shruthi	IV
39	411517103023	A. Shwetha	IV
40	411517103024	K. Thamizharasan	IV
41	411517103025	G. Vasanth	IV
42	411517103026	M. Vijai Mohan	IV
43	411517103301	D. Ajith Kumar	IV
44	411517103302	P. Dhamodaran	IV
45	411517103303	N. JashwanthNagaraj	IV
46	411517103305	J.M. JervinRebaario	IV
47	411517103306	G. Santhosh Kumar	IV

Head of the Department
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Academic Year 2020 – 2021
Department of Civil Engineering
Add on Course
CC012 -Special Concrete
Attendance Sheet

S.No	Register Number	Name of the Student	Year	06-02-21	13-02-21	21-02-21	27-02-21	06-03-21	13-03-21	21-03-21	27-03-21	03-04-21
1	411519103001	F. Aarif Ahmed	II									
2	411519103002	Kesu Bhanu Chandra	II									
3	411519103003	D. Gopi Anand	II									
4	411519103004	R. Ranjith	II									
5	411519103005	V. Sathish Kumar	II									
6	411519103006	M. Ushananthini	II									
7	411519103301	S. Malathi	II									
8	411519103302	D. Vigneshwaran	II									
9	411518103001	Ananda Ganapathy Kb	III									
10	411518103002	Kiran Kumar J S	III									
11	411518103003	Prashanth J	III									
12	411518103004	Praveen D	III									
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14	411518103006	Raghul R	III									
15	411518103007	Sarath Kumar M	III									
16	411518103008	Sree Balaji D	III									
17	411518103009	Srikanth M	III									
18	411518103010	Surendra Kumar K	III									
19	411518103012	Yogeshwaran P T	III									
20	411518103301	Guru prasath	III									

21	411518103302	Nandeeshiwaran	III										
22	411517103001	K. Ajeeth Kumar	IV										
23	411517103002	A. AllampatiBhaskar	IV										
24	411517103003	J. Anthony Bala	IV										
25	411517103004	R. Arun	IV										
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32	411517103015	S. Mohamed Yasin	IV										
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36	411517103020	P. Sakthivel	IV										
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44	411517103302	P. Dhamodaran	IV										
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47	411517103306	G. Santhosh Kumar	IV										

HOD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021

ADD ON COURSE-CC012 -SPECIAL CONCRETE

SYLLABUS

MODULE I

Constituent materials: Role of constituents, Components of modern concrete, Rheology, Mineral and Chemical admixtures and their effect on properties of concrete **Special cements:**Need, Classifications, Blended cements, modified hydraulic cements, calcium aluminate cements, calcium sulphate based binders, calcium sulfo aluminate cements, shrinkage compensating (or) expansive cements, macro defect-free cements, phosphate cements, fast setting cements, their Performance and prescriptive specifications, Methods of mix proportioning: IS method, ACI method and BS method

MODULE 2

Light Weight concrete:Introduction, classification, strength and elastic properties, durability, mix proportioning

.**High density concrete**:Radiation shielding ability of concrete, materials for high density concrete, mix proportioning, properties in fresh and hardened state, placement methods.Self-compacting Concrete (SCC), General characteristics, Properties, microstructure. Robustness and methods of mix proportioning and applications

MODULE 3

Other concretes for special properties High-volume fly ash concretes, geo-polymer concrete, pervious concrete, aerated concrete, ultrahigh performance concretes, Reactive powder concrete, Bacterial concrete, Heat resistant and refractory concrete. Their significance, materials, general consideration strength and durability aspects.
Mixture proportioning and parameters in the development of Special concreting operations: Guniting and shotcreting, pre-placed aggregate, anti-washout concretes, concrete pumping, tremie placement for underwater applications.

MODULE 4

Fibre reinforced concrete: Fibre materials, mix proportioning, distribution and orientation, interfacial bond, properties in fresh state, Toughness and impact resistance, Elastic modulus, creep, and drying shrinkage, strength and behaviour in tension, compression and flexure, crack arrest and toughening mechanism, durability, applications.
Ferro cement: Materials, mechanical properties, cracking of ferrocement, Types and methods of construction, strength and behaviour in tension, compression and flexure, Design of ferrocement in tension, durability, and applications.

INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021

ADD ON COURSE-ASSESSMENT -I

CC012 -SPECIAL CONCRETE

Year/Sem/Sec	III/VI	**Date**	17.04.2021
Department	CIVIL	**Duration**	45 minutes
Faculty	Ms.C.Lavanya	**Max. Marks**	30

Note:MARK THE CORRECT ANSWER IN THE SPACE PROVIDED

1	**The light-weight concrete may be produced by** (a) using lightweight aggregate (b) incorporating air bubble in concrete (c) omitting sand fraction (d) all of the above
2	**Lightweight concrete is used** (a) for reducing the dead weight of structures (b) in filler wall panels in highrise buildings (c) for improving thermal insulation (d) any of the above
3	**Aerated concrete is produced by addition of** (a) sodium silicate (b) copper sulphate (c) aluminium powder (d) zinc
4	**which of the following fibres give the highest improvement in the impact strength of fibre reinforced concrete?** (a) glass fibers (b) polypropylene, nylon, and other organic fibers (c) carbon fibers (d) asbestos fibers
5	

	In polymer concrete (resin concrete) the polymerization can be achieved by (a) thermal-catalytic reaction (b) catalyst-promoter reaction (c) radiation (d) all of the above a)
6	**shotcrete differs from conventional concrete with regard to** (a) material, proportions and void system (b) compaction (c) application proceedure (d) all of the above
7	**The cement-sand ratio in the ferrocement matrix should not be leaner than** (a) 1:1 (b) 1:2 (c) 1:3 (d) 1:4
8	**The volume of reinforcement in ferrocement varies between** (a) 1-2% (b) 2-5% (c) 5-8% (d) 8-10%
9	**the water-cement ratio for ferrocement mix should be** (a) less than 0.35 (b) between 0.35 to 0.40 (c) between 0.40 to 0.50 (d) between 0.50 to 0.60
10	**concreting in hot weather will result in** (a) increased strength (b) increased cracking (c) retard setting (d) unevenness
11	**shotcrete is used in the application of** (a) soil stabilization (b) waterproofing

	(c) stabilization of rock slopes (d) none of the above a)
12	**concreting in hot weather** **(i) increases the tendency to cracking** **(ii) makes air-content control difficult** **(iii) increases strength of hardened concrete** (a) only (i) (b) both (i) and (ii) (c) both (ii) and (iii) (d) (i). (ii) and (iii)
13	**Roller compacted concrete is a** (a) stiff concrete mix (b) zero slump concrete (c) mix having consistency of damp gravel (d) all of the above
14	**Ready mixed concrete (RMC) is** **(i) specified in terms of performance parameters** **(ii) produced under factory conditions** **(iii) produced and supplied by weight** **the correct answer is** (a) (i) and (ii) (b) (i) and (iii) (c) (ii) and (iii) (d) (i). (ii) and (iii)
15	The cement concrete, from which entrained air and excess water are removed after placing it in position, is called _____ a) Vacuum concrete b) LWC c) Prestressed concrete d) Sawdust concrete

16	Light weight cement content for compressive strength 3000 psi is _____ pounds per cubic yard. a) 400-510 b) 440-560 c) 530-660 d) 630-750
17	The light-weight concrete is prepared by _____ a) Mixing Portland cement with sawdust in specified proportion in the concrete b) Using coke-breeze, slag as aggregate in the concrete c) Mixing Al in the concrete d) Mixing Fe in the concrete
18	Aerated Concrete is _____ a) Very heavy weight b) Heavy weight c) Medium weight d) Light weight
19	Entrainment of air also improves workability and durability. a) True b) False
20	No fines concrete is manufactured by _____ a) By adding no fines materials from normal concrete b) By eliminating no fines materials from normal concrete c) By reducing its strength d) By increasing its strength
21	Density of no fines concrete with light weight aggregate vary from _____ kg/m3. a) 1600-1900 b) <300 c) >2500 d) >300
22	In bridges, HDC is used. a) True b) False
23	What is the value of modulus of elasticity for Sulphur infiltered concrete? a) 60-115 MPa b) 10-16 MPa c) 35-50 GPa d) 500 GPa
24	Diameter of Round Steel Fiber lies in the range of _____ mm. a) .3-.5 b) .25-.75 c) .155-.41 d) .25-.90
25	No fines concrete is manufactured by _____ a) By adding no fines materials from normal concrete b) By eliminating no fines materials from normal concrete

	c) By reducing its strength d) By increasing its strength
26	Density of no fines concrete with normal aggregate vary from _____ kg/m3. a) 1600-1900 b) <500 c) >2500 d) >300
27	The material used for UHPC provides flexural strengths up to _____ a) 2000 psi b) 5000 psi c) 7000 psi d) 10000 psi
28	What is the compressive strength for UHPC? a) 10-20 MPa b) 60-100 MPa c) 100-150 MPa d) >150 MPa
29	What is the percentage of PC by weight in UHPC? a) 28.5 b) 4.4 c) 1.2 d) 6.2
30	Range of modulus of elasticity for UHPC _____ a) 30-35 GPa b) 35-40 GPa c) 40-45 GPa d) 45-50 GPa

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE-ASSESSMENT -I

CC012 -SPECIAL CONCRETE

WRITE THE OPTIONS IN THE GIVEN SPACE

Year/Sem/Sec	III/VI	**Date**	**17.04.2021**
Department	CIVIL	**Duration**	**45 minutes**
REGISTER No.	411518030099	**Marks Obtained**	19
STUDENT NAME	M. SRIKANTH	**Signature**	M. Srikanth

Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION
1	A ✓	6	D ✓	11	C ✗	16	B ✗	21	A ✓
2	D ✗	7	B ✓	12	B ✗	17	B ✗	22	B ✓
3	C ✗	8	C ✗	13	D ✗	18	D ✗	23	C ✗
4	A ✗	9	B ✗	14	A ✗	19	A ✗	24	B ✗
5	D ✗	10	C ✗	15	B ✓	20	B ✗	25	B ✗

19/25

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

Ref: PERIIT /CSE/CC/2020-2021/03 **Date: 07.10.2020**

CIRCULAR

The Department of Computer Science and Engineering is planning to conduct a program titled "Dot Net for Beginners" for the Academic Year 2020 – 2021. IInd & IIIrd Year Computer Science and Engineering students are directed to attend the program.

CODE:CS021

S.No.	Year	Scheduled Date	Time
1	II & III	11-10-2020 TO 15-10-2020	8.30 AM to 3.30 PM

Coordinator 7/10/20

Head of the Department

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3. IQAC
4. Faculty Members – CSE Staffs
5. Main – Notice Board

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Computer Science and Engineering

TIME TABLE

Course Code: CS021 **Year/Semester: IInd & IIIrd Year**

Course Name: Dot Net for beginners **Session: FN &AN**

Course Mode :ONLINE **Google meet ID: https://meet.google.com/imi-gehb-ygx**

Particulars	Session	Topic covered
DATE: 17-5-2021 TO 20-05-2021 **TIME: 8.30 AM-3.30PM** **VENUE: CONFERENCE HALL**	FN & AN	**1. Introduction to Dot Net Framework:** -Understanding the fundamentals of the Dot Net framework and its architecture. -Exploring the advantages and applications of Dot Net in software development.
	FN & AN	**2. C# Programming Language:** - Mastering the C# programming language, including syntax, data types, control structures, and object-oriented programming principles. - Hands-on exercises and projects to reinforce learning and practical application of concepts.
	FN & AN	**3. ASP.Net Web Development:** - Building dynamic web applications using **ASP.Net**, including web forms, MVC (Model-View-Controller), and Web API. - Exploring advanced topics such as authentication, authorization, and session management in **ASP.Net**.
	FN & AN	**4. Database Integration with ADO.Net:** - Integrating databases with Dot Net applications using **ADO.Net**. - Understanding database connectivity, data retrieval, manipulation, and error handling techniques.
	FN & AN	**5. Dot Net Framework Tools and Libraries:** - Exploring the extensive set of tools and libraries available in the Dot Net framework for application development. - Leveraging frameworks such as Entity Framework for data access and LINQ for querying data.

Head of the Department

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

Students Name List for Dot Net for Beginners Program (11.10.2020 to 15.10.2020)

S..No.	Register Number	Name of the Student
1.	411517104001	Aarthi M M
2.	411517104002	Aarthi S
3.	411517104003	Abhinav R
4.	411517104004	Abinaya A
5.	411517104005	Abishek Kumar K
6.	411517104006	Afzal Rahman N
7.	411517104007	Ajith andrew J
8.	411517104008	Ajithkumar T
9.	411517104009	Ajith kumar I
10.	411517104010	Ambati srinivasarao
11.	411517104011	Anukul kiran B
12.	411517104012	Anusha iyer B
13.	411517104013	Aravindh A
14.	411517104015	Archana B S
15.	411517104016	Ashwath Jabez R

16.	411517104017	Bharath R
17.	411517104018	Bhuvaneshwari P
18.	411517104019	Chakali viswatheja
19.	411517104020	Charan kumar K
20.	411517104021	Chengaiah P
21.	411517104022	Dhakshana moorthy R
22.	411517104023	Dharmaraj M
23.	411517104024	Dhaya B
24.	411517104025	Ebenezer Solomon E
25.	411517104026	Elavarasan M
26.	411517104027	Erupalli venu
27.	411517104028	Ganesh K
28.	411517104029	Ganeshkumar P
29.	411517104030	Ganta Harischandra Prasad
30.	411517104031	Gayathri S
31.	411517104032	Gokul S
32.	411517104033	Gowthami U
33.	411517104034	Hariharan J
34.	411517104035	Hari Krishnan N
35.	411517104036	Hari priya S
36.	411517104037	Hemaranjanee A
37.	411517104038	Jagadeshwaran J

38.	411517104039	Jameer Syed Ibrahim J
39.	411517104040	Jothi lakshmi M
40.	411517104041	Kankanala Tejo Abhinay Kumar
41.	411517104044	Karthikeyan P V
42.	411517104045	Kaviya sree N
43.	411517104046	Keerthiga V
44.	411517104049	Lalith Kumar S
45.	411517104051	Lokeshwar S
46.	411517104052	Madhu Mani G
47.	411517104053	Manikandan H
48.	411517104054	Manikandan S
49.	411517104055	Mathan kumar P
50.	411517104058	Muppavarapu vinod
51.	411517104059	Murugappan K
52.	411517104060	Muthu A
53.	411517104062	Narayanee V
54.	411517104063	Nattudurai P
55.	411517104064	Nithya shree K
56.	411517104065	Nivethitha R B
57.	411517104066	Padmanaban P
58.	411517104067	Pallpolu Govardhan Reddy

59.	411517104069	Poornima A
60.	411517104070	Pothuru Venkata Likhith Suraj
61.	411517104071	Pradeep kumar S
62.	411517104072	Prasanth M
63.	411517104073	Praveen S U
64.	411517104074	Praveen kumar A
65.	411517104075	Praveen Kumar C
66.	411517104076	Praveen kumar M
67.	411517104077	Pravindhran R
68.	411517104078	Preetha M
69.	411517104079	Priya R
70.	411517104080	Raaj Akhas Nithish S V
71.	411517104081	Ragul K
72.	411517104082	Ragul Gandhi D
73.	411517104083	Raja ragavan I
74.	411517104085	Ramakrishnan V
75.	411517104086	Rohit P
76.	411517104087	Roopan Abishek M
77.	411517104088	Safiya S
78.	411517104090	Sanjay S
79.	411517104093	Sathana R
80.	411517104094	Sathiya priya S

81.	411517104095	Senthatti S
82.	411517104096	Senthil kumar D
83.	411517104097	Sheefa Y
84.	411517104098	Sindhuja U
85.	411517104099	Siva karthick S
86.	411517104100	Sonia D M
87.	411517104101	Soriyamani I
88.	411517104102	Sowmiya C
89.	411517104103	Sri devi M
90.	411517104104	Supraja M
91.	411517104105	Surendran S
92.	411517104106	Utukuri Naga Venkata Sai Manikanta
93.	411517104107	Vallarasu R
94.	411517104108	Varsha R
95.	411517104109	Varun G
96.	411517104110	Vasanthan K
97.	411517104111	Vasanth Raj S N
98.	411517104112	Vema Vamsi Revanth
99.	411517104113	Vignesh B
100.	411517104115	Vigneshwar R
101.	411517104116	Vijaya anandan T

102.	411517104117	Vishal M
103.	411517104119	Vishalkaarthik R R
104.	411517104120	Vishnu M
105.	411517104121	Vishnu M K
106.	411517104122	Yalmozhi D
107.	411517104124	Yuvanesh Kanna S P
108.	411517104125	Yuvashri U
109.	411517104302	Naveen C
110.	411517104701	Catherine Ruth W D

Co-ordinator

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
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Mannivakkam, Chennai - 600 048

PERI
INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

Attendance Report for Dot Net for Beginners Program (11.10.2020 to 15.10.2020)

S..No.	Register Number	Name of the Student	11.10.20	12.10.20	13.10.20	14.10.20	15.10.20
1.	411517104001	Aarthi M M	/	/	/	/	/
2.	411517104002	Aarthi S	/	/	/	/	/
3.	411517104003	Abhinav R	/	/	/	/	/
4.	411517104004	Abinaya A	/	/	/	/	/
5.	411517104005	Abishek Kumar K	/	/	/	/	/
6.	411517104006	Afzal Rahman N	/	/	/	/	/
7.	411517104007	Ajith andrew J	/	/	/	/	/
8.	411517104008	Ajithkumar T	/	/	/	/	/
9.	411517104009	Ajith kumar I	/	/	/	/	/
10.	411517104010	Ambati srinivasarao	/	/	/	/	/
11.	411517104011	Anukul kiran B	/	/	A	/	/
12.	411517104012	Anusha iyer B	/	/	/	/	/
13.	411517104013	Aravindh A	/	/	/	/	/
14.	411517104015	Archana B S	/	/	/	/	/
15.	411517104016	Ashwath Jabez R	/	/	/	/	/
			A	/	/	/	/

16.	411517104017	Bharath R	/	/	/	/	/
17.	411517104018	Bhuvaneshwari P	/	/	/	A	/
18.	411517104019	Chakali viswatheja	/	/	/	/	/
19.	411517104020	Charan kumar K	/	/	/	/	/
20.	411517104021	Chengaiah P	/	/	/	/	/
21.	411517104022	Dhakshana moorthy R	/	/	/	/	/
22.	411517104023	Dharmaraj M	/	A	/	/	/
23.	411517104024	Dhaya B	/	A	/	/	/
24.	411517104025	Ebenezer Solomon E	/	/	/	/	/
25.	411517104026	Elavarasan M	/	/	/	/	/
26.	411517104027	Erupalli venu	/	/	/	/	/
27.	411517104028	Ganesh K	/	/	/	/	/
28.	411517104029	Ganeshkumar P	/	/	/	/	/
29.	411517104030	Ganta Harischandra Prasad	/	/	/	/	/
30.	411517104031	Gayathri S	/	/	/	/	/
31.	411517104032	Gokul S	/	/	/	/	A
32.	411517104033	Gowthami U	/	/	/	/	/
33.	411517104034	Hariharan J	/	/	/	/	/
34.	411517104035	Hari Krishnan N	/	/	/	/	/
35.	411517104036	Hari priya S	/	/	/	/	/
36.	411517104037	Hemaranjanee A	/	A	/	/	/
37.	411517104038	Jagadeshwaran J	/	/	/	/	/

38.	411517104039	Jameer Syed Ibrahim J	/	A	/	/	/
39.	411517104040	Jothi lakshmi M	/	/	/	/	
40.	411517104041	Kankanala Tejo Abhinay Kumar	/	/	/	/	/
41.	411517104044	Karthikeyan P V	/	/	/	/	/
42.	411517104045	Kaviya sree N	/	/	/	/	/
43.	411517104046	Keerthiga V	/	/	/	/	/
44.	411517104049	Lalith Kumar S	/	/	/	/	/
45.	411517104051	Lokeshwar S	A	/	/	/	/
46.	411517104052	Madhu Mani G	/	/	/	/	/
47.	411517104053	Manikandan H	/	/	/	/	/
48.	411517104054	Manikandan S	/	/	/	/	/
49.	411517104055	Mathan kumar P	/	/	/	/	/
50.	411517104058	Muppavarapu vinod	/	/	A	/	/
51.	411517104059	Murugappan K	/	/	/	/	/
52.	411517104060	Muthu A	/	/	/	/	/
53.	411517104062	Narayanee V	/	/	/	/	/
54.	411517104063	Nattudurai P	/	/	/	/	/
55.	411517104064	Nithya shree K	A	/	/	/	/
56.	411517104065	Nivethitha R B	/	/	/	/	/
57.	411517104066	Padmanaban P	/	/	/	/	A
58.	411517104067	Pallpolu Govardhan Reddy	/	/	/	/	/

59.	411517104069	Poornima A	/	/	/	/	/
60.	411517104070	Pothuru Venkata Likhith Suraj	/	/	/	/	/
61.	411517104071	Pradeep kumar S	/	/	/	/	/
62.	411517104072	Prasanth M	/	/	/	/	/
63.	411517104073	Praveen S U	/	/	/	/	/
64.	411517104074	Praveen kumar A	/	/	/	/	/
65.	411517104075	Praveen Kumar C	/	/	/	/	/
66.	411517104076	Praveen kumar M	/	/	/	/	/
67.	411517104077	Pravindhran R	/	/	/	/	/
68.	411517104078	Preetha M	/	/	/	/	/
69.	411517104079	Priya R	/	/	/	/	/
70.	411517104080	Raaj Akhas Nithish S V	/	/	/	/	A
71.	411517104081	Ragul K	/	/	/	/	/
72.	411517104082	Ragul Gandhi D	/	/	/	/	/
73.	411517104083	Raja ragavan I	/	/	/	/	/
74.	411517104085	Ramakrishnan V	/	/	/	/	/
75.	411517104086	Rohit P	/	/	/	/	/
76.	411517104087	Roopan Abishek M	/	/	/	/	/
77.	411517104088	Safiya S	/	/	/	/	/
78.	411517104090	Sanjay S	/	/	/	/	/
79.	411517104093	Sathana R	/	/	/	/	/
80.	411517104094	Sathiya priya S	A	/	/	/	/
			/	/	/	/	/

81.	411517104095	Senthatti S	/	/	/	/	/
82.	411517104096	Senthil kumar D	/	/	/	/	/
83.	411517104097	Sheefa Y	/	/	/	/	/
84.	411517104098	Sindhuja U	/	/	/	/	/
85.	411517104099	Siva karthick S	/	/	/	/	/
86.	411517104100	Sonia D M	/	/	/	/	/
87.	411517104101	Soriyamani I	/	/	/	/	/
88.	411517104102	Sowmiya C	/	/	/	/	/
89.	411517104103	Sri devi M	A	/	/	/	/
90.	411517104104	Supraja M	/	/	/	/	/
91.	411517104105	Surendran S	/	/	/	/	/
92.	411517104106	Utukuri Naga Venkata Sai Manikanta	/	/	/	/	/
93.	411517104107	Vallarasu R	/	/	/	/	/
94.	411517104108	Varsha R	/	/	/	/	/
95.	411517104109	Varun G	/	/	/	/	/
96.	411517104110	Vasanthan K	/	/	/	/	/
97.	411517104111	Vasanth Raj S N	/	/	/	/	/
98.	411517104112	Vema Vamsi Revanth	/	/	/	/	/
99.	411517104113	Vignesh B	/	/	/	/	/
100.	411517104115	Vigneshwar R	/	/	/	/	/
101.	411517104116	Vijaya anandan T	/	/	A	/	/

102.	411517104117	Vishal M	/	/	/	/	/
103.	411517104119	Vishalkaarthik R R	/	/	/	/	/
104.	411517104120	Vishnu M	/	/	/	/	/
105.	411517104121	Vishnu M K	/	/	/	/	/
106.	411517104122	Yalmozhi D	/	/	/	/	/
107.	411517104124	Yuvanesh Kanna S P	/	/	/	/	/
108.	411517104125	Yuvashri U	/	/	/	/	/
109.	411517104302	Naveen C	/	/	/	/	/
110.	411517104701	Catherine Ruth W D	/	/	/	/	/

Co-ordinator

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

SYLLABUS

MODULE I: INTRODUCTION TO DOT NET FRAMEWORK

Understanding the fundamentals of the Dot Net framework and its architecture-Exploring the advantages and applications of Dot Net in software development.

MODULE II: C# PROGRAMMING LANGUAGE

Mastering the C# programming language, including syntax, data types, control structures, and object-oriented programming principles.- Hands-on exercises and projects to reinforce learning and practical application of concepts.

MODULE III: ASP.NET WEB DEVELOPMENT

Building dynamic web applications using ASP.Net, including web forms, MVC (Model-View-Controller), and Web API- Exploring advanced topics such as authentication, authorization, and session management in ASP.Net.

MODULE IV: Database Integration with ADO.Net

Integrating databases with Dot Net applications using ADO.Net.- Understanding database connectivity, data retrieval, manipulation, and error handling techniques.

Coordinator

HOD/CSE

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

FEEDBACK FORM

DATE: 15/10/2020

Name of the Student: Abinaya.A
Register No: 411517104004
Year/Semester 2nd / 3rd
Course Code: CS021.
Course Name: DOT NET FOR beginers

1. What is your assessment of the course material?

The curriculum of the course material very used and not more knowledge

2. How effective was the instructor's delivery of the content?

The content Explain clearly

3. Rate the overall quality of the program.

out of four star

4. Would you suggest this program to your peers or underclassmen?

Yes

5. Suggestions for enhancement, if any:

No

Signature of the Student

Abinaya.A

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

FEEDBACK FORM

DATE: 15.10.2020

Name of the Student: VISHAL.M
Register No: 411517104017
Year/Semester III yr / 5th
Course Code: CS021
Course Name: DOT NET FOR BEGINERS

1. What is your assessment of the course material?

   The assessment of the course material is enough for the exams.

2. How effective was the instructor's delivery of the content?

   The instructor delivery the content is very useful.

3. Rate the overall quality of the program.

   Out of 5 Star

4. Would you suggest this program to your peers or underclassmen?

   Yes, I suggest this program to my underclassmen

5. Suggestions for enhancement, if any:

   NO

Signature of the Student

Vishal.

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Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2020-2021

Ref: PERIIT /ECE/Add-On Course/2020-21/01 **Date: 17.03.2021**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Workshop titled "MATLAB" for the Academic Year 2020 – 2021 for II,III & IV year ECE students.

CODE:ECW013

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II,III,IV	20.03.2021 -26.03.2021	10.00AM to 11.45AM	12.30PM to 3.30PM

Co-ordinator

17/3/2021

Head of the Department

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members -ECE
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Workshop Code: ECW013 **Year:II,III & IV**

Workshop Name: MATLAB for DSP **Session: FN & AN**

S.No	DATE	HOURS	TOPIC
1	20.03.2021	3rd-8th	Introduction to MATLAB .History -Toolbox -Command Window -Script .m-file -Function -MATLAB Documentation Uses of MATLAB
2	22.03.2021	3rd-8th	Basic Mathematics Using MATLAB -Data types -Matrix Differentiation -Integration
3	23.03.2021	3rd-8th	Logic Operations Using MATLAB -Conditional Operators For loop -While loop
4	24.03.2021	3rd-8th	Graph -Plotting of linear variables -Plotting of signals Image Processing -Toolbox -Types of Image
5	25.03.2021	3rd-8th	Image Resizing-Color Filtering -Image Restoration
6	26.03.2021	3rd-8th	MATLAB Simulink- Example simulation programs

Coordinator **HOD/ECE**

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2020-2021
II/ECE MATLAB for DSP

S.NO	REGISTER NO	NAME OF THE STUDENT
1	411519106001	AKASH S
2	411519106002	BAGAVATH.P
3	411519106003	CHANDRU S
4	411519106004	DESULUGIRI KODANDARAMI REDDY
5	411519106005	DINESH V
6	411519106006	GOLDA FAITH T
7	411519106007	HARISH R
8	411519106009	KARTHICKKUMAR M
9	411519106010	KAVIPRIYA M
10	411519106011	KAVIYA E S
11	411519106012	KEERTHI R
12	411519106013	KARTHEEK VARMA K
13	411519106015	MERLIN P
14	411519106016	MUGILAN K
15	411519106017	PRAKRUTHI M A
16	411519106018	PRAVEEN RAJ T
17	411519106019	RAVI KUMAR V
18	411519106020	SANGEETHA V
19	411519106021	SARVEPALLI DEEPAK
20	411519106022	SASI KUMAR S
21	411519106023	SHAJITHABARVEEN S
22	411519106024	SHALINI D
23	411519106025	SNEGA S
24	411519106026	SWARNA C R
25	411519106027	VELAN S
26	411519106028	VINOTH KUMAR R
27	411519106301	ARUN PRASATH V
28	411519106302	MATHESH G
29	411519106303	RAGUL P
30	411519106304	VISWANATH E

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2020-2021
III/ECE

S.NO.	REG. NO	STUDENT NAME
1	411518106001	ABINAYA S
2	411518106002	AJAYKUMAR D
3	411518106004	ANGELO JUDE DUMENIL
4	411518106007	ASHWINI M
5	411518106008	ASLAM BADUS HA I
6	411518106009	BARATHWAJ K R
7	411518106011	BEVINA M
8	411518106012	BUDDANNAGARI MADHU
9	411518106014	DINESH S
10	411518106015	EVANGLIN S
11	411518106017	GENJI MUKHESH REDDY
12	411518106018	GOKUL KRISHNAN M
13	411518106019	HABIBUNNISHA
14	411518106020	INTHIRAN R
15	411518106021	ISHRATH JABEEN S
16	411518106023	JAYAKAMALA NARAYANAN N
17	411518106024	JEEVA B M
18	411518106026	KALAIVANI CHAKKARAPANI
19	411518106028	KAVITHA R
20	411518106030	KIRUBAKARAN S
21	411518106031	KOKILAVANI P
22	411518106036	MALLAVARAPU SHREYA
23	411518106037	MANOJ KUMAR N
24	411518106038	MIDHUNA VARSHINI J
25	411518106039	MOHANKUMAR P
26	411518106046	NIDHI SELVAN J C
27	411518106048	PRASANTH R
28	411518106049	PRAVEENA R
29	411518106050	PRAWIN CHANDAR B
30	411518106054	RAMESH ARAVIND T
31	411518106055	RAYAPATI SOWMYA SUHANNA PRIYA
32	411518106056	RINOZA K
33	411518106059	SANJAI SAIRAM S K
34	411518106064	SUNDAR R
35	411518106065	SURYA D
36	411518106067	SUVASNA M

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2020-2021
III/ECE

37	411518106069	VAKA HARSHITHA
38	411518106072	YASER ABDUL RAHEEM K S
39	411518106003	AKASH PRIYADHARSAN B
40	411518106005	ANUGU PAVAN
41	411518106006	ARIVUKARASU T
42	411518106010	BESTHA BHAVANA RAVIKUMAR
43	411518106013	CHANDRU M
44	411518106016	GANESH A
45	411518106022	JANANI PRIYA D
46	411518106025	JOTHIKA V
47	411518106027	KAMALESH J
48	411518106029	KIRAN RAJ A
49	411518106032	KUMARAN K
50	411518106033	LAGADAPATI BADRINATH
51	411518106035	MAHESH KUMAR V
52	411518106040	MONISH B
53	411518106041	MUKESH S
54	411518106042	MUKUNTHAN S
55	411518106043	NAGASUBA G
56	411518106044	NAVEEN S
57	411518106045	NEELAM PRANAY SA
58	411518106047	NITHISH KUMAR C
59	411518106051	PREM KUMAR M D
60	411518106052	RAGAPRIYA M
61	411518106057	RITHICKANAND N
62	411518106058	SAMEERA BANU B
63	411518106060	SANJAY RAMESH R
64	411518106062	SRIRAM I
65	411518106063	SUJAI MATHEW B
66	411518106066	SURYA G
67	411518106068	THIRAVIDAR SELVAM G
68	411518106070	VENKATESH R
69	411518106071	YAKESH G
70	411518106301	ARUN KUMAR.E
71	411518106302	LOGESH.S
72	411518106303	ZAINUL KHAN.A

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S.NO.	REG. NO	STUDENT NAME
1	411517106001	AAKASH C.S
2	411517106002	AAKASH RAJ S
3	411517106003	ABDULLA A
4	411517106004	AGNISHA V.
5	411517106005	AILEEN MERCYBELL A
6	411517106006	AKASH S
7	411517106008	ANNAPUREDDY DHANA LAKSHMI A
8	411517106009	ARASAVALLI TEJA DURGA SAI S.
9	411517106010	ARUN K.S.
10	411517106011	ARUNESHWARAN M
11	411517106012	ASHIKA K
12	411517106013	BALAJI N
13	411517106014	VAMSI KRISHNA B.
14	411517106015	BHARATH BALAJI R
15	411517106016	BOYA VENKATA RAKESH B.
16	411517106018	CHINTALA.SUPRIYA S.
17	411517106019	CHUKKA MONICA B.
18	411517106020	DEEPIKA M.
19	411517106021	DELLI GANESH G
20	411517106022	DINESH V
21	411517106023	DIVYA PRIYA R.
22	411517106024	EURO SRI M.

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23	411517106025	GADIKOTA DEEKSHITHA G.
24	411517106026	GADI MANO VARSHITH G.
25	411517106027	GANESH KARAN K
26	411517106028	GAYATHRI K
27	411517106029	GNANAPRASATH L
28	411517106030	GUPENDHIRAN S
29	411517106031	GURRALA HARI R.
30	411517106032	GURUDHARSAN B
31	411517106033	HARIHARAN K
32	411517106034	HARIPRIYA B.
33	411517106035	ILANGO M
34	411517106036	JAIGANESH S
35	411517106038	JAVANGULA MANICHAND J
36	411517106040	JOTHIKA A
37	411517106041	KALAIVANI K
38	411517106042	KAMALEESHWAR M
39	411517106043	KAMESH M
40	411517106044	KAMESH R
41	411517106045	KANICKAI RAJ J
42	411517106046	KARTHIC B
43	411517106047	KARTHIKEYAN A
44	411517106048	KATHIRAVAN G
45	411517106049	KAVIN J
46	411517106051	KEERTHANA L

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47	411517106052	KEERTHI RAJAN A.S
48	411517106053	SASIDHAR NAIDU K
49	411517106054	KISHORE KUMAR M
50	411517106056	KRISHNARAJ V
51	411517106057	KUMARAN J
52	411517106058	LAKSHMI AISHWARYA R.
53	411517106059	LEENA S
54	411517106060	LOGESH S
55	411517106061	LOGESHWARI G.
56	411517106062	LOKESHKUMAR M.
57	411517106063	LOKESH KUMAR G
58	411517106064	LOKESHWARAN P
59	411517106065	MADHAN RAJ P.
60	411517106066	MANIBHARATHI S.
61	411517106067	MANISHA V.
62	411517106068	MARY K
63	411517106069	MOHAMMED SHAARIF K
64	411517106070	MOHANA N
65	411517106071	MONISHA M.
66	411517106072	KRANTHI KUMAR N
67	411517106076	KIRAN KUMAR REDDY O.
68	411517106077	PADMASHREE M.
69	411517106079	PRADEEP K.V
70	411517106081	PRAVEEN S

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71	411517106082	RAGAVENDER S
72	411517106083	RAJA SHREE B
73	411517106084	RAKINI C.
74	411517106085	RAMAPRAKASH G.
75	411517106086	RAVEEN KUMAR M
76	411517106087	RUPA SRI V M
77	411517106088	SAI SRUTHI K
78	411517106089	SANDHIYA V
79	411517106090	SANJAY S
80	411517106091	SANTHANA KARTHICK D
81	411517106092	SELVA DHARSHINI V
82	411517106093	SELVA SOORIYA S
83	411517106094	SHANTHI V.
84	411517106095	SHARON GRACE BETSY G
85	411517106096	SHESHI KUMAR G.R
86	411517106097	SHIVAHARI P
87	411517106098	SIVA KUMAR S
88	411517106099	SIVA SARAVANAN K
89	411517106101	SRIRAM E.
90	411517106102	SUBALAKSHMI H
91	411517106104	UMA MAGHESWARI K
92	411517106105	YAMINI CHOWDARY U
93	411517106106	VALLARASU R
94	411517106107	VASANTH KUMAR.K

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95	411517106108	VIGNESH A
96	411517106109	VIGNESH P
97	411517106110	VIJAYALAKSHMI G
98	411517106111	VIJITHRA V
99	411517106112	VINODHINI S
100	411517106113	VUNNAM SUCHARITHA V.
101	411517106114	YAKESH C
102	411517106115	YAZHIR ARAFATH A
103	411517106301	SUDALAI MUTHU
104	411517106302	SURYA
105	411517106303	VIGNESH . L

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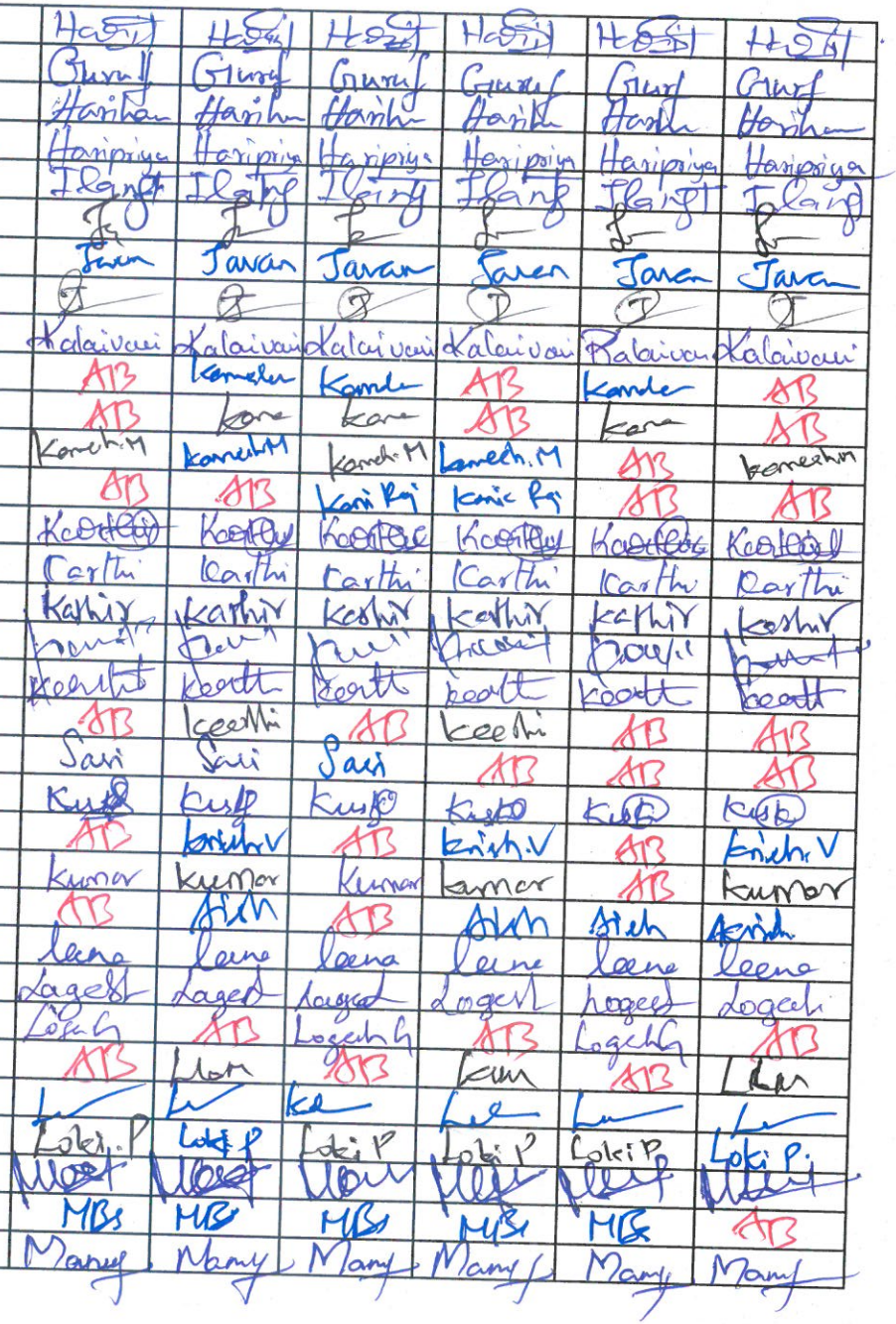
S.NO	REG. NO.	NAME OF THE STUDENT	20.03.21	22.03.21	23.03.21	24.03.21	25.03.21	26.03.21
1	411517106001	Aakash C.S						
2	411517106002	Aakash Raj S						
3	411517106003	Abdulla A						
4	411517106004	Agnisha V.						
5	411517106005	Aileen Mercybell A						
6	411517106006	Akash S						
7	411517106008	Annapureddy Dhana Lakshmi A						
8	411517106009	Arasavalli Teja Durga Sai S.						
9	411517106010	Arun K.S.						
10	411517106011	Aruneshwaran M						
11	411517106012	Ashika K						
12	411517106013	Balaji N						
13	411517106014	Vamsi Krishna B.						
14	411517106015	Bharath Balaji R						
15	411517106016	Boya Venkata Rakesh B.						
16	411517106018	Chintala.Supriya S.						
17	411517106019	Chukka Monica B.						
18	411517106020	Deepika M.						
19	411517106021	Delli Ganesh G						
20	411517106022	Dinesh V						
21	411517106023	Divya Priya R.						
22	411517106024	Euro Sri M.						
23	411517106025	Gadikota Deekshitha G.						
24	411517106026	Gadi Mano Varshith G.						
25	411517106027	Ganesh Karan K						
26	411517106028	Gayathri K						
27	411517106029	Gnanaprasath L						
28	411517106030	Gupendhiran S						

29	411517106031	Gurrala Hari R.
30	411517106032	Gurudharsan B
31	411517106033	Hariharan K
32	411517106034	Haripriya B.
33	411517106035	Ilango M
34	411517106036	Jaiganesh S
35	411517106038	Javangula Manichand J
36	411517106040	Jothika A
37	411517106041	Kalaivani K
38	411517106042	Kamaleeshwar M
39	411517106043	Kamesh M
40	411517106044	Kamesh R
41	411517106045	Kanickai Raj J
42	411517106046	Karthic B
43	411517106047	Karthikeyan A
44	411517106048	Kathiravan G
45	411517106049	Kavin J
46	411517106051	Keerthana L
47	411517106052	Keerthi Rajan A.S
48	411517106053	Sasidhar Naidu K
49	411517106054	Kishore Kumar M
50	411517106056	Krishnaraj V
51	411517106057	Kumaran J
52	411517106058	Lakshmi Aishwarya R.
53	411517106059	Leena S
54	411517106060	Logesh S
55	411517106061	Logeshwari G.
56	411517106062	Lokeshkumar M.
57	411517106063	Lokesh Kumar G
58	411517106064	Lokeshwaran P
59	411517106065	Madhan Raj P.
60	411517106066	Manibharathi S.
61	411517106067	Manisha V.



62	411517106068	Mary K							
63	411517106069	Mohammed Shaarif K							
64	411517106070	Mohana N							
65	411517106071	Monisha M.							
66	411517106072	Kranthi Kumar N							
67	411517106076	Kiran Kumar Reddy O.							
68	411517106077	Padmashree M.							
69	411517106079	Pradeep K.V							
70	411517106081	Praveen S							
71	411517106082	Ragavender S							
72	411517106083	Raja Shree B							
73	411517106084	Rakini C.							
74	411517106085	Ramaprakash G.							
75	411517106086	Raveen Kumar M							
76	411517106087	Rupa Sri V M							
77	411517106088	Sai Sruthi K							
78	411517106089	Sandhiya V							
79	411517106090	Sanjay S							
80	411517106091	Santhana Karthick D							
81	411517106092	Selva Dharshini V							
82	411517106093	Selva Sooriya S							
83	411517106094	Shanthi V.							
84	411517106095	Sharon Grace Betsy G							
85	411517106096	Sheshi Kumar G.R							
86	411517106097	Shivahari P							
87	411517106098	Siva Kumar S							
88	411517106099	Siva Saravanan K							
89	411517106101	Sriram E.							
90	411517106102	Subalakshmi H							
91	411517106104	Uma Magheswari K							
92	411517106105	Yamini Chowdary U							
93	411517106106	Vallarasu R							
94	411517106107	Vasanth kumar.K							

95	411517106108	Vignesh A						
96	411517106109	Vignesh P						
97	411517106110	Vijayalakshmi G						
98	411517106111	Vijithra V						
99	411517106112	Vinodhini S						
100	411517106113	Vunnam Sucharitha V.						
101	411517106114	Yakesh C						
102	411517106115	Yazhir Arafath A						
103	411517106301	Sudalai Muthu						
104	411517106302	Surya						
105	411517106303	Vignesh . L						
PRESENT			98	103	101	101	98	98
ABSENT			07	02	04	04	07	07

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S.NO	REG. NO.	NAME OF THE STUDENT	20.03.21	22.03.21	23.03.21	24.03.21	25.03.21	26.03.21
1	411518106001	Abinaya S						
2	411518106002	Ajaykumar D						
3	411518106004	Angelo Jude Dumenil						
4	411518106007	Ashwini M						
5	411518106008	Aslam Badus Ha I						
6	411518106009	Barathwaj K R						
7	411518106011	Bevina M						
8	411518106012	Buddannagari Madhu						
9	411518106014	Dinesh S						
10	411518106015	Evanglin S						
11	411518106017	Genji Mukhesh Reddy						
12	411518106018	Gokul Krishnan M						
13	411518106019	Habibunnisha						
14	411518106020	Inthiran R						
15	411518106021	Ishrath Jabeen S						
16	411518106023	Jayakamala Narayanan N						
17	411518106024	Jeeva B M						
18	411518106026	Kalaivani Chakkarapani						
19	411518106028	Kavitha R						
20	411518106030	Kirubakaran S						
21	411518106031	Kokilavani P						
22	411518106036	Mallavarapu Shreya						
23	411518106037	Manoj Kumar N						
24	411518106038	Midhuna Varshini J						
25	411518106039	Mohankumar P						
26	411518106046	Nidhi Selvan J C						
27	411518106048	Prasanth R						
28	411518106049	Praveena R						

29	411518106050	Prawin Chandar B									
30	411518106054	Ramesh Aravind T									
31	411518106055	Rayapati Sowmya Suhanna									
32	411518106056	Rinoza K									
33	411518106059	Sanjai Sairam S K									
34	411518106064	Sundar R									
35	411518106065	Surya D									
36	411518106067	Suvasna M									
37	411518106069	Vaka Harshitha									
38	411518106072	Yaser Abdul Raheem K S									
39	411518106003	Akash Priyadharsan B									
40	411518106005	Anugu Pavan									
41	411518106006	Arivukarasu T									
42	411518106010	Bestha Bhavana Ravikumar									
43	411518106013	Chandru M									
44	411518106016	Ganesh A									
45	411518106022	Janani Priya D									
46	411518106025	Jothika V									
47	411518106027	Kamalesh J									
48	411518106029	Kiran Raj A									
49	411518106032	Kumaran K									
50	411518106033	Lagadapati Badrinath									
51	411518106035	Mahesh Kumar V									
52	411518106040	Monish B									
53	411518106041	Mukesh S									
54	411518106042	Mukunthan S									
55	411518106043	Nagasuba G									
56	411518106044	Naveen S									
57	411518106045	Neelam Pranay Sa									
58	411518106047	Nithish Kumar C									
59	411518106051	Prem Kumar M D									
60	411518106052	Ragapriya M									
61	411518106057	Rithickanand N									

62	411518106058	Sameera Banu B						
63	411518106060	Sanjay Ramesh R						
64	411518106062	Sriram I						
65	411518106063	Sujai Mathew B						
66	411518106066	Surya G						
67	411518106068	Thiravidar Selvam G						
68	411518106070	Venkatesh R						
69	411518106071	Yakesh G						
70	411518106301	Arun Kumar.E						
71	411518106302	Logesh.S						
72	411518106303	Zainul Khan.A						
PRESENT			72	72	72	72	72	72
ABSENT			—	—	—	—	—	—

Coordinator

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Attendance Report-MATLAB for DSP - ECW013

S.NO	REG. NO.	NAME OF THE STUDENT	20.03.21	22.03.21	23.03.21	24.03.21	25.03.21	26.03.21
1	411519106001	AKASH S						
2	411519106002	BAGAVATH.P						
3	411519106003	CHANDRU S						
4	411519106004	DESULUGIRI KODANDARAMI REDDY						
5	411519106005	DINESH V						
6	411519106006	GOLDA FAITH T						
7	411519106007	HARISH R						
8	411519106009	KARTHICKKUMAR M						
9	411519106010	KAVIPRIYA M						
10	411519106011	KAVIYA E S						
11	411519106012	KEERTHI R						
12	411519106013	KARTHEEK VARMA K						
13	411519106015	MERLIN P						
14	411519106016	MUGILAN K						
15	411519106017	PRAKRUTHI M A						
16	411519106018	PRAVEEN RAJ T						
17	411519106019	RAVI KUMAR V						
18	411519106020	SANGEETHA V						
19	411519106021	SARVEPALLI DEEPAK						
20	411519106022	SASI KUMAR S						
21	411519106023	SHAJITHABARVEEN S						
22	411519106024	SHALINI D						
23	411519106025	SNEGA S						
24	411519106026	SWARNA C R						
25	411519106027	VELAN S						
26	411519106028	VINOTH KUMAR R						

27	411519106301	ARUN PRASATH V						
28	411519106302	MATHESH G						
29	411519106303	RAGUL P						
30	411519106304	VISWANATH E						
PRESENT			30	30	30	30	30	30
ABSENT			-	-	-	-	-	-

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I:INTRODUCTION TO MATLAB

Introduction to MATLAB .History -Toolbox -

Command Window -Script .m-file -

Function -MATLAB Documentation Uses of MATLAB

MODULE II: BASIC MATHEMATICS AND LOGIC OPERATIONS

Basic Mathematics Using MATLAB -Data types -

Matrix Differentiation -Integration.

Logic Operations -Conditional Operators-For loop -While loop

MODULE III: GRAPH AND IMAGE PROCESSING

Graph -Plotting of linear variables -Plotting of signals -

Image Processing -Toolbox -Types of Image Image Resizing

MODULE IV: COLOR FILER

Color Filtering -Image Restoration.MATLAB Simulink-

Example simulation programs

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT ON MATLAB

1. What does Matlab stand for?

a) Math Laboratory

b) Matrix Laboratory

c) Mathworks

d) Nothing

e) none of the above

17/20

2. What symbol precedes all comments in Matlab?

a) "

b) %

c) //

d) !

e) none of the above

3. Which of the following is not a pre-defined variable in Matlab.

a) pi

b) inf

c) i

d) gravity

e) j

4. This Matlab command clears all data and variables stored in memory:

a) clc

b) clear

c) delete

d) deallocate

e) none of the above

5. Characters in Matlab are represented in their value in memory.

a) decimal

b) ASCII

c) hex

d) string

e) none of the above

6. Which is these is not an aspect of a for/while loop:

a) update

b) initialization

c) runner

d) condition

e) all are aspects of loops

7. To better manage memory and prevent unnecessary memory allocations, Matlab uses: |

a) vectors

b) scalars

c) matrix math

d) delayed copy

e) licenses

8. To print a newline in a fprintf statement, you must use the following escape character: |

a) \t

b) \nl

c) \nxt

d) \n

e) none of the above

9. In Matlab, this keyword immediately moves to the next iteration of the loop: |

a) update

b) goto

c) continue

d) break

e) none of the above

10. Which of the following will correctly define x, y, and z as symbols?

a) sym (x, y, z)

b) syms x y z

c) syms x, y, z

d) sym x, y, z

e) none of the above

11. Which of these is the way to access the first element in a vector named v (assuming there is at least one element in the vector)?

a) v(0)

b) v(1)

c) v

d) v(: , 0)

e) none of the above

12. Which of the following is used to see if two elements are equal in MATLAB?

a) !=

b) ==

c) is equal

d) =

e) none of the above

13. If vector = [1 2 3 4; 11 24 92 100; 345 65 90 1]. What will the value of a be equal to if this code is entered into MATLAB >>[a b] = size (vector)? |

a) 1 2 3 4

b) 12

c) 1

d) 4

e) 3

14. What is the value of ans that is printed when the following code is run: is numeric(32)

a) 1

b) 0

c) 32

d) yes

e) true

15. If I want to save a formatted string to memory, but don't want to print it out, which command should I use?

a) fprintf

b)sprintf

c) disp

d) echo

16. To add a comment to the mfile, the MATLAB command is

A) %

B) ;

C) comment(' ')

D) &

17. When used in the fprintf command, the %g is used as the

A) single character display

B) fixed point display

C) string notation display

D) default number display

18. When used in the fprintf command, the \n is used to

A) add a space between any two characters

B) add a line space (enter key)

C) place a number into the comment

D) clear the comment

19. To display 'Question 2' in the command window, the correct command is

A) disp(Question 2)

B) display('Question 2')

C) disp('Question 2')

D) Question 2

20. The clc command is used to

A) clear the command window

B) erase everything in the mfile

C) clean the desktop

D) save the existing mfile

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

Ref: PERIIT/EEE/CC/2020-21/008 **Date: 22.06.2021**

CIRCULAR

The Electrical and Electronics Engineering Department of PERI IT has planned to conduct Add-on course titled "Workshop on Basic of Electrical Wiring" for II, III and IV year EEE students.

CODE:EW012

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II/III/IV	05-07-2021 to 10-07-2021	8.30 AM to 11.45AM	12.30 PM to 03.30 PM

Coordinator

22/6/21

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

TIME TABLE

Course Code : EW012

Course Name: Workshop on Basic of Electrical Wiring

S.No	DATE	HOURS	TOPIC
1	05.07.2021	1st-6th	Introduction to Electricity - Basic concepts (voltage, current, resistance) and overview of electrical circuits, Electrical Safety - Importance of safety in electrical work, common hazards, and safety precautions
2	06.07.2021	1st-6th	Types of Electrical Circuits - Series circuits, parallel circuits, and combination circuits, Wiring Systems - Conduit, cable, and wiring methods. Comparison of wiring materials
3	07.07.2021	1st-6th	Common Electrical Components - Switches, outlets, light fixtures, circuit breakers, Essential Tools for Electrical Wiring - Proper use and maintenance of tools
4	08.07.2021	1st-6th	Electrical Wiring Design - Basics of design, load calculations, and circuit planning, Installation Techniques - Step-by-step guide to installing electrical wiring. Proper wire stripping, termination, and connection methods
5	09.07.2021	1st-6th	Hands-on Wiring Projects - Participants work on wiring installations under supervision, applying theoretical knowledge
6	10.07.2021	1st-6th	Troubleshooting Electrical Wiring - Common wiring problems, diagnosis, and solutions. Importance of compliance with electrical codes

Coordinator

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

II - EEE

Workshop on Basic of Electrical Wiring - EW012

S. No	Register Number	Student Name
1.	411519105001	Abimanyu S
2.	411519105002	Archanajenifer C
3.	411519105003	Balaji S
4.	411519105004	Dinesh J
5.	411519105005	Durairaj M
6.	411519105006	Hariharan R
7.	411519105007	Iyappan P
8.	411519105008	Ponnarasi K
9.	411519105009	Savitha R
10.	411519105010	Surya P
11.	411519105011	Vinothkumar M

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

III - EEE

Workshop on Basic of Electrical Wiring - EW012

S. No	Register Number	Student Name
1.	411518105002	Ahalya M
2.	411518105003	Askar Ali T
3.	411518105004	Bharathi M
4.	411518105005	Dasaradhan S
5.	411518105006	Dharanimaran A
6.	411518105007	Jeeva J
7.	411518105008	Jeevagan S
8.	411518105009	Jeevitha V
9.	411518105010	Magesh B K
10.	411518105011	Mohanasri L
11.	411518105012	Mukesh E
12.	411518105013	Rajkumar M
13.	411518105014	Ritu waliya
14.	411518105015	Sanjay V
15.	411518105016	Sathish Balaji S
16.	411518105017	Subashini D
17.	411518105019	Thanigaimalai J S
18.	411518105020	Vignesh S
19.	411518105301	Jayakandan S
20.	411518105701	Rojan Steavewak A

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

IV – EEE

Workshop on Basic of Electrical Wiring - EW012

S. No	Register Number	Student Name
1.	411517105002	Annem Chaitanya Kumar Reddy
2.	411517105003	Aravind G
3.	411517105004	Arivarasi A
4.	411517105005	Arun N
5.	411517105006	Chandru S J
6.	411517105007	Deepakkumar J
7.	411517105008	Dinesh Kumar B
8.	411517105009	Donald Santhuru S
9.	411517105010	Eshwar M
10.	411517105011	Giridharan K
11.	411517105012	Goli Sai Supriya
12.	411517105013	Ilavaruna Karthik P
13.	411517105014	Jayasri A
14.	411517105015	Jeevitha S
15.	411517105016	Karan Raj S
16.	411517105017	Keerthivasan C
17.	411517105018	Manoj M
18.	411517105019	Mohamed Rizwan R
19.	411517105020	Monisha M
20.	411517105021	Mukesh S
21.	411517105022	Naveen Kumar M
22.	411517105023	Poomani R
23.	411517105024	Rahman H
24.	411517105025	Rajesh S
25.	411517105026	Rishika P
26.	411517105028	Rukmani V
27.	411517105029	Santhosh Kumar S
28.	411517105030	Sham Prabu A
29.	411517105031	Sharon Devakirubai B
30.	411517105032	Sugan C
31.	411517105033	Swetha R
32.	411517105034	Swetha S
33.	411517105036	Vani D
34.	411517105037	Vigneshwaran R
35.	411517105301	Jagan
36.	411517105302	Premraj
37.	411517105303	Vivek
38.	411517105304	Yeshwanth

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

Attendance

Course Code: EW012

Course Name: Workshop on Basic of Electrical Wiring

S. No	Register Number	Name of the Student	Date					
			05.07.2021	06.07.2021	07.07.2021	08.07.2021	09.07.2021	10.07.2021
		II - EEE						
1.	411519105001	Abimanyu S	S.Abimanyu	S.Abimanyu	S.Abimanyu	S.Abimanyu	S.Abimanyu	S.Abimanyu
2.	411519105002	Archanajenifer C	Archana.C	Archana.C	Archana.C	Archana.C	Archana.C	Archana.C
3.	411519105003	Balaji S	Balaji.S	Balaji.S	Balaji.S	Balaji.S	Balaji.S	Balaji.S
4.	411519105004	Dinesh J	Dinesh.J	Dinesh.J	Dinesh.J	Dinesh.J	Dinesh.J	Dinesh.J
5.	411519105005	Durairaj M	Durairaj.M	Durairaj.M	Durairaj.M	Durairaj.M	Durairaj.M	Durairaj.M
6.	411519105006	Hariharan R	Hariharan.R	Hariharan.R	Hariharan.R	Hariharan.R	Hariharan.R	Hariharan.R
7.	411519105007	Iyappan P	Iyappan.P	Iyappan.P	Iyappan.P	Iyappan.P	Iyappan	Iyappan
8.	411519105008	Ponnarasi K	Ponnarasi.K	Ponnarasi.K	Ponnarasi.K	Ponnarasi.K	Ponnarasi.K	Ponnarasi.K
9.	411519105009	Savitha R	Savitha.R	Savitha.R	Savitha.R	Savitha.R	Savitha.R	Savitha.R
10.	411519105010	Surya P	Surya	Surya	Surya	Surya	Surya	Surya
11.	411519105011	Vinothkumar M	Vinothkumar	Vinothkumar	Vinothkumar	Vinothkumar	Vinothkumar	Vinothkumar
		III - EEE						
1.	411518105002	Ahalya M	Ahalya.M	Ahalya.M	Ahalya.M	Ahalya.M	Ahalya.M	Ahalya.M
2.	411518105003	Askar Ali T	Askar Ali.T	Askar Ali.T	Askar Ali.T	Askar Ali.T	Askar Ali.T	Askar Ali.T
3.	411518105004	Bharathi M	Bharathi	Bharathi	Bharathi	Bharathi	Bharathi	Bharathi
4.	411518105005	Dasaradhan S	Dasaradhan.S	Dasaradhan.S	Dasaradhan.S	Dasaradhan.S	Dasaradhan.S	Dasaradhan.S

5.	411518105006	Dharanimaran A						
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Coordinator

HOD/EEE

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III -EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

Assessment

22/25

Vanky 10/09/21

Course Code : EW012

Course Name: Workshop on Basic of Electrical Wiring

1.What are the factors affecting the choice of wiring?
- a) Maintenance cost
- b) Mechanical safety
- c) Accessibility
- d) ✓ All of the above

2. What are the advantages of cleat wiring?
- a) ✓ Fault can be easily identified
- b) Poor appearance
- c) Less safety
- d) Can't use for permanent installation

3. In which one of the following wiring, the repair is difficult?
- a) ✓ Conduit wiring
- b) Batten wiring
- c) Cleat wiring
- d) Casing capping wiring

4. The current measurement is a detection in _____ electrical fault.
- a) ✓ Short circuit
- b) Open circuit
- c) Ground fault
- d) Overload fault

5. The visual inspection is a detection in _____ type of an electrical fault.
- a) Short circuit
- b) ✓ Open circuit
- c) Ground fault
- d) Overload fault

6. The lightning strikes, power surges, or faulty equipment are the causes of _____ fault type.
- a) ✓ Over voltage
- b) Under voltage
- c) Ground
- d) Open circuit

7. Which one of the following electrical wiring faults causes improper installation, aging, or damaged wires?
- a) Loose connection
- b) ✓ Damaged insulation
- c) Over lamping
- d) Reverse polarity

8. If the wire Guage is ten, then the diameter is _____ mm.
   a) 2.59 mm
   b) 2.05 mm
   c) 1.63 mm
   d) 1.29 mm

9. Which one of the following types of wiring is less expensive and poor in corrosion resistance?
   a) Copper clad aluminium wiring
   b) Pure copper wiring
   c) Aluminium wiring
   d) None of the above

10. Which one of the following types of wiring is suitable for low to medium voltage applications?
   a) Copper clad aluminium wiring
   b) Pure copper wiring
   c) Solid wire
   d) Stranded wire

11. When the conduit size is ½" then the maximum number of wires are _____?
   a) One
   b) Two
   c) Four
   d) Six

12. The resistance of copper wiring is _____ ohms/kilometre.
   a) 0.0181 ohms/kilometre
   b) 10 ohms/kilometre
   c) 70 ohms/kilometre
   d) 50 ohms/kilometre

13. What is the standard form of TRS?
   a) Transformer Rubber Sheathed
   b) Transistor Rubber Sheathed
   c) Tough Resistor Sheathed
   d) Tough Rubber Sheathed

14. What is the standard form of SWG?

   a) Standard Wire Galvanometer
   b) Standard Wire Gauge
   c) Standard Wire Glass
   d) Standard Wire Gun

15. Which one of the following wirings typically used in metric sizes?
   a) Aluminum
   b) Standard
   c) Copper clad aluminium
   d) Solid wire

16. Which one of the following types of wiring life span is short?
   a) Cleat wiring
   b) Casing capping wiring
   c) Batten wiring
   d) Conduit wiring

17. Which one of the following electrical wiring faults causes physical damage, exposure to heat or chemicals?

a) Loose connection
b) Over lamping
c) Damaged insulation
d) Reverse polarity

18. What is the standard form of MCB?

a) Main Circuit Breaker
b) Main Controller Breaker
c) Main Commutator Breaker
d) Main Circuit Board

19. What is the name of wiring if one lamp controlled from two different places?

a) Go down wiring
b) Tunnel wiring
c) Stair case wiring
d) Hostel wiring

20. What is the recommended height of socket outlet from the floor level as per BIS?

a) 1.3m
b) 2.0m
c) 2.5m
d) 3.0m

21. What is the distance between the floor and distribution board as per IE rule in domestic wiring?

a) 2m
b) 2.5m
c) 3m
d) 3.5m

22. What is the resistance value of earth continuity conductor?

a) Higher than 1 ohm to 10 ohm
b) Should not be more than one ohm
c) Greater than 10 ohm to 100 ohm
d) Greater than 100 ohm

23. Which is the length of pipe electrode used for pipe earthing?

a) Not less than 1 m
b) Not less than 1.5 m
c) Not less than 2.0 m
d) Not less than 2.5 m

24. Which type test is to be carried out to check whether the switches are connected in live wire or not?

a) Ground test
b) Polarity test
c) Insulation resistance test
d) Continuity test

25. How many numbers of single way switch and two way switch are required for Hostel wiring with 3 lamps?

a) 2 single way & 3 two way
b) 4 single way & 1 two way
c) 1 single way & 3 two way
d) 3 one way & 2 two way

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

Ref: PERIIT/EEE/CC/2020-21/005 **Date: 01.12.2020**

CIRCULAR

The Electrical and Electronics Engineering Department of PERI IT has planned to conduct Add-on course titled "Workshop on MATLAB for Power Electronics" for II, III and IV year EEE students.

CODE:EW011

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II/III/IV	14-12-2020 to 18-12-2020	8.30 AM to 11.45AM	12.30 PM to 03.30 PM

Coordinator **HoD/EEE**

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

TIME TABLE

Course Code : EW011

Course Name: Workshop on MATLAB for Power Electronics

S.No	DATE	HOURS	TOPIC
1	14.12.2020	1st-6th	Introduction to Power Electronics, Overview of power electronics applications and importance, Basic concepts: Power semiconductor devices, power converters, and their classification, Introduction to MATLAB, Overview of MATLAB environment and user interface, Basic MATLAB commands and syntax
2	15.12.2020	1st-6th	Introduction to MATLAB programming fundamentals, MATLAB for Circuit Analysis, Introduction to MATLAB toolboxes relevant to power electronics, Circuit modeling and analysis using MATLAB
3	16.12.2020	1st-6th	Introduction to Simulink for system-level simulation, Building power electronic circuits in Simulink, Simulation of power electronic converters and control systems
4	17.12.2020	1st-6th	Introduction to control techniques for power electronic converters, Implementation of control algorithms using MATLAB
5	18.12.2020	1st-6th	Optimization techniques for power electronics design, Hardware-in-the-loop (HIL) simulation using MATLAB and Simulink

Coordinator

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

II - EEE

Workshop on MAT Lab for POWER ELECTRONICS - EW011

S. No	Register Number	Student Name
1.	411519105001	Abimanyu S
2.	411519105002	Archanajenifer C
3.	411519105003	Balaji S
4.	411519105004	Dinesh J
5.	411519105005	Durairaj M
6.	411519105006	Hariharan R
7.	411519105007	Iyappan P
8.	411519105008	Ponnarasi K
9.	411519105009	Savitha R
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11.	411519105011	Vinothkumar M

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

III - EEE

Workshop on MAT Lab for POWER ELECTRONICS - EW011

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1.	411518105002	Ahalya M
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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

IV – EEE

Workshop on MAT Lab for POWER ELECTRONICS - EW011

S. No	Register Number	Student Name
1.	411517105002	Annem Chaitanya Kumar Reddy
2.	411517105003	Aravind G
3.	411517105004	Arivarasi A
4.	411517105005	Arun N
5.	411517105006	Chandru S J
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37.	411517105303	Vivek
38.	411517105304	Yeshwanth

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

Attendance

Course Code: EW011

Course Name: Workshop on MATLAB for Power Electronics

S. No	Register Number	Name of the Student	Date				
			14.12.2020	15.12.2020	16.12.2020	17.12.2020	18.12.2020
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1.	411519105001	Abimanyu S	S.Abimanyu	S.Abimanyu	S.Abimanyu	S.Abimanyu	S.Abimanyu
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5.	411519105005	Durairaj M	Durai	Durai	Durai	Durai	Durai
6.	411519105006	Hariharan R	Hariharan.R	Hariharan.R	Hariharan.R	Hariharan.R	Hariharan.R
7.	411519105007	Iyappan P	Iyappan	Iyappan	Iyappan	Iyappan	Iyappan
8.	411519105008	Ponnarasi K	Ponnarasi	Ponnarasi	Ponnarasi	Ponnarasi	Ponnarasi
9.	411519105009	Savitha R	Savitha.R	Savitha.R	Savitha.R	Savitha.R	Savitha.R
10.	411519105010	Surya P	Surya	Surya	Surya	Surya	Surya
11.	411519105011	Vinothkumar M	Vinothkumar M	Vinothkumar M	Vinothkumar	Vinothkumar	Vinothkumar
		III - EEE					
1.	411518105002	Ahalya M	Ahalya	Ahalya	Ahalya	Ahalya	Ahalya
2.	411518105003	Askar Ali T	Askar Ali	Askar Ali	Askar Ali	Askar Ali	Askar Ali
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1.	411517105002	Annem Chaitanya Kumar Reddy					
2.	411517105003	Aravind G					
3.	411517105004	Arivarasi A					
4.	411517105005	Arun N					
5.	411517105006	Chandru S J					
6.	411517105007	Deepakkumar J					
7.	411517105008	Dinesh Kumar B					
8.	411517105009	Donald Santhuru S					
9.	411517105010	Eshwar M					
10.	411517105011	Giridharan K					
11.	411517105012	Goli Sai Supriya					
12.	411517105013	Ilavaruna Karthik P					
13.	411517105014	Jayasri A					
14.	411517105015	Jeevitha S					
15.	411517105016	Karan Raj S					

16.	411517105017	Keerthivasan C					
17.	411517105018	Manoj M					
18.	411517105019	Mohamed Rizwan R					
19.	411517105020	Monisha M					
20.	411517105021	Mukesh S					
21.	411517105022	Naveen Kumar M					
22.	411517105023	Poomani R					
23.	411517105024	Rahman H					
24.	411517105025	Rajesh S					
25.	411517105026	Rishika P					
26.	411517105028	Rukmani V					
27.	411517105029	Santhosh Kumar S					
28.	411517105030	Sham Prabu A					
29.	411517105031	Sharon Devakirubai B					
30.	411517105032	Sugan C					
31.	411517105033	Swetha R					
32.	411517105034	Swetha S					
33.	411517105036	Vani D					
34.	411517105037	Vigneshwaran R					
35.	411517105301	Jagan					
36.	411517105302	Premraj					
37.	411517105303	Vivek					
38.	411517105304	Yeshwanth					

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HOD/EEE

9.GEETA

III - EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021

Assessment

23/25

Vaitej 18/12/20

Course Code : EW011
Course Name: Workshop on MATLAB for Power Electronics

1. What does the function all() do?
   a) Returns 1 if all elements within it are 0
   b) Returns 0 if all elements within it are 0
   c) Returns 0 if all elements within it are non-zero
   d) Returns 1 if all elements within it are non-zero

2. Choose the correct hierarchy of operations.
   a) |,&,+,-
   b) +,-,&,|
   c) :,+,-,&
   d) |,:,&,.^

3. MATLAB stands for?
   a) Matrix laboratory
   b) Math library
   c) Matric library
   d) Matrix library

4. Which command is used to clear a command window?
   a) clear
   b) close all
   c) clc
   d) clear all

5. To determine whether an input is MATLAB keyword, command is?
   a) iskeyword
   b) key word
   c) inputword
   d) isvarname

6. Command used to display the value of variable x.
   a) displayx
   b) disp(x)
   c) disp x
   d) vardisp('x')

7. Command is used to save command window text to file.
   a) saveas
   b) texttofile
   c) diary
   d) todiary

8. To stop the execution of a MATLAB command, used keys?
   a) ctrl+c
   b) ctrl+s
   c) ctrl+b
   d) ctrl+enter

9. Which is the invalid variable name in MATLAB?
   a) x6
   b) last
   c) 0x
   d) z

10. What are the functions to see the graph of a continuous and a discrete function?
   a) plot() & stem()
   b) cont() & disc()
   c) plot() & disc()
   d) cont() & stem()

11. If we want to plot matrix arguments, which of the following gets plotted?\
   a) Column wise inter-relation of two arguments
   b) Row wise inter-relation of two arguments
   c) Diagonally inter-relation of two arguments
   d) The arguments are incomprehensible

12. To bring the scale of each axis to logarithmically spaced, the student entered 'semilogx()'. What really happened?
   a) The plot will appear with both axis now logarithmically spaced
   b) semilogx() is an invalid function
   c) The plot will appear with x axis logarithmically spaced
   d) Error

13. After trying to plot a pie-chart, the student finds that the function he used is rose(). What is the nature of data used by the student if an output graph is generated?
   a) Angles in radians
   b) Linear bivariate
   c) Logarithmic
   d) This is not possible in MATLAB

14. To place a text on the plot using a mouse, the command used is _____
   a) gtext
   b) text
   c) title()
   d) atext

15. What is the condition on x in bar(x,y)?
   a) No condition as such
   b) Should change linearly
   c) Should increase of decrease monotonously
   d) Incomprehensible

16. If we put bar(x,y,1.2), we will get _____ bars.
   a) Uniform
   b) Damped
   c) Overlapping
   d) No

17. A student has to plot a graph of f(x)=t and g(y)=t in the same graph, with t as a parameter. The function he uses is ____
a) plot3(x,y,t)
b) plot(x,y,t)
c) disp
d) stem(x,y)

18. To exhibit time-series or spatial-series data, what kind of diagrams are suitable?
a) Pie-bar
b) Pie-chart
c) Ratio-chart
d) Bar-diagram

19. What is the difference between primary and secondary data in statistics?
a) No difference
b) The former is collected from the field of the investigation while the latter is collected from a separate entity
c) The first set of data received is Primary data while the next set is secondary data
d) The important data is primary data while the lesser important data is secondary data

20. The nature of data while using pie plots is _____ data.
a) Discrete
b) Continuous
c) Polar
d) Time-series

21. What would you use to show comparisons of profit of 3 industries over 3 quarters?
a) Histogram plot
b) Bar plot
c) Bode plot
d) Frequency plot

22. What is the difference between stem plot and histogram plot?
a) No difference
b) Histogram does not have negative values while stem may have negative values
c) Histogram cannot relate 3 variable while stem can
d) Histogram cannot be created in MATLAB

23. To display the runs scored by a batsman towards different directions in a field, one uses
a) Bar graph
b) Angle histogram
c) Histogram
d) No graph is suitable

24. A cubic system can be represented using the function ____
a) plot3
b) stem()
c) display
d) legend

25. To specify different curves in an angle histogram plot, we use the _____ function.
a) legend
b) display
c) gtext()
d) mtext

PERI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2020-2021

Ref: PERI IT /MECH /Workshop/2020-2021/01 **Date: 23.01.2021**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct (online) Workshop titled **"Workshop on Solid Works"** for the Academic year of 2022 – 2023 for II, III & IV year Mechanical students.

CODE:MEW010

Sl. No.	Year	Scheduled Date	Session 1	Session 2
1	II, III & IV	03.03.2021 – 22.05.2021	8.30 AM to 11.45AM	12.30PM to3.30PM

23/01/21

Co-Ordinator

Head of the Department

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

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1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEW010 **Year/Semester: II, III, IV / IV, VI, VIII**

Course Name: Solid works **Session: FN & AN**

Sl. No	DATE	HOURS	TOPICS
1	03.03.2021	1-6th hr	Introduction to the Solid Works interface and navigation, Customizing the workspace
2	13.03.2021	1-6th hr	Understanding sketches: lines, circles, rectangles, and constraints, Extrude and revolve features, Creating simple 3D parts
3	20.03.2021	1-6th hr	Advanced sketch tools and techniques, Loft, sweep, and fillet features
4	03.04.2021	1-6th hr	Feature patterns and mirror, Inserting and mating parts, Assembly constraints and solving issues
5	22.05.2021	1-6th hr	Creating 2D drawings from 3D models. Adding views: standard, section, detail, and auxiliary, Dimensioning and annotations, Creating exploded views and Bill of Materials (BOM), Creating sheet metal parts: bends, flanges, and flat patterns, Customizing Solid Works for improved productivity

Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2020-2021

Participants Name List

Course Name – Solid works

Course Code: MEW010 **Year/Semester: III / VI**

Sl. No	Registration Number	Student Name
1	411518114001	AJAY N
2	411518114002	AJITH KUMAR S
3	411518114003	ALLWIN RAJ SUDHAN A
4	411518114004	AMARNATH S
5	411518114005	ARAVINTH R
6	411518114006	ARUN S G
7	411518114007	AVINASH R
8	411518114008	BALAJI K
9	411518114009	BHUVAN RAJ P
10	411518114010	CHANDRASEKAR G
11	411518114011	CHANDRU A
12	411518114012	DEVENDARAKUMARAN
13	411518114013	DILLIBABU E P
14	411518114014	DIVYA S
15	411518114015	GANGULY R
16	411518114016	GOKUL S
17	411518114017	GOWTHAM T
18	411518114018	HARISH R
19	411518114019	HARISUDHAN S
20	411518114020	HEMANTH KUMAR R
21	411518114021	JAINULABDEEN J
22	411518114022	JAWAHAR S
23	411518114024	KAARTHI R A
24	411518114025	KADURU VINOD KUMAR
25	411518114026	KARTHICK K
26	411518114027	KARTHIKEYAN M
27	411518114028	KUMARESAN P
28	411518114029	LAKSHMANA PRABU K
29	411518114030	MAADESHWARAN A
30	411518114031	MANIGANDAN A
31	411518114032	MANIKANDAN P
32	411518114033	MATHIBHAVAN D
33	411518114034	MITHUN A
34	411518114035	MUTHU PRAKASH V
35	411518114037	NAVEEN R
36	411518114039	PONNAPALLI SAISUMANTH
37	411518114040	PRAVEEN KUMAR B
38	411518114041	RAGURAJ B
39	411518114042	RAHUL V
40	411518114043	RAJASRINIVASAN K
41	411518114044	RAJESHKUMAR M
42	411518114045	RAMACHANDRAN M
43	411518114046	REVANTH KUMAR S
44	411518114047	ROHIT RAGAV S S
45	411518114048	SAI SHYAM S
46	411518114051	SOUNDER S
47	411518114052	SUDARMANI V
48	411518114053	SUGAN R
49	411518114054	SURENDRAN P S
50	411518114055	SURYA L

51	411518114056	SURYA M
52	411518114057	VEERAMANI J
53	411518114058	VIGNESH K
54	411518114059	VIGNESHWARAN V
55	411518114301	DINESH S
56	411518114302	RAVIKUMAR S
57	411518114303	SUNI KAMALESH K

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-2021
Participants Name List
Course Name – Solid works

Course Code: MEW010 **Year/Semester: II / IV**

S No	Reg No	Name
1	411519114001	G. AJITH KUMAR
2	411519114002	A. AKASH
3	411519114003	C ARUN
4	411519114004	M. FAREED
5	411519114005	K. GANESH KUMAR
6	411519114006	R HARI KRISHNAN
7	411519114007	V MITHRAN
8	411519114008	M. MOHAMMED RAZOOL
9	411519114009	S. MUGUNTHARAJ
10	411519114010	M.T. NAVEEN
11	411519114011	S NEELAGANDAN
12	411519114012	T PRADEEP RAJ
13	411519114013	A. RAJ
14	411519114015	G SABARI VASAN
15	411519114016	A SANDEESH KUMAR
16	411519114018	V. SATHISH
17	411519114019	K. SATHISH KUMAR
18	411519114020	S SELVINRAJ
19	411519114021	V. SIVAKUMAR
20	411519114022	B SURYA NARAYANAN
21	411519114023	M THAHA MOHAMED
22	411519114301	S ABDUL RAJACQ
23	411519114302	AJAY MATHEW
24	411519114303	MATHAN
25	411519114305	S NAGACHARAN
26	411519114306	P. SARAVANAKUMAR.
27	411519114307	N. SUNIL.
28	411519114308	TAMILARASAN
29	411519114309	VALLARASU
30	411519114310	SHYAM KUMAR

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-2021
Participants Name List
Course Name – Solid works

Course Code: MEW010 **Year/Semester: IV / VIII**

S NO	REG NO	NAME
1	411517114001	AADESH M
2	411517114002	ABDUL HAMEED A
3	411517114003	ABINESH C
4	411517114004	ABISHEK M (19-05-1999)
5	411517114005	ABISHEK M (16-06-2000)
6	411517114007	AJAY K
7	411517114008	AJAY R
8	411517114009	AJAY MUGIL V
9	411517114010	AJAY RAJ KUMAR G
10	411517114011	AJAY VISHWA V
11	411517114012	AJITHKUMAR S
12	411517114013	AKASH C
13	411517114014	AKASH S
14	411517114016	AKASH S
15	411517114017	ALFRED ROSHAN M
16	411517114018	ANANDHA KRISHNAN M
17	411517114019	ANISH R
18	411517114020	ANNAMALAI S
19	411517114021	ANTO PRINCE P
20	411517114022	APPANDAIRAJ S
21	411517114024	ARAVIND E B
22	411517114025	ARAVINDA KUMAR M
23	411517114026	ARAVIND KUMAR S
24	411517114027	ARUL ANANDHAM A S
25	411517114028	ARUN A S
26	411517114029	ARUNKUMAR S
27	411517114030	ARUN KUMAR V

S NO	REG NO	NAME
28	411517114033	BALAJI S (18-06-1999) S
29	411517114034	BALAJI S (25-10-1999) S
30	411517114035	BARATH A
31	411517114039	BHARATH P
32	411517114040	BUVANESHWAR A
33	411517114041	CAJETAN RAHUL S A
34	411517114043	CHERUKURU TEJA
35	411517114044	DHANUSH E
36	411517114045	DHARUN NIVAS S N
37	411517114046	DINESH A
38	411517114047	DINESH B
39	411517114049	DINESH KUMAR C
40	411517114050	DIVYACHANDAR S
41	411517114051	ELUMALAI A
42	411517114052	FERNANDES K
43	411517114054	GOKULARAJA S
44	411517114055	GOKUL HARSHA P
45	411517114056	GOPESHWARAN A
46	411517114057	GOWTHAM N
47	411517114058	GOWTHAM RAJA M
48	411517114059	HARIHARAN B
49	411517114060	HARISH V
50	411517114063	JAGADEESH G
51	411517114064	JAIADITHIYAN P
52	411517114067	KAMALESH E
53	411517114068	KARAN SINGH J
54	411517114070	KARTHICKKUMAR S

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-2021
Attendance Sheet
Course Name: Solid Works

Course Code: MEW010 **Year/Semester: II, III, IV / IV, VI, VIII**

Sl. No	Registration Number	Student Name	03.03.21	13.03.21	20.03.21	03.04.21	22.05.21
Third year							
1	411518114001	AJAY N	P	P	P	P	P
2	411518114002	AJITH KUMAR S	P	P	P	P	P
3	411518114003	ALLWIN RAJ SUDHAN A	P	P	P	P	P
4	411518114004	AMARNATH S	P	P	P	P	P
5	411518114005	ARAVINTH R	P	P	P	P	P
6	411518114006	ARUN S G	P	P	P	P	P
7	411518114007	AVINASH R	P	P	P	P	P
8	411518114008	BALAJI K	P	P	P	P	P
9	411518114009	BHUVAN RAJ P	P	P	P	P	P
10	411518114010	CHANDRASEKAR G	P	P	P	P	P
11	411518114011	CHANDRU A	P	P	P	P	P
12	411518114012	DEVENDARAKUMARAN	P	P	P	P	P
13	411518114013	DILLIBABU E P	P	P	P	P	P
14	411518114014	DIVYA S	P	P	P	P	P
15	411518114015	GANGULY R	P	P	P	P	P
16	411518114016	GOKUL S	P	P	P	P	P
17	411518114017	GOWTHAM T	P	P	P	P	P
18	411518114018	HARISH R	P	P	P	P	P
19	411518114019	HARISUDHAN S	P	P	P	P	P
20	411518114020	HEMANTH KUMAR R	P	P	P	P	P
21	411518114021	JAINULABDEEN J	P	P	P	AB	P
22	411518114022	JAWAHAR S	P	P	P	P	P
23	411518114024	KAARTHI R A	P	P	P	P	P
24	411518114025	KADURU VINOD KUMAR	P	P	P	P	AB
25	411518114026	KARTHICK K	P	P	P	P	P

26	411518114027	KARTHIKEYAN M	P	P	P	P	P	
27	411518114028	KUMARESAN P	P	P	P	P	P	
28	411518114029	LAKSHMANA PRABU K	P	P	P	P	P	
29	411518114030	MAADESHWARAN A	P	P	P	P	P	
30	411518114031	MANIGANDAN A	P	P	P	P	P	
31	411518114032	MANIKANDAN P	P	P	P	P	P	
32	411518114033	MATHIBHAVAN D	P	P	P	P	P	
33	411518114034	MITHUN A	P	P	P	P	P	
34	411518114035	MUTHU PRAKASH V	P	P	P	P	P	
35	411518114037	NAVEEN R	P	P	P	P	P	
36	411518114039	PONNAPALLI SAISUMANTH	P	P	P	P	P	
37	411518114040	PRAVEEN KUMAR B	P	P	P	P	P	
38	411518114041	RAGURAJ B	P	P	P	P	P	
39	411518114042	RAHUL V	P	P	P	P	P	
40	411518114043	RAJASRINIVASAN K	P	P	P	P	P	
41	411518114044	RAJESHKUMAR M	P	P	P	P	P	
42	411518114045	RAMACHANDRAN M	P	P	P	P	P	
43	411518114046	REVANTH KUMAR S	P	P	P	P	P	
44	411518114047	ROHIT RAGAV S S	P	P	P	P	P	
45	411518114048	SAI SHYAM S	P	P	P	P	P	
46	411518114051	SOUNDER S	P	P	P	P	P	
47	411518114052	SUDARMANI V	P	P	P	P	P	
48	411518114053	SUGAN R	P	P	P	P	P	
49	411518114054	SURENDRAN P S	P	P	P	P	P	
50	411518114055	SURYA L	P	P	P	P	P	
51	411518114056	SURYA M	P	P	P	P	P	
52	411518114057	VEERAMANI J	P	P	P	P	P	
53	411518114058	VIGNESH K	P	P	P	P	P	
54	411518114059	VIGNESHWARAN V	P	P	P	P	P	
55	411518114301	DINESH S	P	P	P	P	P	
56	411518114302	RAVIKUMAR S	P	P	P	P	P	
57	411518114303	SUNI KAMALESH K	P	P	P	P	P	

Second year							
1	411519114001	G. AJITH KUMAR	P	P	P	P	P
2	411519114002	A. AKASH	P	P	P	P	P
3	411519114003	C ARUN	P	P	P	P	P
4	411519114004	M. FAREED	P	P	P	P	P
5	411519114005	K. GANESH KUMAR	P	P	P	P	P
6	411519114006	R HARI KRISHNAN	P	P	P	P	P
7	411519114007	V MITHRAN	P	P	P	P	P
8	411519114008	M. MOHAMMED RAZOOL	P	P	P	P	P
9	411519114009	S. MUGUNTHARAJ	P	P	P	P	P
10	411519114010	M.T. NAVEEN	P	P	P	P	P
11	411519114011	S NEELAGANDAN	P	P	P	P	P
12	411519114012	T PRADEEP RAJ	P	P	P	P	P
13	411519114013	A. RAJ	P	AB	P	P	P
14	411519114015	G SABARI VASAN	P	P	P	P	P
15	411519114016	A SANDEESH KUMAR	P	P	P	P	P
16	411519114018	V. SATHISH	P	P	P	P	P
17	411519114019	K. SATHISH KUMAR	P	P	P	P	P
18	411519114020	S SELVINRAJ	P	P	P	P	P
19	411519114021	V. SIVAKUMAR	P	P	P	P	P
20	411519114022	B SURYA NARAYANAN	P	P	P	AB	P
21	411519114023	M THAHA MOHAMED	P	P	P	P	P
22	411519114301	S ABDUL RAJACQ	P	P	P	P	P
23	411519114302	AJAY MATHEW	P	P	P	P	P
24	411519114303	MATHAN	P	P	P	P	P
25	411519114305	S NAGACHARAN	P	P	P	P	P
26	411519114306	P. SARAVANAKUMAR.	P	P	P	P	P
27	411519114307	N. SUNIL.	P	P	P	P	P
28	411519114308	TAMILARASAN	P	P	P	P	P
29	411519114309	VALLARASU	P	P	P	P	P
30	411519114310	SHYAM KUMAR	P	P	P	P	P

Final year							
1	411517114001	AADESH M	P	P	P	P	P
2	411517114002	ABDUL HAMEED A	P	AB	P	P	P
3	411517114003	ABINESH C	P	P	P	P	P
4	411517114004	ABISHEK M (19-05-1999)	P	P	P	P	P
5	411517114005	ABISHEK M (16-06-2000)	P	P	P	P	P
6	411517114007	AJAY K	P	P	P	P	P
7	411517114008	AJAY R	P	P	P	P	P
8	411517114009	AJAY MUGIL V	P	P	AB	P	P
9	411517114010	AJAY RAJ KUMAR G	P	P	P	P	P
10	411517114011	AJAY VISHWA V	P	P	P	P	P
11	411517114012	AJITHKUMAR S	P	P	P	P	P
12	411517114013	AKASH C	P	P	P	P	P
13	411517114014	AKASH S	P	P	P	P	P
14	411517114016	AKASH S	P	P	P	P	P
15	411517114017	ALFRED ROSHAN M	P	P	P	P	P
16	411517114018	ANANDHA KRISHNAN M	AB	P	P	P	P
17	411517114019	ANISH R	P	P	P	P	P
18	411517114020	ANNAMALAI S	P	P	P	P	P
19	411517114021	ANTO PRINCE P	P	P	P	P	P
20	411517114022	APPANDAIRAJ S	P	AB	P	P	P
21	411517114024	ARAVIND E B	P	P	P	P	P
22	411517114025	ARAVINDA KUMAR M	P	P	P	P	P
23	411517114026	ARAVIND KUMAR S	P	P	P	P	AB
24	411517114027	ARUL ANANDHAM A S	P	P	P	P	P
25	411517114028	ARUN A S	P	P	P	P	P
26	411517114029	ARUNKUMAR S	P	P	P	P	P
27	411517114030	ARUN KUMAR V	P	P	P	P	AB
28	411520114310	GOKULRAJ R	P	P	P	P	P
29	411520114311	GOWTHAM P	P	P	P	P	P
30	411520114312	JOSHUA A	P	P	P	P	P

31	411520114313	JOSHUA DANIEL M	P	P	P	P	P
32	411520114314	KISHORE B	P	P	P	P	P
33	411520114316	MANIKANDAN S	P	P	P	P	P
34	411520114317	MUKESH R	P	P	P	P	P
35	411520114318	MURALIDHARAN S	P	P	P	P	P
36	411520114319	NANDHAKUMAR S	P	P	P	P	P
37	411520114320	OM PRAKASH R	P	P	P	P	P
38	411520114321	PRASANTH M	P	P	P	P	P
39	411520114322	PRATHIBAN T	P	P	AB	P	P
40	411520114323	PUGAZHENDHI P	P	P	P	P	P
41	411520114325	SAARATHY A	P	P	P	P	P
42	411520114326	SANJAY D	P	P	P	P	P
43	411520114327	SARAVANAKUMAR P	P	P	P	P	P
44	411520114328	SARAVANAN D	P	P	P	P	P
45	411520114329	SELVIN GINO S	P	P	P	P	P
46	411520114330	SUBASH E	P	P	P	P	P
47	411520114331	SUBBRAMANIAN S	P	P	P	P	P
48	411520114333	SURIYA P	P	P	P	P	P
49	411520114334	SYED ALI F	P	P	P	P	P
50	411520114335	SYED GAYAZ BASHA H	P	P	P	P	P
51	411520114336	SYED RISWAN BASHA H	P	P	P	P	P
52	411520114337	VASUDEVAN R	P	P	P	P	P
53	411520114338	VETRIMURUGAN S	P	P	P	P	P
54	411520114341	ANAND JOTHI	P	P	P	P	P

Coordinator

HOD/MECH

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PERI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

MEW010 - Solid works

Syllabus

Session 1: Introduction to Solid Works and Basic Part modeling (6 hours)

Introduction to the Solid Works interface and navigation, customizing the workspace

Session 2: Basic Part modeling (6 hours)

Understanding sketches: lines, circles, rectangles, and constraints, Extrude and revolve features, creating simple 3D parts

Session 3: Advanced Part modeling (6 hours)

Advanced sketch tools and techniques, Loft, sweep, and fillet features,

Session 4: Assemblies and Drawings (6 hours)

Feature patterns and mirror, Inserting and mating parts, Assembly constraints and solving issues

Session 5: Generating 2D Drawings, Advanced Features and Best Practices (6 hours)

Creating 2D drawings from 3D models. Adding views: standard, section, detail, and auxiliary, Dimensioning and annotations, Creating exploded views and Bill of Materials (BOM), Creating sheet metal parts: bends, flanges, and flat patterns, Customizing Solid Works for improved productivity

Coordinator

HOD/MECH

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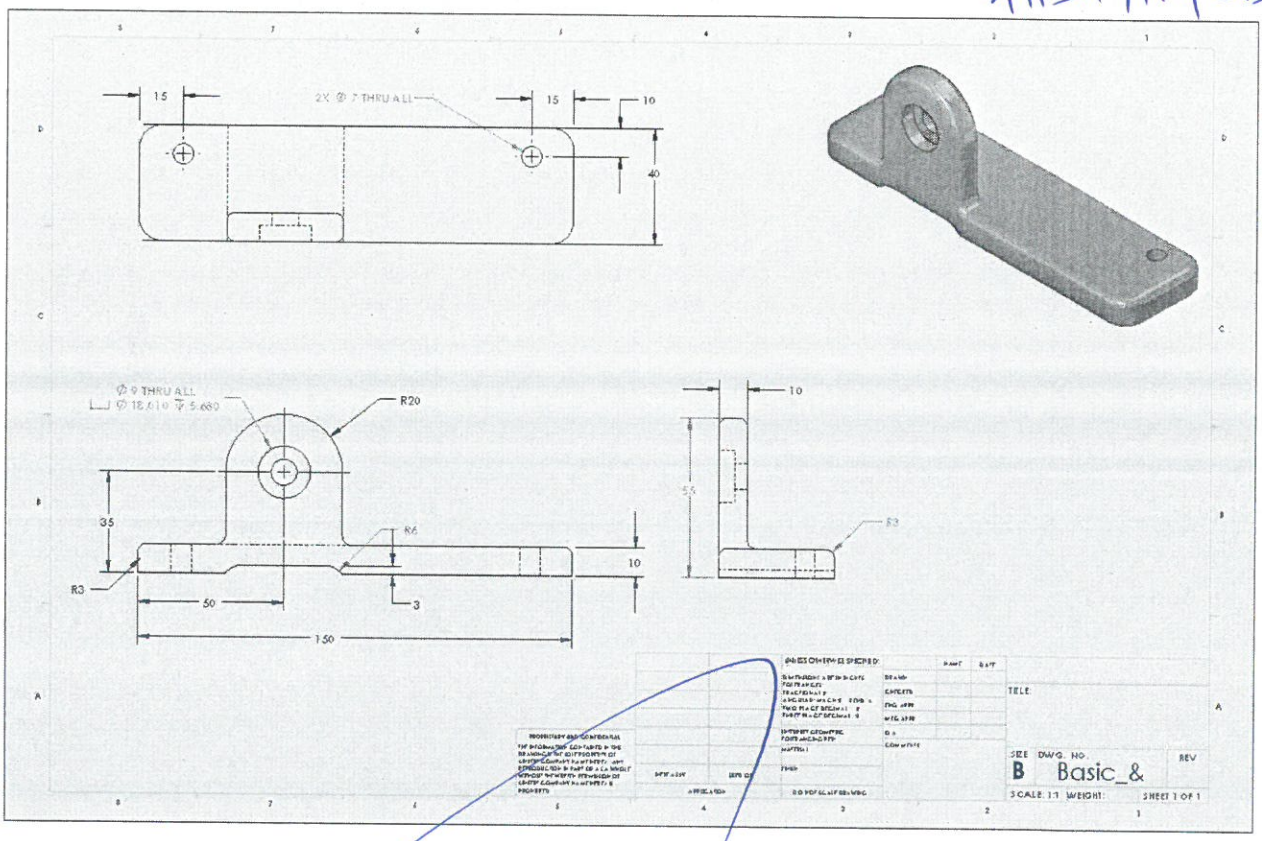
PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-2021

Assessment Test

MCW010 Solid works

Name : A. Raj
class : II yr / 4th sem
411519114013



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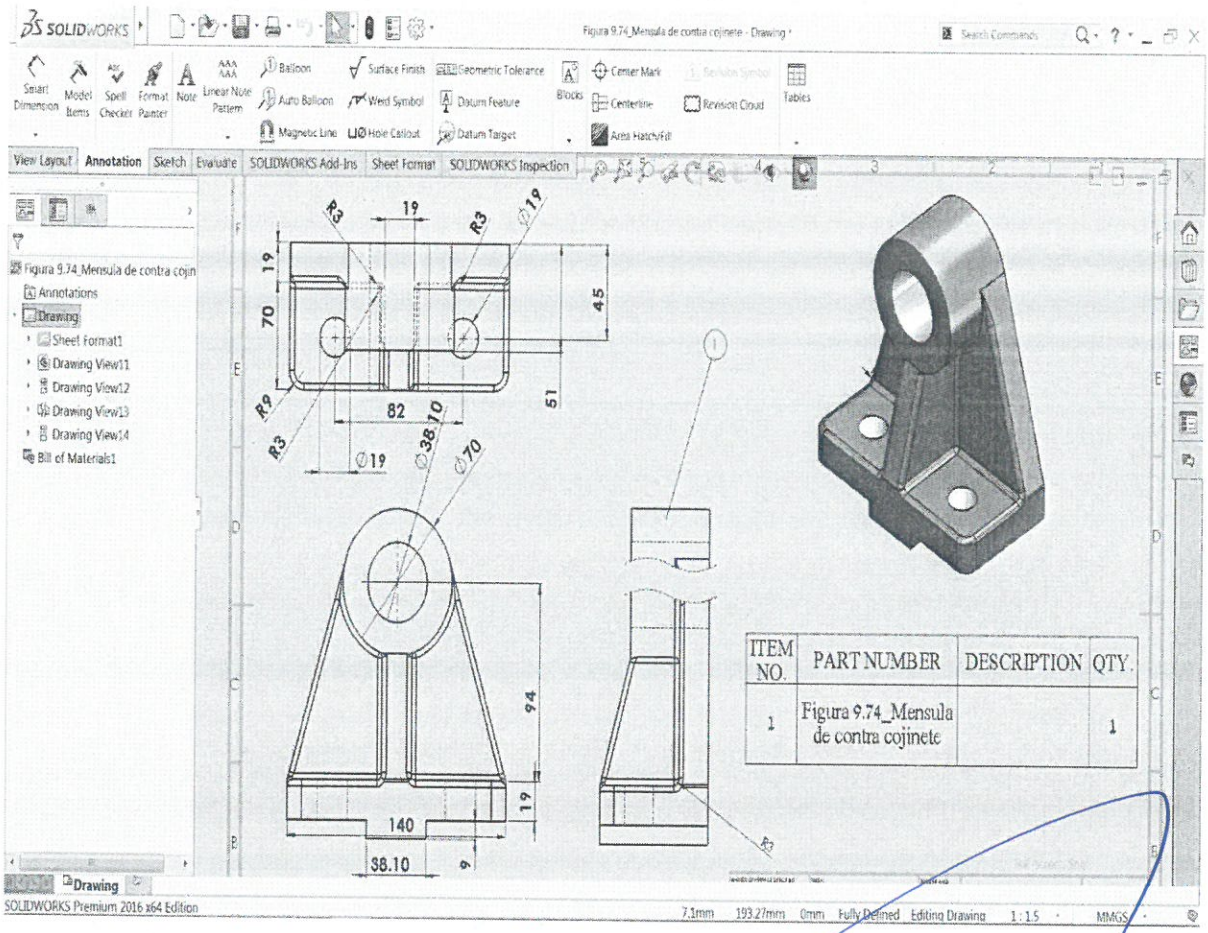
22/5/24

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-2021

Assessment Test

MCW010 Solid works

Divya S
411518114014
22/05/2021



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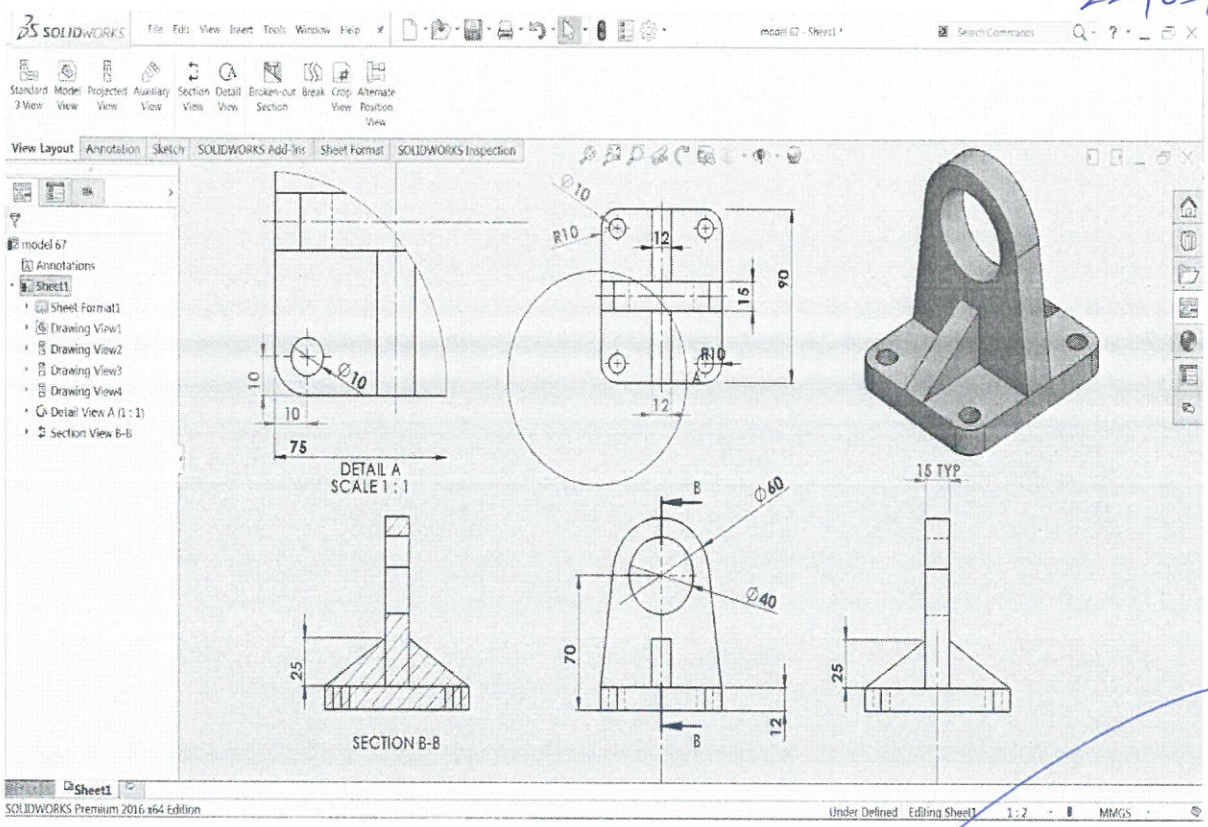
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-2021

Assessment Test

MCW010 Solid works

Akash. S
411517114016
22/05/2021



22/5/21

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INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

PERIIT /CIVIL/Add on Course /2019-2020/Even/01 **Date: 29.01.2020**

CIRCULAR

Department of Civil Engineering is planned to conduct a program titled "**CC010 Estimation and Costing using Excel**for the Academic Year 2019 – 2020 for CIVIL Engineering IVth year students.

S.No.	Year	Scheduled Date	session
1	IV	08.02.2020 to 18.04.2020	1.15p.m to 3.40 p.m

Note: Due to the covid Lockdown the Add on course will be conducted through online mode

Co-ordinator

Head of the Department

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members – Civil
5. Main – Notice Board

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

ADD ON COURSE-TIME TABLE

CC010-Estimation and Costing using Excel

S.No	Date	Hours	Topics
1	08.02.2020	6-8	Introduction to estimation- Necessity of Estimation- Units and Measurents- Types of Estimates- Methods of Estimation-Load bearing and framed structures
2	15.02.2020	6-8	Calculation of quantities of brick work, RCC, PCC, Plastering, white washing, colour washing and painting / varnishing for shops, rooms, residential building with flat and pitched roof
3	22.02.2020	6-8	Various types of arches – Calculation of brick work and RCC works in arches – Estimate of joineries for panelled and glazed doors, windows, ventilators, handrails etc.- Estimation of Steel for RCC work
4	29.02.2020	6-8	Estimating of septic tank, soak pit – sanitary and water supply installations – water supply pipe line
5	07.03.2020	6-8	sewer line – tube well – open well Estimate of bituminous and cement concrete roads
6	14.03.2020	6-8	estimate of retaining walls – culverts – estimating of irrigation works – aqueduct, syphon, fall.
7	21.03.2020	6-8	Necessity – Basics of value engineering
8	28.03.2020	6-8	Capitalised value – Depreciation – Escalation – Calculation of Standard rent
9	04.04.2020	6-8	Mortgage – Lease-Valuation of Building- Loss assessment
10	11.04.2020	6-8	Principles for report preparation – report on estimate of Official building – Culvert – Roads –
11	18.04.2020	6-8	Report on estimate of Culvert – Roads
12	25.04.2020	6-8	Water supply and sanitary installations – Tube wells – Open wells. *INTERNAL ASSESSMENT*

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

ADD ON COURSE

CC010 Estimation and Costing using Excel

STUDENTS LIST

Final Years		
S. No.	**Reg. No.**	**Name of the Students**
1	411516103002	S Anbu Raj
2	411516103003	R Balaji
3	411516103005	M Hariharan
4	411516103006	R Harshavardhan
5	411516103008	P Mohana Krishnan
6	411516103009	A Nishanthi
7	411516103010	K Raja Karuna
8	411516103011	G Sahithyan
9	411516103012	S. Sandeep
10	411516103014	S Sathish
11	411516103016	M. Surya Raj
12	411516103017	M. Vasantha Kumar
13	411516103018	J.J Vignesh
14	411516103019	M. Vinoth
15	411516103021	S Yogeshwaran
16	411516103301	Arif
17	411516103303	K Navikash
18	411516103304	Ram Prasath
19	411516103306	I Viswath Kumar
20	411516103701	K. Bagath Singh
21	411516103702	M.Hariharan

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INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING
ADD ON COURSE
Estimation and Costing using Excel 4-CC010
ACADEMIC YEAR 2019 – 2020
ATTENDANCE SHEET
Duration of course:32 Hours Number of students enrolled in the year:21

Final Years

S. No.	Reg. No.	Name of the Students	08.02.2020	15.02.2020	22.02.2020	29.02.2020	07.03.2020	14.03.2020	21.03.2020	28.03.2020	04.04.2020	11.04.2020	18.04.2020
1	411516103002	S Anbu Raj	/	/	/	/	/	/	/	/	/	/	/
2	411516103003	R Balaji	/	/	/	/	/	/	/	/	/	/	/
3	411516103005	M Hariharan	/	/	/	/	/	/	/	/	/	/	/
4	411516103006	R Harshavardhan	/	A	/	/	/	/	/	/	/	/	/
5	411516103008	P Mohana Krishnan	/	/	/	/	/	/	/	/	/	/	/
6	411516103009	A Nishanthi	/	/	/	/	/	/	/	/	/	/	/
7	411516103010	K Raja Karuna	/	/	/	/	/	/	/	/	/	/	/
8	411516103011	G Sahithyan	/	/	/	/	/	/	/	/	/	/	/
9	411516103012	S. Sandeep	/	/	/	/	/	/	/	/	/	/	/
10	411516103014	S Sathish	/	/	/	/	/	/	/	/	/	/	/
11	411516103016	M. Surya Raj	/	/	/	/	/	/	/	/	/	/	/
12	411516103017	M. Vasantha Kumar	/	/	/	/	/	/	/	/	/	/	/
13	411516103018	J.J Vignesh	/	/	/	/	/	/	/	/	/	/	/
14	411516103019	M. Vinoth	/	/	/	/	/	/	/	/	/	/	/
15	411516103021	S Yogeshwaran	/	/	/	/	/	/	/	/	/	/	/
16	411516103301	Arif	/	/	/	/	/	/	/	/	/	/	/
17	411516103303	K Navikash	/	/	/	/	/	/	/	/	/	/	/
18	411516103304	Ram Prasath	/	/	/	/	/	/	/	/	/	/	/
19	411516103306	I Viswath Kumar	/	/	/	/	/	/	/	/	/	/	/
20	411516103701	K. Bagath Singh	/	/	/	/	/	/	/	/	/	/	/
21	411516103702	M.Hariharan	/	/	/	/	/	/	/	/	/	/	/

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

ADD ON COURSE

SYLLABUS CC010 -Estimation and Costing using Excel

MODULE 1

Introduction to estimation- Necessity of Estimation- Units and Measurents-Types of Estimates- Methods of Estimation-Load bearing and framed structures Calculation of quantities of brick work, RCC, PCC, Plastering, white washing, colour washing and painting / varnishing for shops, rooms, residential building with flat and pitched roof – Various types of arches – Calculation of brick work and RCC works in arches – Estimate of joineries for panelled and glazed doors, windows, ventilators, handrails etc.- Estimation of Steel for RCC works

MODULE 2

Estimating of septic tank, soak pit – sanitary and water supply installations – water supply pipe line – sewer line – tube well – open well Estimate of bituminous and cement concrete roads – estimate of retaining walls – culverts – estimating of irrigation works – aqueduct, syphon, fall.

MODULE 3

Necessity – Basics of value engineering – Capitalised value – Depreciation – Escalation – Calculation of Standard rent – Mortgage – Lease-Valuation of Building-Loss assessment

MODULE 4

Principles for report preparation – report on estimate of Official building – Culvert – Roads – Water supply and sanitary installations – Tube wells – Open wells.

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Building Estimation

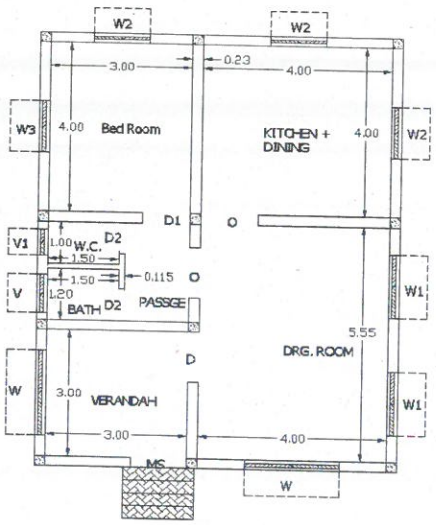
QUANTITY SHEET

Sr. No.	Item Description	No.	Length (m)	Width/ Breadth (m)	Height/ Depth (m)	Quantity	Unit
1	Earthwork in Excavation in Foundation:						
	Footing (1m x 1m)	11	2.200	2.200	1.580	84.12	cu m
	Depth From GL = 0.6 + 1 + 0.6						
	0.6 =Extra For working space						
					Total Qty=	84.12	cu m
2	Footing PCC						
	Footing (1m x 1m)	11	1.300	1.300	0.075	1.39	cu m
	Thickness = 0.075						
	D = 0.150 + 1.0 + 0.150						
					Total Qty=	1.39	cu m
3	Footing RCC						
	Base(1m x 1m)	11	1.000	1.000	0.450	4.95	cu m
	Thickness = 0.450						
					Total Qty=	4.95	cu m
4	Column up to Plinth Level RCC						
	Column	11	0.230	0.230	1.050	0.61	cu m
					Total Qty=	0.61	cu m
5	Back-filling						
5.a	Back-filling In Footing						
	Excavation Area	11	2.200	2.200	1.580	84.12	cu m
	Deduction						
	Footing P.C.C	-11	1.300	1.300	0.075	-1.39	cu m
	Footing RCC	-11	1.000	1.000	0.450	-4.95	cu m
	Footing Column	-11	0.230	0.230	1.050	-0.61	cu m
					5.a Total Qty=	77.16	cu m
5.b	Plinth Beam Back filling						
	Plinth area out to out	1	10.240	7.690	0.600	47.25	cu m
	Deduction						
	L-1	-3	10.240	0.230	0.600	-4.24	cu m
	L-2	-4	3.000	0.230	0.600	-1.66	cu m
	L-3	-3	4.000	0.230	0.600	-1.66	cu m
	L-4	-1	1.500	0.230	0.600	-0.21	cu m
	L-5	-1	2.315	0.230	0.600	-0.32	cu m
					5.b Total Qty=	39.17	cu m
					5.a + 5.b Total Qty=	116.33	cu m
6	Plinth Beam RCC						
	Beam (230 mm x 600 mm)						
	L-1	3	10.240	0.230	0.600	4.24	cu m
	L-2	4	3.000	0.230	0.600	1.66	cu m
	L-3	3	4.000	0.230	0.600	1.66	cu m
	L-4	1	1.500	0.230	0.600	0.21	cu m
	L-5	1	2.315	0.230	0.600	0.32	cu m
					Total Qty=	0.32	cu m
7	Grae Slab RCC						
	Plinth area out to out	1	10.240	7.690	0.100	7.87	cu m
	Deduction						
	Column	-11	0.230	0.230	0.100	-0.06	cu m
					Total Qty=	7.82	cu m
8	Column Up to Slab Level RCC						
	Column	11	0.230	0.230	2.650	1.54	cu m
					Total Qty=	1.54	cu m
9	Brick Masonry						
	230 mm thick wall Brick Masonry						
	Long Wall	3	10.240	0.230	2.650	18.72	cu m
	Shot wall-1	3	3.000	0.230	2.650	5.49	cu m
	Shot wall-1	1	3.000	0.230	1.200	0.83	cu m
	Shot Wall-2	3	4.000	0.230	2.650	7.31	cu m
	Deduction						
	Column	-11	0.230	0.230	2.650	-1.54	cu m
	Window W	-2	2.000	0.230	1.200	-1.10	cu m
	Window W1	-2	1.500	0.230	1.200	-0.83	cu m
	Window W2	-3	1.200	0.230	1.200	-0.99	cu m
	Window W3	-1	1.200	0.230	1.500	-0.41	cu m
	Door o	-2	1.200	0.230	2.100	-1.16	cu m
	Door D	-1	1.200	0.230	2.100	-0.58	cu m
	Door D1	-1	1.000	0.230	2.100	-0.48	cu m
	Door MS	-1	2.000	0.230	1.200	-0.55	cu m
	Vent	-1	0.900	0.230	0.600	-0.12	cu m
	Vent V1	-1	0.600	0.230	0.600	-0.08	cu m
					Total Qty 230 mm Thick Wall=	24.49	cu m
	115 mm thick wall Brick Masonry						
	Bath Room	1	1.500	0.115	2.650	0.46	cu m
	Passage wall	1	2.315	0.115	2.650	0.71	cu m
	Deduction						
	Door D2	-2	0.750	0.115	2.100	-0.36	cu m
	Parapet Wall						
	Long Wall	2	10.240	0.115	1.000	2.36	cu m
	Shot Wall	2	7.460	0.115	1.000	1.72	cu m
					Total Qty 115 mm Thick Wall=	4.87	cu m
10	In Side Plaster						
	Bed Room						
	Long Wall	2	4.000		3.000	24.00	Sq.m.
	Shot wall	2		3.000	3.000	18.00	Sq.m.
	Deduction						
	Door D1	-0.5	1.000		2.100	-1.05	Sq.m.
	Window W2	-0.5	1.200		1.000	-0.60	Sq.m.
	Window W3	-0.5	1.200		1.200	-0.72	Sq.m.
	Kitchen + Dining						
	Long Wall	2	4.000		3.000	24.00	Sq.m.
	Shot wall	2		4.000	3.000	24.00	Sq.m.
	Deduction						
	Door O	-0.5	1.200		2.100	-1.26	Sq.m.

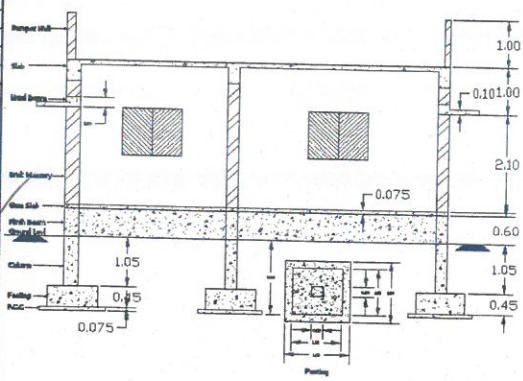
Sum Data as per Drawing	Length	Width	Height	
Plit area	10.24	7.69		
Footing P.C.C	1.3	1.3	0.075	
Footing R.C.C	1	1	0.45	
Column Size	0.23	0.23		
Plinth Beam	0.23		0.6	

SCHEDULE OF OPENINGS

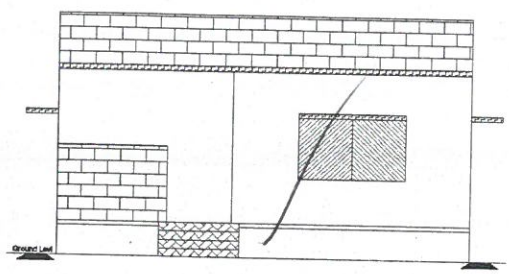
D = 1.20 x 2.10 m
D1 = 1.00 x 2.10 m
D2 = 0.75 x 2.10 m
MS = 1.20 x 2.10 m
W = 2.00 x 1.20 m
W1 = 1.50 x 1.20 m
W2 = 1.20 x 1.00 m
W3 = 1.20 x 1.20 m
V = 0.90 x 0.60 m
V1 = 0.60 x 0.60 m
CB = 1.50 x 1.80 m
CB1 = 1.20 x 1.80 m
O = 1.20 x 2.10 m
M.S. Grill = 2.0 x 1.20 m
Take Bearing of Lintel 10 cm.



Plan



Section



	Door D	-1	1.200		2.100	-2.52	Sq.m.
	Window W	-1	2.000		1.200	-2.40	Sq.m.
	DRG. Room						
	Long Wall	2	5.550		3.000	33.30	Sq.m.
	Shot wall	2		4.000	3.000	24.00	Sq.m.
	DRG. Room Ceiling	1	5.550	4.000		22.20	Sq.m.
	Deduction						
	Door O	-2	1.200		2.100	-5.04	Sq.m.
	Door D	-1	1.200		1.200	-1.44	Sq.m.
	Window W	-1	2.000		1.200	-2.40	Sq.m.
	Window W1	-2	1.500		1.200	-3.60	Sq.m.
	Bath Room						
	Long Wall	2	1.500		3.000	9.00	Sq.m.
	Shot wall	2		1.200	3.000	7.20	Sq.m.
	Bath Room Ceiling	1	1.500	1.200		1.80	Sq.m.
	Deduction						
	Door D2	-1	0.750		2.100	-1.58	Sq.m.
	Vent V1	-1	0.900		0.600	-0.54	Sq.m.
	W.C						
	Long Wall	2	1.500		3.000	9.00	Sq.m.
	Shot wall	2		1.000	3.000	6.00	Sq.m.
	W.C Ceiling	1	1.500	1.000		1.50	Sq.m.
	Deduction						
	Door D2	-1	0.750		2.100	-1.58	Sq.m.
	Vent	-1	0.600		0.600	-0.36	Sq.m.
	Passage						
	Long Wall	2	2.320		3.000	13.92	Sq.m.
	Shot wall	2		1.390	3.000	8.34	Sq.m.
	Passage Ceiling	1	2.320	1.390		3.22	Sq.m.
	Deduction						
	Door D2	-2	0.750		2.100	-3.15	Sq.m.
	Door D1	-2	1.000		2.100	-4.20	Sq.m.
	Door O	-2	1.200		2.100	-5.04	Sq.m.
				Total Qty In Side Plaster=		252.14	Sq.m.
15	Out Side Plaster						
	Front Side	1	4.450		4.775	21.25	Sq.m.
		1	3.230		2.180	7.04	Sq.m.
	Lintel W	1	2.000	1.300		2.60	Sq.m.
	Deduction						
	Door MS	-1	1.200		1.200	-1.44	Sq.m.
	Window W	-1	2.000		1.200	-2.40	Sq.m.
	Back Side	1	7.690		4.775	36.72	Sq.m.
	Lintel W 2	2	1.200	1.300		3.12	Sq.m.
	Deduction						
	Window W 2	-1	1.200		1.000	-1.20	Sq.m.
	Right Side	1	10.240		4.775	48.90	Sq.m.
	Deduction						
	Window W	-1	2.000		1.200	-2.40	Sq.m.
	Window W 3	-1	1.200		1.200	-1.44	Sq.m.
	Vent	-1	0.600		0.600	-0.36	Sq.m.
	Vent V1	-1	0.900		0.600	-0.54	Sq.m.
	Left Side	1	10.240		4.775	48.90	Sq.m.
	Deduction						
	Window W 1	-2	1.500		1.200	-3.60	Sq.m.
	Window W 2	-1	1.200		1.000	-1.20	Sq.m.
	Parapet Wall						
	Long Wall	2	10.010		1.115	22.32	Sq.m.
	Shot Wall	2		7.460	1.000	14.92	Sq.m.
				Total Out Side Plaster Qty =		191.18	Sq.m.

25/30

19/9/20

Name : R. Balaji

Reg:No : A1157B103003

year : IV

Cousse : CC010 - Estimation and Costing using Excel.

R. Balaji.

19/9/2020.

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

PERIIT /CIVIL/Add on Course /2019-2020/Even/02 **Date: 29.01.2020**

CIRCULAR

Department of Civil Engineering is planned to conduct a program titled **"CC011Workshop on Planning according to NBC"** for the Academic Year 2019 – 2020 for CIVIL Engineering II,III Year students directed to attend the program.

S.No.	Year	Scheduled Date	session
1	II,III	12-02 2020 to 15-02-2020	8.30 a.m to 3.40p.m

Note: Due to the covid Lockdown the Add on course will be conducted through online mode

Co-ordinator

Head of the Department

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

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2. Vice – Principal
3. IQAC
4. Faculty Members – Civil
5. Main – Notice Board

INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

ADD ON COURSE-TIME TABLE

CC011 -Workshop on Planning according to NBC

S.No	Date	Hours	Topics
1	12.02.2020	1-8	Land use classification and uses permitted,community open spaces and amenities. requirements of plots.classification of buildings.open spaces (within a plot). area and height limitations
2	13.02.2020	1-8	Off-street parking spaces, greenbelts, landscaping and water conservation.requirements of parts of buildings. requirements for accessibility in built environment for elders and persons with disabilities
3	14.02.2020	1-8	Special requirements of low income housing in urban areas.special requirements for cluster planning for housing,special requirements for low income habitat planning in rural areas.special requirements for development planning in hilly areas
4	15.02.2020	1-8	Fire and life safety.design and construction,lighting and ventilation.air conditioning, heating and mechanical ventilation,acoustics, sound insulation and noise control.heat insulation.sustainability,nstallation of lifts, escalators and moving walks.installation of lifts, escalators and moving walks.asset and facility management.*INTERNAL ASSESSMENT*

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

ADD ON COURSE

CC011WORKSHOP ON PLANNING ACCORDING TO NBC

STUDENTS LIST

Third Years		
1	411517103001	K. Ajeeth Kumar
2	411517103002	A. AllampatiBhaskar
3	411517103003	J. Anthony Bala
4	411517103004	R. Arun
5	411517103006	P. Balamurugan
6	411517103007	V. Bojarajan
7	411517103009	V. Dhanraj
8	411517103010	J. Jayasree
9	411517103011	C. Manikandan
10	411517103013	M. Manoj Kumar
11	411517103014	S. Masimalai
12	411517103015	S. Mohamed Yasin
13	411517103016	P. Naresh
14	411517103018	K. Pravin
15	411517103019	J. Preveen
16	411517103020	P. Sakthivel
17	411517103021	S. SathyaPriya
18	411517103022	A. Shruthi
19	411517103023	A. Shwetha
20	411517103024	K. Thamizharasan
21	411517103025	G. Vasanth
22	411517103026	M. Vijai Mohan
23	411517103301	D. Ajith Kumar
24	411517103302	P. Dhamodaran
25	411517103303	N. JashwanthNagaraj
26	411517103305	J.M. JervinRebaario
27	411517103306	G. Santhosh Kumar
Second Years		
28	411518103001	Ananda Ganapathy Kb

29	411518103002	Kiran Kumar J S
30	411518103003	Prashanth J
31	411518103004	Praveen D
32	411518103005	Praveenkumar P
33	411518103006	Raghul R
34	411518103007	Sarath Kumar M
35	411518103008	Sree Balaji D
36	411518103009	Srikanth M
37	411518103010	Surendra Kumar K
38	411518103012	Yogeshwaran P T
39	411518103301	Guru prasath
40	411518103302	Nandeeshiwaran

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DEPARTMENT OF CIVIL ENGINEERING
ADD ON COURSE
CC011-Workshop on Planning according to NBC 23
ACADEMIC YEAR 2019 – 2020

Duration of course:32 Hours Number of students enrolled in the year:40

Second Years

S.No	Reg.No	Name	12.02.2020	13.02.2020	14.02.2020	15.02.2020
1	411518103001	Ananda Ganapathy Kb	/	/	/	/
2	411518103002	Kiran Kumar J S	/	/	/	/
3	411518103003	Prashanth J	/	/	/	/
4	411518103004	Praveen D	/	/	/	/
5	411518103005	Praveenkumar P	/	/	/	/
6	411518103006	Raghul R	/	/	A	/
7	411518103007	Sarath Kumar M	/	/	/	/
8	411518103008	Sree Balaji D	/	/	/	/
9	411518103009	Srikanth M	/	/	/	/
10	411518103010	Surendra Kumar K	/	/	/	/
11	411518103012	Yogeshwaran P T	/	/	/	/
12	411518103301	Guru prasath	/	/	/	/
13	411518103302	Nandeeshiwaran	/	/	/	/

Third Years

1	411517103001	K. Ajeeth Kumar	/	/	A	/
2	411517103002	A. AllampatiBhaskar	/	/	/	/
3	411517103003	J. Anthony Bala	/	/	/	/
4	411517103004	R. Arun	/	/	/	/
5	411517103006	P. Balamurugan	/	/	/	/
6	411517103007	V. Bojarajan	/	/	/	/
7	411517103009	V. Dhanraj	/	/	/	/
8	411517103010	J. Jayasree	/	/	/	/
9	411517103011	C. Manikandan	/	/	/	/
10	411517103013	M. Manoj Kumar	/	/	/	/
11	411517103014	S. Masimalai	/	/	/	/
12	411517103015	S. Mohamed Yasin	/	/	/	/
13	411517103016	P. Naresh	/	/	/	/
14	411517103018	K. Pravin	/	/	/	/
15	411517103019	J. Preveen	/	/	/	/
16	411517103020	P. Sakthivel	/	/	/	/
17	411517103021	S. SathyaPriya	/	/	/	/
18	411517103022	A. Shruthi	/	/	/	/
19	411517103023	A. Shwetha	/	/	/	/
20	411517103024	K. Thamizharasan	/	A	/	/
21	411517103025	G. Vasanth	/	/	/	/
22	411517103026	M. Vijai Mohan	/	/	/	/
23	411517103301	D. Ajith Kumar	/	/	/	/
24	411517103302	P. Dhamodaran	/	/	/	/
25	411517103303	N. JashwanthNagaraj	/	/	/	/
26	411517103305	J.M. JervinRebaario	/	/	/	/
27	411517103306	G. Santhosh Kumar	/	/	/	/

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019-2020

ADD ON COURSE

SYLLABUS CC011 -Workshop on Planning according to NBC

MODULE 1

Land use classification and uses permitted.community open spaces and amenities. requirements of plots.classification of buildings.open spaces (within a plot). area and height limitations

MODULE 2

Off-street parking spaces, greenbelts. landscaping and water conservation.requirements of parts of buildings. requirements for accessibility in built environment for elders and persons with disabilities

MODULE 3

Special requirements of low income housing in urban areas.special requirements for cluster planning for housing.special requirements for low income habitat planning in rural areas.special requirements for development planning in hilly areas

MODULE 4

Fire and life safety.design and construction.lighting and ventilation.air conditioning. heating and mechanical ventilation.acoustics. sound insulation and noise control.heat insulation.sustainability.Installation of lifts. escalators and moving walks.nstallation of lifts. escalators and moving walks.asset and facility management

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2019-2020
ADD ON COURSE-ASSESSMENT -I
CC011 –Workshop on Planning according to NBC

Year/Sem/Sec	III/VI	Date	15.02.2020
Department	CIVIL	Duration	45 minutes
Faculty	E.EZHILARASI	Max. Marks	25

Note: MARK THE CORRECT ANSWER IN THE SPACE PROVIDED

1. According to the National Building Code of India, industrial buildings fall under the category of ___.			
A	GROUP-F	B	GROUP-F
C	GROUP-A	D	GROUP-G
2. Code green stands for _____.			
A	fire	B	smoke
C	intruder	D	evacuation
3. Which of the following NFPA code deals with Hazardous material code?			
A	NFPA400	B	NFPA 150
C	NFPA 101	D	NFPA 200
4. Which of the following NFPA code deals with standard for portable fire extinguisher?			
A	NFPA 4	B	NFPA 10
C	NFPA 5	D	NFPA 11
5. According to National Building Code of India, industrial buildings are categorized under ___ of occupancy.			
A	Group F	B	Group E
C	Group G	D	Group H
6. Which of the following is NFPA code used for installation of fire water pump?			
A	NFPA 25	B	NFPA 22
C	NFPA 20	D	NFPA 23
7. As per BIS 1990 open static water tank shall be cleaned ?			
A	Once in a 6 Months	B	Once in a 48 Months
C	Once in a 24 Months	D	Once in a 12 Months
8. What is the OSHA standard for an emergency action plan?			
A	Standard 29 CFR 1910.38	B	Standard 31 CFR 1910.38
C	Standard 31 CFR 1910.38		
9. Standard for Fire Safety and Emergency Symbols comply with the ___.			
A	NFPA 1	B	NFPA 50
C	NFPA 100	D	NFPA 170
10. The purpose of the NBC is to provide for all buildings and structures, a			

framework of standards and requirements which is the			
A	. maximum	B	minimum
C	. regular	D	definite
11. Under the NBC abutment on lot lines are allowed only in			
A	R-1 zones	B	R-2 & R-3 zones
C	Fire zones	D	prohibited zones
12. Under the NBC, every corridor and exterior exit balcony servings as a required exit for an occupant load of more than ten width shall not be less than			
A	. 1.10 mts	B	1.20 mts
C	. 1.40 mts	D	. 1.50 mts
13.Under the NBC, the vertical distance between landingsshall not be more than			
A	. 2.5 mts	B	. 3.00 mts
C	3.30 mts	D	3.60 mts
14.Under the NBC, open spaces for cornersand through lots is			
A	. 10%	B	20%
C	40%	D	50%
15. Under the NBC, open spaces inside lots is			
A	20%	B	. 30%
C	. 40%	D	. 50%
16. Under the NBC, space required for interior lots is			
A	. 20%	B	30%
C	. 40%	D	50%
17. Under the NBC, the minimum dimension for court or near yard from the property lineto the face of the building is			
A	1.50 mts	B	2.00 mts
C	. 2.50 mts	D	. 3.00 mts
18. Under the NBC, a building in R-1 zone shall comply with the open space requirementin the form of			
A	3.00 mts	B	4.00 mts
C	5.00 mts	D	6.00 mts
19. Under the NBC, clearance between established grade of the street and/ or sidewalk and the lowest under surface of any part of the balcony shall not less than			
A	. 2.10 mts	B	. 2.40 mts
C	. 3.00 mts	D	3.60 mts
20. Under the NBC, the interior lots shall have an access road with a minimum width of			
A	1.50mts	B	2.40 mts
C	3.00 mts	D	3.60 mts
21. Under the NBC, gasoline filling and service stations shall classified under whatoccupancy classification?			
A	. accessory	B	. assembly
C	. industrial	D	. business & mercantile
22. Under the NBC, display windows or wall signs within how many meters above thesidewalk			
A	2.40 mts	B	. 2.70 mts

C	3.00 mts	D	3.30 mts
23. Under the NBC, areas where adequate parking lots/ multi-floor parking garages areavailable within 200 mts. of the proposed building / structures only what percent of the parking requirements maybe provided within the premises?			
A	10 %	B	15%
C	20%	D	25%
24. Under the NBC, the minimum requirements for a parking space is			
A	600 mm	B	. 750 mm
C	. 900 mm	D	1000 mm
25. Under the NBC, for Group A Dwellings, stairs shall have a clear width of at least			
A	2.30x4.70	B	2.50x5.00
C	2.80x5.50	D	3.00x6.00

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE-ASSESSMENT -I

CC011 on Planning according to NBC

WRITE THE OPTIONS IN THE GIVEN SPACE

Year/Sem/Sec	III/VI	**Date**	17.04.2021
Department	CIVIL	**Duration**	45 minutes
REGISTER No.	411517103016	**Marks Obtained**	21
STUDENT NAME	P. NARESH	**Signature**	P. Naresh

Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION	Q.NO	OPTION
1	D ✓	6	C	11 ✓	A ✗	16 ✓	D ✓	21	D ✓
2	D ✓	7	A	12 ✓	B ✓	17 ✓	B ✓	22	C ✓
3	A ✓	8	D ✗	13 ✓	D ✓	18	C ✓	23	C ✓
4	B ✓	9	B ✗	14 ✓	A ✓	19	C ✓	24	B
5	C ✓	10	A ✗	15	A ✓	20	C ✓	25	B ✓ ✓

21/25

17/4/21

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2019-2020

Ref: PERIIT /CSE/CC/2019-2020/06 **Date: 11.08.2019**

CIRCULAR

The Department of Computer Science and Engineering is planning to conduct a program titled "Workshop on IOT and its applications" for the Academic Year 2019 – 2020. IV year Computer Science and Engineering students are directed to attend the program.

CODE:CS020

S.No.	Year	Scheduled Date	Time
1	IV	16-08-2019 TO 20-08-2019	8.30 AM to 3.30 PM

Co-ordinator **Head of the Department**

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members –CSE Staffs
5. Main – Notice Board

PERI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2019-2020

AGENDA OF THE MEETING

Course Code: CS020 **Year/Semester: IV year**

Course Name: IOT and its applications **Session: FN & AN**

Particulars	Session	Topic covered
DATE: 16-08-2019 TO 20-08-2019 **VENUE: CONFERENCE HALL**	FN & AN	**Module 1: Internet of Things (IoT)** What Is the Internet of Things?-Machine to Machine / User-less Communication-Common Use Cases-Components of an IoT Solution-Open Source and Commercial Examples-Competing Standards for IoT-IoT specialization: Industrial, Medical/Healthcare, Automotive, Energy/Utilities, Financial
	FN & AN	**Module 2: Acquiring Data** Traditional Data Storage-Analog and Digital I/O Basics-Sensors and Data Collection Points-Embedded Platforms and Microcontrollers-Software Development-Device Security: Physical and Logical-Connectivity Options-Connecting Sensors to the Cloud-Scaling Number of Sensors
	FN & AN	**Module 3: Utilizing Data** Collecting and Storage of IoT Sensor Data-Data Aggregation-Processing IoT Data-Privacy and Security -Analysis and Visualization of Data-How the work together: Cloud and IoT-Big Data and IoT-Use Cases for IoT Data
	FN & AN	**Module 4: Implementing IoT** Embedded Operating Systems-Linux and Windows-Based IoT -Cloud-based Data Collection-On-Going IoT Operations

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2019-2020

Students name list for IOT and its Applications (11.10.2020 to 15.10.2020)

S..No.	Register Number	Name of the Student
1.	411517104001	Aarthi M M
2.	411517104002	Aarthi S
3.	411517104003	Abhinav R
4.	411517104004	Abinaya A
5.	411517104005	Abishek Kumar K
6.	411517104006	Afzal Rahman N
7.	411517104007	Ajith andrew J
8.	411517104008	Ajithkumar T
9.	411517104009	Ajith kumar I
10.	411517104010	Ambati srinivasarao
11.	411517104011	Anukul kiran B
12.	411517104012	Anusha iyer B
13.	411517104013	Aravindh A
14.	411517104015	Archana B S
15.	411517104016	Ashwath Jabez

		Thomson R
16.	411517104017	Bharath R
17.	411517104018	Bhuvaneshwari P
18.	411517104019	Chakali viswatheja
19.	411517104020	Charan kumar K
20.	411517104021	Chengaiah P
21.	411517104022	Dhakshana moorthy R
22.	411517104023	Dharmaraj M
23.	411517104024	Dhaya B
24.	411517104025	Ebenezer Solomon E
25.	411517104026	Elavarasan M
26.	411517104027	Erupalli venu
27.	411517104028	Ganesh K
28.	411517104029	Ganeshkumar P
29.	411517104030	Ganta Harischandra Prasad
30.	411517104031	Gayathri S
31.	411517104032	Gokul S
32.	411517104033	Gowthami U
33.	411517104034	Hariharan J
34.	411517104035	Hari Krishnan N
35.	411517104036	Hari priya S
36.	411517104037	Hemaranjanee A

37.	411517104038	Jagadeshwaran J
38.	411517104039	Jameer Syed Ibrahim J
39.	411517104040	Jothi lakshmi M
40.	411517104041	Kankanala Tejo Abhinay Kumar
41.	411517104044	Karthikeyan P V
42.	411517104045	Kaviya sree N
43.	411517104046	Keerthiga V
44.	411517104049	Lalith Kumar S
45.	411517104051	Lokeshwar S
46.	411517104052	Madhu Mani G
47.	411517104053	Manikandan H
48.	411517104054	Manikandan S
49.	411517104055	Mathan kumar P
50.	411517104058	Muppavarapu vinod
51.	411517104059	Murugappan K
52.	411517104060	Muthu A
53.	411517104062	Narayanee V
54.	411517104063	Nattudurai P
55.	411517104064	Nithya shree K
56.	411517104065	Nivethitha R B
57.	411517104066	Padmanaban P

58.	411517104067	Pallpolu Govardhan Reddy
59.	411517104069	Poornima A
60.	411517104070	Pothuru Venkata Likhith Suraj
61.	411517104071	Pradeep kumar S
62.	411517104072	Prasanth M
63.	411517104073	Praveen S U
64.	411517104074	Praveen kumar A
65.	411517104075	Praveen Kumar C
66.	411517104076	Praveen kumar M
67.	411517104077	Pravindhran R
68.	411517104078	Preetha M
69.	411517104079	Priya R
70.	411517104080	Raaj Akhas Nithish S V
71.	411517104081	Ragul K
72.	411517104082	Ragul Gandhi D
73.	411517104083	Raja ragavan I
74.	411517104085	Ramakrishnan V
75.	411517104086	Rohit P
76.	411517104087	Roopan Abishek M
77.	411517104088	Safiya S
78.	411517104090	Sanjay S

79.	411517104093	Sathana R
80.	411517104094	Sathiya priya S
81.	411517104095	Senthatti S
82.	411517104096	Senthil kumar D
83.	411517104097	Sheefa Y
84.	411517104098	Sindhuja U
85.	411517104099	Siva karthick S
86.	411517104100	Sonia D M
87.	411517104101	Soriyamani I
88.	411517104102	Sowmiya C
89.	411517104103	Sri devi M
90.	411517104104	Supraja M
91.	411517104105	Surendran S
92.	411517104106	Utukuri Naga Venkata Sai Manikanta
93.	411517104107	Vallarasu R
94.	411517104108	Varsha R
95.	411517104109	Varun G
96.	411517104110	Vasanthan K
97.	411517104111	Vasanth Raj S N
98.	411517104112	Vema Vamsi Revanth
99.	411517104113	Vignesh B

100.	411517104115	Vigneshwar R
101.	411517104116	Vijaya anandan T
102.	411517104117	Vishal M
103.	411517104119	Vishalkaarthik R R
104.	411517104120	Vishnu M
105.	411517104121	Vishnu M K
106.	411517104122	Yalmozhi D
107.	411517104124	Yuvanesh Kanna S P
108.	411517104125	Yuvashri U
109.	411517104302	Naveen C
110.	411517104701	Catherine Ruth W D

10/9/2019

Co-ordinator

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

PERI
INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2019-2020

Attendance Sheet for IOT and its Applications(11.10.2020 to 15.10.2020)

S..No.	Register Number	Name of the Student	11.10.20	12.10.20	13.10.20	14.10.20	15.10.20
1.	411517104001	Aarthi M M					
2.	411517104002	Aarthi S					
3.	411517104003	Abhinav R					
4.	411517104004	Abinaya A					
5.	411517104005	Abishek Kumar K					
6.	411517104006	Afzal Rahman N					
7.	411517104007	Ajith andrew J					
8.	411517104008	Ajithkumar T					
9.	411517104009	Ajith kumar I					
10.	411517104010	Ambati srinivasarao					
11.	411517104011	Anukul kiran B					
12.	411517104012	Anusha iyer B					
13.	411517104013	Aravindh A					
14.	411517104015	Archana B S					
15.	411517104016	Ashwath Jabez					

		Thomson R					
16.	411517104017	Bharath R					
17.	411517104018	Bhuvaneshwari P					
18.	411517104019	Chakali viswatheja					
19.	411517104020	Charan kumar K					
20.	411517104021	Chengaiah P					
21.	411517104022	Dhakshana moorthy R					
22.	411517104023	Dharmaraj M					
23.	411517104024	Dhaya B					
24.	411517104025	Ebenezer Solomon E					
25.	411517104026	Elavarasan M					
26.	411517104027	Erupalli venu					
27.	411517104028	Ganesh K					
28.	411517104029	Ganeshkumar P					
29.	411517104030	Ganta Harischandra Prasad					
30.	411517104031	Gayathri S					
31.	411517104032	Gokul S					
32.	411517104033	Gowthami U					
33.	411517104034	Hariharan J					
34.	411517104035	Hari Krishnan N					
35.	411517104036	Hari priya S					
36.	411517104037	Hemaranjanee A					

37.	411517104038	Jagadeshwaran J						
38.	411517104039	Jameer Syed Ibrahim J						
39.	411517104040	Jothi lakshmi M						
40.	411517104041	Kankanala Tejo Abhinay Kumar						
41.	411517104044	Karthikeyan P V						
42.	411517104045	Kaviya sree N						
43.	411517104046	Keerthiga V						
44.	411517104049	Lalith Kumar S						
45.	411517104051	Lokeshwar S						
46.	411517104052	Madhu Mani G						
47.	411517104053	Manikandan H						
48.	411517104054	Manikandan S						
49.	411517104055	Mathan kumar P						
50.	411517104058	Muppavarapu vinod						
51.	411517104059	Murugappan K						
52.	411517104060	Muthu A						
53.	411517104062	Narayanee V						
54.	411517104063	Nattudurai P						
55.	411517104064	Nithya shree K						
56.	411517104065	Nivethitha R B						
57.	411517104066	Padmanaban P						

58.	411517104067	Pallpolu Govardhan Reddy						
59.	411517104069	Poornima A						
60.	411517104070	Pothuru Venkata Likhith Suraj						
61.	411517104071	Pradeep kumar S						
62.	411517104072	Prasanth M						
63.	411517104073	Praveen S U						
64.	411517104074	Praveen kumar A						
65.	411517104075	Praveen Kumar C						
66.	411517104076	Praveen kumar M						
67.	411517104077	Pravindhran R						
68.	411517104078	Preetha M						
69.	411517104079	Priya R						
70.	411517104080	Raaj Akhas Nithish S V						
71.	411517104081	Ragul K						
72.	411517104082	Ragul Gandhi D						
73.	411517104083	Raja ragavan I						
74.	411517104085	Ramakrishnan V						
75.	411517104086	Rohit P						
76.	411517104087	Roopan Abishek M						
77.	411517104088	Safiya S						
78.	411517104090	Sanjay S						

79.	411517104093	Sathana R					
80.	411517104094	Sathiya priya S					
81.	411517104095	Senthatti S					
82.	411517104096	Senthil kumar D					
83.	411517104097	Sheefa Y					
84.	411517104098	Sindhuja U					
85.	411517104099	Siva karthick S					
86.	411517104100	Sonia D M					
87.	411517104101	Soriyamani I					
88.	411517104102	Sowmiya C					
89.	411517104103	Sri devi M					
90.	411517104104	Supraja M					
91.	411517104105	Surendran S					
92.	411517104106	Utukuri Naga Venkata Sai Manikanta					
93.	411517104107	Vallarasu R					
94.	411517104108	Varsha R					
95.	411517104109	Varun G					
96.	411517104110	Vasanthan K					
97.	411517104111	Vasanth Raj S N					
98.	411517104112	Vema Vamsi Revanth					
99.	411517104113	Vignesh B					

100.	411517104115	Vigneshwar R					
101.	411517104116	Vijaya anandan T					
102.	411517104117	Vishal M					
103.	411517104119	Vishalkaarthik R R					
104.	411517104120	Vishnu M					
105.	411517104121	Vishnu M K					
106.	411517104122	Yalmozhi D					
107.	411517104124	Yuvanesh Kanna S P					
108.	411517104125	Yuvashri U					
109.	411517104302	Naveen C					
110.	411517104701	Catherine Ruth W D					

10/9/2019.

Co-ordinator

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
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PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

FEEDBACK FORM

DATE: 20/08/2019

Name of the Student: Gengathri. S
Register No: 411517104031
Year/Semester IV / 7th
Course Code: CS020
Course Name: IOT & application

1. What is your assessment of the course material?

The assessment of the course was very help full

2. How effective was the instructor's delivery of the content?

the content is cleared explained, I got more knowledge

3. Rate the overall quality of the program.

★★★★ (4 star)

4. Would you suggest this program to your peers or underclassmen?

Yes

5. Suggestions for enhancement, if any:

No Suggestions

Signature of the Student
Gengathri. S

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

FEEDBACK FORM

DATE: 20/08/2019

Name of the Student: Haripriya.S
Register No: 411571104036
Year/Semester IV/VII
Course Code: CS020
Course Name: IoT and its application

1. What is your assessment of the course material?

The content is given by the instructor's are very useful. In examination ascepts the material is more than enough for us.

2. How effective was the instructor's delivery of the content?

It's very clearly explained and I understand the whole concept of the IoT.

3. Rate the overall quality of the program.

★★★★★ (5 star)

4. Would you suggest this program to your peers or underclassmen?

Yes

5. Suggestions for enhancement, if any: Give the Real time Project in IoT.

Signature of the Student

Haripriya.S

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2020-2021

FEEDBACK FORM

DATE: 20.8.2019

Name of the Student: GIANESH. K
Register No: 411517104027
Year/Semester FINAL YEAR / 7th
Course Code: CS020
Course Name: IOT AND ITS APPLICATION.

1. What is your assessment of the course material?

   The assessment of the course material is enough for my exams.

2. How effective was the instructor's delivery of the content?

   The instructor deliver the content. It is very helpful for us.

3. Rate the overall quality of the program.

   ★★★★★ 5 star.

4. Would you suggest this program to your peers or underclassmen?

   Yes. I suggest this program for my underclassmen

5. Suggestions for enhancement, if any:

   No suggestions.

Signature of the Student

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2019-2020

Ref: PERIIT /ECE/Add-On Course/2019-20/01 **Date: 03.10.2019**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "INDUSTRIAL BASED EMBEDDED SYSTEM" for the Academic Year 2019 – 2020 for II & III year ECE students.

CODE : ECW011

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II,III	08.10.2019-15.10.2019	10.00AM to 11.45AM	12.30PM to 3.30PM

Co-ordinator

Head of the Department

Head of the Department
ELECTRONICS AND COMMUNICATION ENGINEERING
PERI INSTITUTE OF TECHNOLOGY
CHENNAI - 600 048.

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members -ECE
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Workshop Code: ECW011 **Year:II & III**

Workshop Name: Industrial Based Embedded System **Session: FN &AN**

S.No	DATE	HOURS	TOPIC
1	08.10.2019	3rd-8th	Introduction of EMBEDDED C-Inter working of Assembly & Embedded C Programming & Interfacing using EMBEDDED C
2	09.10.2019	3rd-8th	-Interfacing of LCD-Interfacing of Switches & Keyboard Matrix-Interrupt driven Programming-Computer Languages-Embedded Development Tools
3	10.10.2019	3rd-8th	Designing with Microcontrollers-Advanced Embedded System PIC-Classification of Microprocessor & Microcontroller
4	11.10.2019	3rd-8th	Brief Introduction to Computer Architecture-Introduction to PIC18 Compiler/ Simulator-Protocol Interfacing-Introduction to CCP and ECCP programming-
5	14.10.2019	3rd-8th	Embedded Systems with Microcontroller (AVR). Embedded Systems (ARM)-Embedded development tools-Real world interfacing – MOTORS-
6	15.10.2019	3rd-8th	Introduction to PIC18 Compiler-ASP Embedded System Generic Handlers-Block Description of PIC 18F458

Coordinator **HOD/ECE**

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
II/ECE

S.NO.	REG. NO	STUDENT NAME
1	411518106001	ABINAYA S
2	411518106002	AJAYKUMAR D
3	411518106004	ANGELO JUDE DUMENIL
4	411518106007	ASHWINI M
5	411518106008	ASLAM BADUS HA I
6	411518106009	BARATHWAJ K R
7	411518106011	BEVINA M
8	411518106012	BUDDANNAGARI MADHU
9	411518106014	DINESH S
10	411518106015	EVANGLIN S
11	411518106017	GENJI MUKHESH REDDY
12	411518106018	GOKUL KRISHNAN M
13	411518106019	HABIBUNNISHA
14	411518106020	INTHIRAN R
15	411518106021	ISHRATH JABEEN S
16	411518106023	JAYAKAMALA NARAYANAN N
17	411518106024	JEEVA B M
18	411518106026	KALAIVANI CHAKKARAPANI
19	411518106028	KAVITHA R
20	411518106030	KIRUBAKARAN S
21	411518106031	KOKILAVANI P
22	411518106036	MALLAVARAPU SHREYA
23	411518106037	MANOJ KUMAR N
24	411518106038	MIDHUNA VARSHINI J
25	411518106039	MOHANKUMAR P
26	411518106046	NIDHI SELVAN J C
27	411518106048	PRASANTH R
28	411518106049	PRAVEENA R
29	411518106050	PRAWIN CHANDAR B
30	411518106054	RAMESH ARAVIND T
31	411518106055	RAYAPATI SOWMYA SUHANNA PRIYA
32	411518106056	RINOZA K
33	411518106059	SANJAI SAIRAM S K
34	411518106064	SUNDAR R
35	411518106065	SURYA D
36	411518106067	SUVASNA M

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
II/ECE

37	411518106069	VAKA HARSHITHA
38	411518106072	YASER ABDUL RAHEEM K S
39	411518106003	AKASH PRIYADHARSAN B
40	411518106005	ANUGU PAVAN
41	411518106006	ARIVUKARASU T
42	411518106010	BESTHA BHAVANA RAVIKUMAR
43	411518106013	CHANDRU M
44	411518106016	GANESH A
45	411518106022	JANANI PRIYA D
46	411518106025	JOTHIKA V
47	411518106027	KAMALESH J
48	411518106029	KIRAN RAJ A
49	411518106032	KUMARAN K
50	411518106033	LAGADAPATI BADRINATH
51	411518106035	MAHESH KUMAR V
52	411518106040	MONISH B
53	411518106041	MUKESH S
54	411518106042	MUKUNTHAN S
55	411518106043	NAGASUBA G
56	411518106044	NAVEEN S
57	411518106045	NEELAM PRANAY SA
58	411518106047	NITHISH KUMAR C
59	411518106051	PREM KUMAR M D
60	411518106052	RAGAPRIYA M
61	411518106057	RITHICKANAND N
62	411518106058	SAMEERA BANU B
63	411518106060	SANJAY RAMESH R
64	411518106062	SRIRAM I
65	411518106063	SUJAI MATHEW B
66	411518106066	SURYA G
67	411518106068	THIRAVIDAR SELVAM G
68	411518106070	VENKATESH R
69	411518106071	YAKESH G
70	411518106301	ARUN KUMAR.E
71	411518106302	LOGESH.S
72	411518106303	ZAINUL KHAN.A

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
III/ECE

S.NO.	REG. NO	STUDENT NAME
1	411517106001	AAKASH C.S
2	411517106002	AAKASH RAJ S
3	411517106003	ABDULLA A
4	411517106004	AGNISHA V.
5	411517106005	AILEEN MERCYBELL A
6	411517106006	AKASH S
7	411517106008	ANNAPUREDDY DHANA LAKSHMI A
8	411517106009	ARASAVALLI TEJA DURGA SAI S.
9	411517106010	ARUN K.S.
10	411517106011	ARUNESHWARAN M
11	411517106012	ASHIKA K
12	411517106013	BALAJI N
13	411517106014	VAMSI KRISHNA B.
14	411517106015	BHARATH BALAJI R
15	411517106016	BOYA VENKATA RAKESH B.
16	411517106018	CHINTALA.SUPRIYA S.
17	411517106019	CHUKKA MONICA B.
18	411517106020	DEEPIKA M.
19	411517106021	DELLI GANESH G
20	411517106022	DINESH V
21	411517106023	DIVYA PRIYA R.
22	411517106024	EURO SRI M.

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
III/ECE

23	411517106025	GADIKOTA DEEKSHITHA G.
24	411517106026	GADI MANO VARSHITH G.
25	411517106027	GANESH KARAN K
26	411517106028	GAYATHRI K
27	411517106029	GNANAPRASATH L
28	411517106030	GUPENDHIRAN S
29	411517106031	GURRALA HARI R.
30	411517106032	GURUDHARSAN B
31	411517106033	HARIHARAN K
32	411517106034	HARIPRIYA B.
33	411517106035	ILANGO M
34	411517106036	JAIGANESH S
35	411517106038	JAVANGULA MANICHAND J
36	411517106040	JOTHIKA A
37	411517106041	KALAIVANI K
38	411517106042	KAMALEESHWAR M
39	411517106043	KAMESH M
40	411517106044	KAMESH R
41	411517106045	KANICKAI RAJ J
42	411517106046	KARTHIC B
43	411517106047	KARTHIKEYAN A
44	411517106048	KATHIRAVAN G
45	411517106049	KAVIN J
46	411517106051	KEERTHANA L

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
III/ECE

47	411517106052	KEERTHI RAJAN A.S
48	411517106053	SASIDHAR NAIDU K
49	411517106054	KISHORE KUMAR M
50	411517106056	KRISHNARAJ V
51	411517106057	KUMARAN J
52	411517106058	LAKSHMI AISHWARYA R.
53	411517106059	LEENA S
54	411517106060	LOGESH S
55	411517106061	LOGESHWARI G.
56	411517106062	LOKESHKUMAR M.
57	411517106063	LOKESH KUMAR G
58	411517106064	LOKESHWARAN P
59	411517106065	MADHAN RAJ P.
60	411517106066	MANIBHARATHI S.
61	411517106067	MANISHA V.
62	411517106068	MARY K
63	411517106069	MOHAMMED SHAARIF K
64	411517106070	MOHANA N
65	411517106071	MONISHA M.
66	411517106072	KRANTHI KUMAR N
67	411517106076	KIRAN KUMAR REDDY O.
68	411517106077	PADMASHREE M.
69	411517106079	PRADEEP K.V
70	411517106081	PRAVEEN S

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
III/ECE

71	411517106082	RAGAVENDER S
72	411517106083	RAJA SHREE B
73	411517106084	RAKINI C.
74	411517106085	RAMAPRAKASH G.
75	411517106086	RAVEEN KUMAR M
76	411517106087	RUPA SRI V M
77	411517106088	SAI SRUTHI K
78	411517106089	SANDHIYA V
79	411517106090	SANJAY S
80	411517106091	SANTHANA KARTHICK D
81	411517106092	SELVA DHARSHINI V
82	411517106093	SELVA SOORIYA S
83	411517106094	SHANTHI V.
84	411517106095	SHARON GRACE BETSY G
85	411517106096	SHESHI KUMAR G.R
86	411517106097	SHIVAHARI P
87	411517106098	SIVA KUMAR S
88	411517106099	SIVA SARAVANAN K
89	411517106101	SRIRAM E.
90	411517106102	SUBALAKSHMI H
91	411517106104	UMA MAGHESWARI K
92	411517106105	YAMINI CHOWDARY U
93	411517106106	VALLARASU R
94	411517106107	VASANTH KUMAR.K

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
III/ECE

95	411517106108	VIGNESH A
96	411517106109	VIGNESH P
97	411517106110	VIJAYALAKSHMI G
98	411517106111	VIJITHRA V
99	411517106112	VINODHINI S
100	411517106113	VUNNAM SUCHARITHA V.
101	411517106114	YAKESH C
102	411517106115	YAZHIR ARAFATH A
103	411517106301	SUDALAI MUTHU
104	411517106302	SURYA
105	411517106303	VIGNESH . L

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ECE

Attendance Sheet for Industrial Based Embedded system ECW011

S.NO	REG. NO.	NAME OF THE STUDENT	8.10.19	9.10.19	10.10.19	11.10.19	14.10.19	15.10.19
1	411518106001	Abinaya S						
2	411518106002	Ajaykumar D						
3	411518106004	Angelo Jude Dumenil						
4	411518106007	Ashwini M						
5	411518106008	Aslam Badus Ha I						
6	411518106009	Barathwaj K R						
7	411518106011	Bevina M						
8	411518106012	Buddannagari Madhu						
9	411518106014	Dinesh S						
10	411518106015	Evanglin S						
11	411518106017	Genji Mukhesh Reddy						
12	411518106018	Gokul Krishnan M						
13	411518106019	Habibunnisha						
14	411518106020	Inthiran R						
15	411518106021	Ishrath Jabeen S						
16	411518106023	Jayakamala Narayanan N						
17	411518106024	Jeeva B M						
18	411518106026	Kalaivani Chakkarapani						
19	411518106028	Kavitha R						
20	411518106030	Kirubakaran S						
21	411518106031	Kokilavani P						
22	411518106036	Mallavarapu Shreya						
23	411518106037	Manoj Kumar N						
24	411518106038	Midhuna Varshini J						
25	411518106039	Mohankumar P						
26	411518106046	Nidhi Selvan J C						
27	411518106048	Prasanth R						
28	411518106049	Praveena R						

29	411518106050	Prawin Chandar B							
30	411518106054	Ramesh Aravind T							
31	411518106055	Rayapati Sowmya Suhanna							
32	411518106056	Rinoza K							
33	411518106059	Sanjai Sairam S K							
34	411518106064	Sundar R							
35	411518106065	Surya D							
36	411518106067	Suvasna M							
37	411518106069	Vaka Harshitha							
38	411518106072	Yaser Abdul Raheem K S							
39	411518106003	Akash Priyadharsan B							
40	411518106005	Anugu Pavan							
41	411518106006	Arivukarasu T							
42	411518106010	Bestha Bhavana Ravikumar							
43	411518106013	Chandru M							
44	411518106016	Ganesh A							
45	411518106022	Janani Priya D							
46	411518106025	Jothika V							
47	411518106027	Kamalesh J							
48	411518106029	Kiran Raj A							
49	411518106032	Kumaran K							
50	411518106033	Lagadapati Badrinath							
51	411518106035	Mahesh Kumar V							
52	411518106040	Monish B							
53	411518106041	Mukesh S							
54	411518106042	Mukunthan S							
55	411518106043	Nagasuba G							
56	411518106044	Naveen S							
57	411518106045	Neelam Pranay Sa							
58	411518106047	Nithish Kumar C							
59	411518106051	Prem Kumar M D							
60	411518106052	Ragapriya M							
61	411518106057	Rithickanand N							

62	411518106058	Sameera Banu B						
63	411518106060	Sanjay Ramesh R						
64	411518106062	Sriram I						
65	411518106063	Sujai Mathew B						
66	411518106066	Surya G						
67	411518106068	Thiravidar Selvam G						
68	411518106070	Venkatesh R						
69	411518106071	Yakesh G						
70	411518106301	Arun Kumar.E						
71	411518106302	Logesh.S						
72	411518106303	Zainul Khan.A						
PRESENT			72	72	72	72	72	72
ABSENT			—	—	—	—	—	—

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PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
Attendance Sheet for Industrial Based Embedded system ECW011

S.NO	REG. NO.	NAME OF THE STUDENT	8.10.19	9.10.19	10.10.19	11.10.19	14.10.19	15.10.19
1	411517106001	Aakash C.S						
2	411517106002	Aakash Raj S						
3	411517106003	Abdulla A						
4	411517106004	Agnisha V.						
5	411517106005	Aileen Mercybell A						
6	411517106006	Akash S						
7	411517106008	Annapureddy Dhana Lakshmi A						
8	411517106009	Arasavalli Teja Durga Sai S.						
9	411517106010	Arun K.S.						
10	411517106011	Aruneshwaran M						
11	411517106012	Ashika K						
12	411517106013	Balaji N						
13	411517106014	Vamsi Krishna B.						
14	411517106015	Bharath Balaji R						
15	411517106016	Boya Venkata Rakesh B.						
16	411517106018	Chintala.Supriya S.						
17	411517106019	Chukka Monica B.						
18	411517106020	Deepika M.						
19	411517106021	Delli Ganesh G						
20	411517106022	Dinesh V						
21	411517106023	Divya Priya R.						
22	411517106024	Euro Sri M.						
23	411517106025	Gadikota Deekshitha G.						
24	411517106026	Gadi Mano Varshith G.						
25	411517106027	Ganesh Karan K						
26	411517106028	Gayathri K						
27	411517106029	Gnanaprasath L						
28	411517106030	Gupendhiran S						

29	411517106031	Gurrala Hari R.						
30	411517106032	Gurudharsan B						
31	411517106033	Hariharan K						
32	411517106034	Haripriya B.						
33	411517106035	Ilango M						
34	411517106036	Jaiganesh S			AB			
35	411517106038	Javangula Manichand J	AB				AB	
36	411517106040	Jothika A						
37	411517106041	Kalaivani K						
38	411517106042	Kamaleeshwar M				AB		
39	411517106043	Kamesh M					AB	
40	411517106044	Kamesh R				AB		
41	411517106045	Kanickai Raj J						
42	411517106046	Karthic B						
43	411517106047	Karthikeyan A						
44	411517106048	Kathiravan G			AB			
45	411517106049	Kavin J						
46	411517106051	Keerthana L						
47	411517106052	Keerthi Rajan A.S						
48	411517106053	Sasidhar Naidu K						
49	411517106054	Kishore Kumar M						
50	411517106056	Krishnaraj V						
51	411517106057	Kumaran J						
52	411517106058	Lakshmi Aishwarya R.	AB		AB			
53	411517106059	Leena S						
54	411517106060	Logesh S						
55	411517106061	Logeshwari G.						
56	411517106062	Lokeshkumar M.						
57	411517106063	Lokesh Kumar G	AB					
58	411517106064	Lokeshwaran P						
59	411517106065	Madhan Raj P.						
60	411517106066	Manibharathi S.						
61	411517106067	Manisha V.						

62	411517106068	Mary K				AB	AB	
63	411517106069	Mohammed Shaarif K						
64	411517106070	Mohana N						
65	411517106071	Monisha M.						
66	411517106072	Kranthi Kumar N						
67	411517106076	Kiran Kumar Reddy O.						
68	411517106077	Padmashree M.						
69	411517106079	Pradeep K.V						
70	411517106081	Praveen S						
71	411517106082	Ragavender S						
72	411517106083	Raja Shree B						
73	411517106084	Rakini C.						
74	411517106085	Ramaprakash G.						
75	411517106086	Raveen Kumar M						
76	411517106087	Rupa Sri V M						
77	411517106088	Sai Sruthi K						
78	411517106089	Sandhiya V						
79	411517106090	Sanjay S						
80	411517106091	Santhana Karthick D						
81	411517106092	Selva Dharshini V						
82	411517106093	Selva Sooriya S						
83	411517106094	Shanthi V.						
84	411517106095	Sharon Grace Betsy G						
85	411517106096	Sheshi Kumar G.R						
86	411517106097	Shivahari P						
87	411517106098	Siva Kumar S						
88	411517106099	Siva Saravanan K						
89	411517106101	Sriram E.						
90	411517106102	Subalakshmi H						
91	411517106104	Uma Magheswari K						
92	411517106105	Yamini Chowdary U						
93	411517106106	Vallarasu R						
94	411517106107	Vasanth kumar.K						

95	411517106108	Vignesh A						
96	411517106109	Vignesh P						
97	411517106110	Vijayalakshmi G						
98	411517106111	Vijithra V						
99	411517106112	Vinodhini S						
100	411517106113	Vunnam Sucharitha V.						
101	411517106114	Yakesh C						
102	411517106115	Yazhir Arafath A						
103	411517106301	Sudalai Muthu						
104	411517106302	Surya						
105	411517106303	Vignesh . L						
PRESENT			102	105	102	102	102	105
ABSENT			03	—	03	03	03	—

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I:EMBEDDED C

Introduction of EMBEDDED C-Inter working of Assembly & Embedded C

Programming & Interfacing using EMBEDDED C-Interfacing of LCD-

Interfacing of Switches & Keyboard Matrix

MODULE II: MICROCONTROLLER TOOLS

Interrupt driven Programming-Computer Languages-Embedded Development Tools-Designing with Microcontrollers-Advanced Embedded System PIC-Classification of Microprocessor & Microcontroller

MODULE III: INTERFACING ANG PROGRAMMING

Brief Introduction to Computer Architecture-Introduction to PIC18 Compiler/ Simulator-Protocol Interfacing-Introduction to CCP and ECCP programming-Embedded Systems with Microcontroller (AVR)

MODULE IV: REAL WORLD INTERFACING

Embedded Systems (ARM)-Embedded development tools-Real world interfacing – MOTORS-Introduction to PIC18 Compiler-ASP Embedded System Generic Handlers-Block Description of PIC 18F458

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT ON INDUSTRIAL BASED EMBEDDED SYSTEM

1. Which of the following is not an essential component of an embedded system?

a) Microprocessor

b) RAM

c) Keyboard

d) Input/output device

22/25

2. Which of the following is true about interrupt latency in an embedded system?

a) It is the time between the occurrence of an interrupt and the start of its processing.

b) It is the time between the start of interrupt processing and the completion of interrupt processing.

c) It is the time taken by the system to acknowledge an interrupt.

d) It is the time taken by the system to return from an interrupt.

3. Which of the following is a real-time operating system (RTOS)?

a) Windows

b) Linux

c) VxWorks

d) MacOS

4. Which of the following is not a type of microcontroller architecture?

a) Harvard

b) Von Neumann

c) ARM

d) RISC

5. Which of the following is true about firmware in an embedded system?

a) It is software that is stored in read-only memory (ROM).

b) It is software that is stored in random access memory (RAM).

c) It is software that is stored on a hard disk.

d) It is software that is executed by the microcontroller.

6. Which of the following is an example of an analog-to-digital converter (ADC)?

a) SPI

b) UART

c) I2C

d) SAR

7. Which of the following is an example of a digital-to-analog converter (DAC)?

a) SPI

b) UART

c) I2C

d) R-2R ladder

8. Which of the following is true about watchdog timers in an embedded system?

a) They are used to monitor the system clock.

b) They are used to monitor the power supply.

c) They are used to monitor the system state.

d) They are used to monitor the temperature.

9. Which of the following is true about power management in an embedded system?

a) It is not necessary in battery-powered systems.

b) It is typically implemented using hardware and software techniques.

c) It is not important for systems that operate continuously.

d) It is only important for systems with high power requirements.

10. Which of the following is true about real-time constraints in an embedded system?

a) They are not important for non-critical applications.

b) They can be relaxed if necessary to improve system performance.

c) They are typically specified in terms of response time and deadline.

d) They are only important for systems with simple control logic.

11. Which of the following is a technique for reducing power consumption in an embedded system?

a) Increasing the clock frequency

b) Increasing the supply voltage

c) Using hardware accelerators

d) Using high-power peripherals

12. Which of the following is true about system-on-chip (SoC) design?

a) It involves integrating multiple chips onto a single circuit board.

b) It involves integrating multiple components onto a single chip.

c) It is only used in high-end embedded systems.

d) It is not compatible with real-time operating systems.

13. Which of the following is true about system testing in an embedded system?

a) It is not necessary if the software is thoroughly tested.

b) It is typically performed using simulation tools.

c) It is only important for safety-critical systems.

d) It involves testing the hardware, software, and system-level functionality.

14. Which of the following is true about interrupts in an embedded system?

a) They are always asynchronous.
b) They are always synchronous.
c) They can be either synchronous or asynchronous.
d) They are not used in real-time systems.

15. Which of the following is true about the CAN bus?

a) It is a hardware-based communication protocol.
b) It is only used in low-speed communication applications.
c) It is a master-slave communication protocol.
d) It is a peer-to-peer communication protocol.

16. Which of the following is true about SPI communication?

a) It is a half-duplex communication protocol.
b) It is a full-duplex communication protocol.
c) It is a synchronous communication protocol.
d) It is a peer-to-peer communication protocol.

17. Which of the following is true about I2C communication?

a) It is a half-duplex communication protocol.
b) It is a full-duplex communication protocol.
c) It is a synchronous communication protocol.
d) It is a peer-to-peer communication protocol.

20. Which of the following is true about UART communication?

a) It is a half-duplex communication protocol.
b) It is a full-duplex communication protocol.

c) It is a synchronous communication protocol.

d) It is a peer-to-peer communication protocol.

21. Which of the following is true about DMA in an embedded system?

a) It is not used in real-time systems.

b) It stands for "Direct Memory Access."

c) It is used for communicating with peripherals.

d) It is a type of interrupt.

22. Which of the following is true about bootloaders in an embedded system?

a) They are used to load the operating system.

b) They are used to load the application software.

c) They are stored in volatile memory.

d) They are not important for system security.

23. Which of the following is true about real-time operating systems (RTOS) in an embedded system?

a) They are only used in large-scale systems.

b) They are not important for system performance.

c) They provide deterministic scheduling of tasks.

d) They provide non-deterministic scheduling of tasks.

24. Which of the following is true about the memory hierarchy in an embedded system?

a) The CPU cache is the largest and slowest level of memory.

b) The main memory is the smallest and fastest level of memory.

c) The secondary storage is the smallest and slowest level of memory.

d) The memory hierarchy is used to balance speed and capacity.

25. Which of the following is true about digital signal processing (DSP) in an embedded system?

a) It is only used in audio and video processing.

b) It can be used for a variety of signal processing applications.

c) It requires an analog signal as input.

d) It is slower than analog signal processing.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2019-2020

Ref: PERIIT /ECE/Add-On Course/2019-20/02 **Date: 13.12.2019**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "PCB DESIGNING" for the Academic Year 2019 – 2020 for IV year ECE students.

CODE:ECW012

S.No.	Year	Scheduled Date	Session 1	Session 2
1	IV	18.12.2019 -23.12.2019	10.00AM to 11.45AM	12.30PM to 3.30PM

13/12/19

Co-ordinator

Head of the Department

Head of the Department
ELECTRONICS AND COMMUNICATION ENGINEERING
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Subject Code: ECW012 **Year/Semester:IV/VII**

Subject Name: PCB Designing **Session: FN & AN**

S.No	DATE	HOURS	TOPIC
1	18.12.2019	3rd-8th	What is PCB - Difference between PWB and PCB -Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer) -PCB Materials
2	19.12.2019	3rd-8th	Brief History of EDA -Latest Trends in Market -How it helps and Why it requires -Different EDA tools - Introduction to SPICE and PSPICE Environment
3	20.12.2019	3rd-8th	Active Components- Diode - Transistor - MOSFET - LED - SCR -Integrated Circuits (ICs) .Passive Components - Resistor -Capacitor -Inductor - Transformer - Speaker/Buzzer.Introduction to PCB Design using OrCAD
4	21.12.2019	3rd-8th	PCB Designing Flow Chart – Schematic Entry -Net listing - PCB Layout Designing -Prototype Designing - Design Rule Check(DRC)- Design For Manufacturing(DFM) -Making - Printing Etching- Drilling
5	23.12.2019	3rd-8th	Assembly of components.Electrical Layers -Top Layer - Mid Layer -Bottom Layer Mechanical Layers -Board Outlines and Cutouts -Drill Details -Documentation Layers Components Outlines -Reference Designation - Text -PCB and Hardware Testing

Coordinator

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PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2019-2020
IV/ECE Workshop on PCB Design-ECW012

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6	411516106013	DANIEL ANCING E
7	411516106015	DEVANAND M.
8	411516106022	IYYANARAPPAN M
9	411516106023	JACKLIN EMILDA S.
10	411516106026	JAYASHREE S.
11	411516106027	KEERTHANA C.K
12	411516106028	KESHAV KUMAR J.
13	411516106029	KIRTHIKA S.
14	411516106032	LOKESHWARAN B.
15	411516106033	MAHENDRA A
16	411516106034	MAHESH KUMAR G
17	411516106035	MALATHY T.
18	411516106037	MANJU BHARKAVI M
19	411516106038	MARIA THEENA L.T
20	411516106041	NIVAS A.T
21	411516106042	NIVETHA J.
22	411516106043	NIVETHA M

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ACADEMIC YEAR 2019-2020
IV/ECE

23	411516106044	PAVITHRA R
24	411516106048	PRETHI SAI L.
25	411516106049	RADHIKA G
26	411516106050	RAGINI J
27	411516106051	RAJESH S
28	411516106052	RAMYA S
29	411516106053	RANJITH SREEKAR A.G
30	411516106054	RIYAZ AHAMED A
31	411516106055	SANDHYA M
32	411516106056	SANTHOSH M
33	411516106057	SHIVALI ANGRAL
34	411516106058	SOWMYA S.
35	411516106062	UMA SHANKAR R
36	411516106064	VIGNESH N.
37	411516106301	BHAVANA T
38	411516106302	KANCHANA A
39	411516106303	KOYALAMUDI SAI KRISHNA
40	411516106307	YUVANSHANKAR P.D
41	411516106701	ACHANTA TRINADH KUMAR A
42	411516106001	AKASH B.
43	411516106008	ARUNACHALAM K
44	411516106009	ASIF ALI A
45	411516106011	BALAJI K

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ACADEMIC YEAR 2019-2020
IV/ECE

46	411516106014	DEEN KUMARAN V
47	411516106016	DILIP KUMAR T.
48	411516106018	GOWRI S.
49	411516106019	HARIHARAN C
50	411516106021	HENRY SOLOMON J
51	411516106024	JAGAN L.
52	411516106025	JAI PRAKASH V.
53	411516106030	KIRUBHAKARAN M.
54	411516106040	NAVEENKUMAR V
55	411516106045	POORNIMA PRIYADHARSHINI J
56	411516106046	PRAVEEN U.
57	411516106047	PRAVEEN.R.S.NAIR R.S
58	411516106059	SUBHASH S
59	411516106060	SUDHAKARAN G.
60	411516106061	SURYA PRAKASH K
61	411516106063	VAIRAMUTHU K
62	411516106065	VIJAYA SUNDARAM A.G
63	411516106066	VIMAL KUMAR R
64	411516106067	VIMAL KUMAR S
65	411516106069	VISHALI K.
66	411516106070	YOGESHWAR S
67	411516106304	SASI KUMAR M

PERI INSTITUTE OF TECHNOLOGY
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Attendance Sheet for PCB Designing ECW012

S.NO	REG. NO.	NAME OF THE STUDENT	18.12.19	19.12.19	20.12.19	21.12.19	23.12.19
1	411516106003	Annie Muthabaranam A					
2	411516106005	Arshad Ahmed M D					
3	411516106006	Arul Kumar S					
4	411516106010	Asraf A.					
5	411516106012	Bhuvanaa C.					
6	411516106013	Daniel Ancing E					
7	411516106015	Devanand M.					
8	411516106022	Iyyanarappan M					
9	411516106023	Jacklin Emilda S.					
10	411516106026	Jayashree S.					
11	411516106027	Keerthana C.K					
12	411516106028	Keshav Kumar J.					
13	411516106029	Kirthika S.					
14	411516106032	Lokeshwaran B.					
15	411516106033	Mahendra A					
16	411516106034	Mahesh Kumar G					
17	411516106035	Malathy T.					
18	411516106037	Manju Bharkavi M					
19	411516106038	Maria Theena L.T					
20	411516106041	Nivas A.T					
21	411516106042	Nivetha J.					
22	411516106043	Nivetha M					
23	411516106044	Pavithra R					
24	411516106048	Prethi Sai L.					
25	411516106049	Radhika G					
26	411516106050	Ragini J					
27	411516106051	Rajesh S					
28	411516106052	Ramya S					

29	411516106053	Ranjith Sreekar A.G					
30	411516106054	Riyaz Ahamed A					
31	411516106055	Sandhya M					
32	411516106056	Santhosh M					
33	411516106057	Shivali Angral					
34	411516106058	Sowmya S.					
35	411516106062	Uma Shankar R					
36	411516106064	Vignesh N.					
37	411516106301	Bhavana T					
38	411516106302	Kanchana A					
39	411516106303	Koyalamudi Sai Krishna					
40	411516106307	Yuvanshankar P.D					
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53	411516106030	Kirubhakaran M.					
54	411516106040	Naveenkumar V					
55	411516106045	Poornima Priyadharshini J					
56	411516106046	Praveen U.					
57	411516106047	Praveen.R.S.Nair R.S					
58	411516106059	Subhash S					
59	411516106060	Sudhakaran G.					
60	411516106061	Surya Prakash K					
61	411516106063	Vairamuthu k					

62	411516106065	Vijaya Sundaram A.G					
63	411516106066	Vimal Kumar R					
64	411516106067	Vimal Kumar S					
65	411516106069	Vishali K.					
66	411516106070	Yogeshwar S					
67	411516106304	Sasi Kumar M					
PRESENT			60	61	63	65	61
ABSENT			01	06	04	02	06

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

MODULE I:INTRODUCTION TO PCB DESIGNING CONCEPTS

What is PCB - Difference between PWB and PCB -Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer) -PCB Materials

MODULE II: COMPONENT INTRODUCTION AND THEIR CATEGORIES

Brief History of EDA -Latest Trends in Market -How it helps and Why it requires

Different EDA tools - Introduction to SPICE and PSPICE Environment

MODULE III: INTRODUCTION TO DEVELOPMENT TOOLS

Active Components- Diode - Transistor - MOSFET - LED - SCR -Integrated Circuits (ICs)

Passive Components -Resistor -Capacitor -Inductor - Transformer - Speaker/Buzzer

Introduction to PCB Design using OrCAD

MODULE IV: DETAILED DESCRIPTION AND PRACTICAL OF PCB DESIGNING

PCB Designing Flow Chart – Schematic Entry -Net listing -PCB Layout Designing -Prototype Designing - Design Rule Check(DRC)- Design For Manufacturing(DFM) -Making -Printing Etching- Drilling -Assembly of components.Electrical Layers -Top Layer - Mid Layer -Bottom Layer Mechanical Layers -Board Outlines and Cutouts -Drill Details -Documentation Layers Components Outlines -Reference Designation - Text -PCB and Hardware Testing

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT ON PCB DESIGNING

1. **Which phenomenon is not reduced by the circuit paths of lowest impedances especially provided by power and return planes for shielding purposes?**

a) Radiation

b) Convection

c) Noise

d) Crosstalk

2. **High current circuits are purposely located or placed near the edge of PCB in accordance to the supply lines for _____**

a) Removal of heat

b) Isolation of stray current

c) Reduction of path length

d) All of the above

3. **Which among the below stated soldering methods is also renowned as 'High Frequency Resistance Soldering'?**

a) Iron Soldering

b) Furnace Soldering

c) Torch Soldering

d) Electrical Soldering

4. **Which among the below mentioned approaches belongs to the category of In-circuit Testing?**

a) Impedance Testing

b) Component Testing

c) Apply Signal and check output

d) All of the above

5. **Which type of solderability testing is carried out for the generation of solder sample due to immersion of wire or sheet metal specimen in a bath of molten solder?**

a) Solder Bath Testing

b) Meniscus Rise Testing

c) Solder Iron Testing

d) None of the above

6. **What is/are the necessity/ies to provide guarding to precision differential amplifiers?**

a) To increase leakage resistance

b) To reduce capacitance between signal conductors & ground

c) Both a and b

d) None of the above

7. **Which among the below mentioned assertions is not a way of cross-talk reduction while designing digital PCBs?**

a) Decrease in the distance between conductors

b) Shielding of clock lines with guard strips

c) Reduction in the loop area of circuits

d) Avoid running of parallel traces for longer distances especially for asynchronous signals

8. **Which among the below mentioned packages does not belong to the category of 'Small Outline Package'?**

a) SO

b) SOP

c) SOT

d) SON

9. **Which among the below specified assertions is not a grounding consideration associated with ADC as well as DAC?**

a) Analog side to analog ground

b) Digital side to digital ground

c) Use of separate power supply and connection of their ground leads to single point reference

d) Reduction of inductive loop area between power and return traces

10. Which among the below stated devices/equipments are preferred for elimination of ground and supply line noise especially in TTL/CMOS / ECL PCB designing?

a) Coupling capacitor

b) Decoupling capacitor

c) Snubber circuits

d) All of the above

11. **Which among the below specified condition is precise in the crosstalk verification mechanism using logic flow in opposite direction with the limit of avoiding dangerous interference in digital PCB designing?**

a) Zeven > Zodd

b) Zodd ≥ 0.5 Zeven

c) Zodd ≥ 0.8 Zeven

d) Zodd = Zeven

12. **Which terminology of PCB represents a thin photo-sensitive polymer by supporting photographic pattern of single traces or IC pads for etching?**

a) Prepreg

b) Etching

c) Photo-resist

d) Solder mask

13. **Which problems are about to occur if PCB is not designed properly in a confined manner for digital circuits?**

A. Diffraction

B. Refraction

C. Ground & Supply-line Noise

D. Electromagnetic Interference

a) A & B

b) B & C

c) C & D

d) A, B, C, D

14. **Which among the following assists in obtaining the desired value of wave impedance in reflection phase while designing digital PCBs?**

A. Width of signal lines

B. Distance between signal line and ground line

C. Signal Delays

D. Double Pulsing

a) A & B

b) B & C

c) C & D

d) A, B, C, D

15. **What should be the resistance of 0.6 mm wide conductor with 15 cm length and 25 µm thickness of standard copper foil? (Assume ρ = 1.7241 x 10-6(at 20° C)**

a) 118.2 mΩ

b) 138.2 mΩ

c) 172.4 mΩ

d) 192.4 mΩ

16. **The actual cost of PCB can be evaluated on the basis of _____**

a) PCB size & material

b) Number of layers

c) Vias on PCB

d) All of the above

17. **Which factors contribute to the occurrence of mechanical stress?**

a) Resonance

b) Cracked Solder Joints

c) Both a and b

d) None of the above

18. **Which type of PCB requires minimum soldering on component side in order to avoid replacement oriented difficulties?**

a) Single-sided PCB

b) Double-sided PCB

c) Both a and b

d) None of the above

19. **What effects can be observed if the separate power and ground planes are provided with large conducting surfaces for better decoupling in PCB layouts?**

a) Increase in self-inductance

b) Reduction in self-inductance

c) Stability in self-inductance

d) None of the above

20. The biggest factor when it comes to impedance is

a) Clock speed of the board crystal

b) The integrity of the signal from the output buffer of the sending component

c) The voltage level

d) The physical aspects of the board

21. The declaration of Vias-In-Pads is determined in the

a) Assembly Notes

b) Fabrication Notes

c) Fabrication Files

d) Via stack up

22. The grid used in a PCB layout tool should be

a) In metric (mm)

b) In imperial (mils)

c) Both A and B interchangeably

d) Either A or B

23. The solder mask has an impact on the trace impedance.

a) True Statement

b) False Statement

24. The solder paste files are generally produced

a) In the assembly file

b) In the fabrication files

c) Manually drawn

d) As part of the bill of materials

25. The use of 3D component models in the PCB layout can assist with

a) Electrical clearance
b) Component clearance
c) All of the above
d) None of the above

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

Ref: PERIIT/EEE/CC/2019-20/004 **Date: 14.01.2020**

CIRCULAR

The Electrical and Electronics Engineering Department of PERI IT has planned to conduct Add-on course titled "Workshop on Embedded System Design and Implementation" for II, III and IV year EEE students.

CODE:EW010

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II/III/IV	20-01-2020 to 24-01-2020	8.30 AM to 11.45AM	12.30 PM to 03.30 PM

Coordinator

14/1/2020

HoD/EEE

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2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

TIME TABLE

Course Code : EW010

Course Name: Workshop on Embedded System Design and Implementation

S.No	DATE	HOURS	TOPIC
1	20.01.2020	1st-6th	Overview of embedded systems and their applications, Introduction to microcontrollers and microprocessors, Basics of embedded software development: programming languages and development tools
2	21.01.2020	1st-6th	Understanding embedded systems architecture, Overview of CPU architectures and memory hierarchies, Exploring microcontroller architecture and development tools
3	22.01.2020	1st-6th	Introduction to sensors and actuators used in embedded systems, Interface protocols: UART, SPI, I2C, Interfacing sensors and actuators with microcontrollers
4	23.01.2020	1st-6th	Communication protocols for embedded systems: UART, SPI, I2C, CAN, Wireless communication standards: Bluetooth, Wi-Fi, Serial communication and wireless communication exercises
5	24.01.2020	1st-6th	Introduction to real-time operating systems (RTOS), Task scheduling, synchronization, and communication in RTOS

Coordinator

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

II - EEE

Workshop on Embedded system design and implementation - EW010

S. No	Register Number	Student Name
1.	411518105002	Ahalya M
2.	411518105003	Askar Ali T
3.	411518105004	Bharathi M
4.	411518105005	Dasaradhan S
5.	411518105006	Dharanimaran A
6.	411518105007	Jeeva J
7.	411518105008	Jeevagan S
8.	411518105009	Jeevitha V
9.	411518105010	Magesh B K
10.	411518105011	Mohanasri L
11.	411518105012	Mukesh E
12.	411518105013	Rajkumar M
13.	411518105014	Ritu waliya
14.	411518105015	Sanjay V
15.	411518105016	Sathish Balaji S
16.	411518105017	Subashini D
17.	411518105019	Thanigaimalai J S
18.	411518105020	Vignesh S
19.	411518105301	Jayakandan S
20.	411518105701	Rojan Steavewak A

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

III - EEE

EW010 Workshop on Embedded system design and implementation

S. No	Register Number	Student Name
1.	411517105002	Annem Chaitanya Kumar Reddy
2.	411517105003	Aravind G
3.	411517105004	Arivarasi A
4.	411517105005	Arun N
5.	411517105006	Chandru S J
6.	411517105007	Deepakkumar J
7.	411517105008	Dinesh Kumar B
8.	411517105009	Donald Santhuru S
9.	411517105010	Eshwar M
10.	411517105011	Giridharan K
11.	411517105012	Goli Sai Supriya
12.	411517105013	Ilavaruna Karthik P
13.	411517105014	Jayasri A
14.	411517105015	Jeevitha S
15.	411517105016	Karan Raj S
16.	411517105017	Keerthivasan C
17.	411517105018	Manoj M
18.	411517105019	Mohamed Rizwan R
19.	411517105020	Monisha M
20.	411517105021	Mukesh S
21.	411517105022	Naveen Kumar M
22.	411517105023	Poomani R
23.	411517105024	Rahman H
24.	411517105025	Rajesh S
25.	411517105026	Rishika P
26.	411517105028	Rukmani V
27.	411517105029	Santhosh Kumar S
28.	411517105030	Sham Prabu A
29.	411517105031	Sharon Devakirubai B
30.	411517105032	Sugan C
31.	411517105033	Swetha R
32.	411517105034	Swetha S
33.	411517105036	Vani D
34.	411517105037	Vigneshwaran R
35.	411517105301	Jagan
36.	411517105302	Premraj
37.	411517105303	Vivek
38.	411517105304	Yeshwanth

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

IV – EEE

EW010 Workshop on Embedded system design and implementation

S. No	Register Number	Student Name
1.	411516105001	Aarthy S
2.	411516105002	Balasubramani V
3.	411516105003	Caleb W
4.	411516105004	Dhevadharshini V
5.	411516105005	Durai Murugan A
6.	411516105006	Guru Prasad R
7.	411516105007	Harikesh B
8.	411516105008	Harish
9.	411516105011	Sam C
10.	411516105012	Sameeran B
11.	411516105013	Vasanth V
12.	411516105014	Vishali R
13.	411516105301	Jagadesh N
14.	411516105302	Mahadeshwar S
15.	411516105303	Srinivasalu G K

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

Attendance

Course Code : EW010

Course Name: Workshop on Embedded System Design and Implementation

S. No	Register Number	Name of the Student	Date				
			20.01.2020	21.01.2020	22.01.2020	23.01.2020	24.01.2020
			II - EEE				
1.	411518105002	Ahalya M					
2.	411518105003	Askar Ali T					
3.	411518105004	Bharathi M					
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5.	411518105006	Dharanimaran A					
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14.	411518105015	Sanjay V					
15.	411518105016	Sathish Balaji S					
16.	411518105017	Subashini D					

17.	411518105019	Thanigaimalai J S					
18.	411518105020	Vignesh S					
19.	411518105301	Jayakandan S					
20.	411518105701	Rojan Steavewak A					
		III - EEE					
1.	411517105002	Annem Chaitanya Kumar Reddy					
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36.	411517105302	Premraj					
37.	411517105303	Vivek					
38.	411517105304	Yeshwanth					
		IV - EEE					
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14.	411516105302	Mahadeshwar S					
15.	411516105303	Srinivasalu G K					

Coordinator

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HOD/EEE

Rishika. P
III - EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2019-2020

Assessment

21/25

Course Code : EW010
Course Name: Workshop on Embedded system design and Implementation

1. Which memory storage is widely used in PCs and Embedded Systems?
   a) EEPROM
   b) Flash memory
   c) SRAM
   d) DRAM

2. How is the protection and security for an embedded system made?
   a) Security chips
   b) Memory disk security
   c) **IPR**
   d) OTP

3. Which of the following task swapping method is a better choice in the embedded systems design?
   a) Time slice
   b) RMS
   c) Cooperative multitasking
   d) Pre-emptive

4. Which type of memory is suitable for low volume production of embedded systems?
   a) Non-volatile
   b) RAM
   c) Volatile
   d) ROM

5. Which activity is concerned with identifying the task at the final embedded systems?
   a) Scheduling
   b) Task-level concurrency management
   c) High-level transformation
   d) Compilation

6. Which level simulates the algorithms that are used within the embedded systems?
   a) Algorithmic level
   b) Switch level
   c) Gate level
   d) Circuit level

7. How an embedded system communicate with the outside world?
   a) Memory
   b) Output
   c) **Peripherals**
   d) Input

8. Which of the following helps in reducing the energy consumption of the embedded system?
   a) Emulator
   b) Debugger
   c) Simulator
   d) Compilers

9. What is the purpose of memory refresh register of Z80?
   a) To control on-chip SRAM
   b) To control on-chip DRAM
   c) To clear cache
   d) To control ROM

10. What does MESI stand for?
    a) Modified exclusive system input
    b) Modifies embedded shared invalid
    c) Modified exclusive shared invalid
    d) Modified exclusive stale invalid

11. Which of the following is the pin efficient method of communicating between other devices?
    a) Memory port
    b) Peripheral port
    c) Parallel port
    d) Serial port

12. Which of the following is a traditional method for emulating the processor?
    a) CPU simulator
    b) SDS
    c) ICE
    d) Low-level language simulator

13. . Which of the following unit protects the memory?
    a) Memory management unit
    b) Peripheral unit
    c) Execution unit
    d) Bus interface unit

14. Identify the standard software components that can be reused in an embedded system design?
    a) Memory
    b) Application software
    c) Application manager
    d) Operating system

15. What does ICE stand for?
    a) In-circuit EPOM
    b) In-code emulation
    c) In-circuit emulation
    d) In-code EPROM

16. Who proposed the first power model?
    a) Tiwari
    b) Russell and Jacome
    c) Russell
    d) Jacome

17. Which of the following offers external chips for memory and peripheral interface circuits?
    a) Embedded system
    b) Peripheral system
    c) Microcontroller
    d) Microprocessor

18. What kind of socket does an external EPROM to plugged in for prototyping?
    a) Piggyback reset socket
    b) Multi-socket
    c) Piggyback
    d) Single socket

19. Which is the single device capable of providing prototyping support for a range of microcontroller?
    a) Umbrella device
    b) OTP
    c) RAM
    d) ROM

20. By which instruction does the switching of registers take place?
    a) Register instruction
    b) EXX instruction
    c) Instruction opcodes
    d) AXX instruction

21. Which of the architecture is more complex?
    a) MC68040
    b) MC68030
    c) SPARC
    d) 8086

22. Which of the following statements are true for von Neumann architecture?
    a) Separate bus between the program memory and data memory
    b) External bus for program memory and data memory
    c) External bus for data memory only
    d) Shared bus between the program memory and data memory

23. What is approximate data access time of SRAM? a) 2ns
    a) 10ns
    b) 2ns
    c) 60ns
    d) 4ns

24. Which of the following is the biggest challenge in the cache memory design?
    a) Coherency
    b) Memory access
    c) Size
    d) Delay

25. Which ports are used in the multi-master system to avoid errors?
    a) Bidirectional port
    b) Tridirectional port
    c) Multi directional port
    d) Unidirectional port

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2019-2020

Ref: PERIIT /MECH /Workshop/2019-20/01 **Date: 06.12.2019**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct workshop titled **"3D Printing"** for the Academic year of 2019 – 2020 for III and IV year Mechanical students.

CODE:MEW008

Sl. No.	Year	Scheduled Date	Session 1	Session 2
1	III & IV	07.01.2020 – 30.01.2020	8.30 AM to 11.45AM	12.30PM to3.30PM

6/12/19

Co-Ordinator

Head of the Department

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

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5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEW008 **Year/Semester: III, IV / VI, VIII**

Course Name: 3D Printing **Session: FN & AN**

Sl. No	DATE	HOURS	TOPICS
1	07.01.2020	1-6th hour	Overview of 3D Printing Technology, History and evolution, Comparison with traditional manufacturing, Types of 3D Printing Technologies, Fused Deposition Modeling (FDM), Stereolithography (SLA), Selective Laser Sintering (SLS), Other emerging technologies.
2	08.01.2020	1-6th hour	Introduction to CAD Software, Basics of CAD tools (e.g., Tinkercad, Fusion 360, Solid Works), Design Principles for 3D Printing, Designing for printability, Structural integrity and support, Creating and Modifying 3D Models.
3	24.01.2020	1-6th hour	Overview of 3D Printing Materials, Plastics (PLA, ABS, PETG), Resins, Metals, Composites, Material Properties and Applications, Strength, flexibility, durability, Choosing the right material for your project.
4	25.01.2020	1-6th hour	Creating 2D drawings from 3D models. Adding views: standard, section, detail, and auxiliary, Dimensioning and annotations.
5	30.01.2020	1-6th hour	Creating exploded views and Bill of Materials (BOM), Creating sheet metal parts: bends, flanges, and flat patterns, Customizing Solid Works for improved productivity.

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
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PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2019-2020
Participants Name List
Course Name – 3D Printing

Course Code: MEW008 **Year/Semester: III / VI**

Sl. No	Registration Number	Student Name
1	411517114001	AADESH M
2	411517114002	ABDUL HAMEED A
3	411517114003	ABINESH C
4	411517114004	ABISHEK M (19-05-1999)
5	411517114005	ABISHEK M (16-06-2000)
6	411517114007	AJAY K
7	411517114008	AJAY R
8	411517114009	AJAY MUGIL V
9	411517114010	AJAY RAJ KUMAR G
10	411517114011	AJAY VISHWA V
11	411517114012	AJITHKUMAR S
12	411517114013	AKASH C
13	411517114014	AKASH S
14	411517114016	AKASH S
15	411517114017	ALFRED ROSHAN M
16	411517114018	ANANDHA KRISHNAN M
17	411517114019	ANISH R
18	411517114020	ANNAMALAI S
19	411517114021	ANTO PRINCE P
20	411517114022	APPANDAIRAJ S
21	411517114024	ARAVIND E B
22	411517114025	ARAVINDA KUMAR M
23	411517114026	ARAVIND KUMAR S
24	411517114027	ARUL ANANDHAM A S
25	411517114028	ARUN A S
26	411517114029	ARUNKUMAR S
27	411517114030	ARUN KUMAR V
28	411517114033	BALAJI S (18-06-99) S
29	411517114034	BALAJI S (25-10-1999) S
30	411517114035	BARATH A
31	411517114039	BHARATH P
32	411517114040	BUVANESHWAR A
33	411517114041	CAJETAN RAHUL S A
34	411517114043	CHERUKURU TEJA
35	411517114044	DHANUSH E
36	411517114045	DHARUN NIVAS S N
37	411517114046	DINESH A
38	411517114047	DINESH B
39	411517114049	DINESH KUMAR C
40	411517114050	DIVYACHANDAR S
41	411517114051	ELUMALAI A
42	411517114052	FERNANDES K
43	411517114054	GOKULARAJA S
44	411517114055	GOKUL HARSHA P
45	411517114056	GOPESHWARAN A
46	411517114057	GOWTHAM N
47	411517114058	GOWTHAM RAJA M
48	411517114059	HARIHARAN B
49	411517114060	HARISH V
50	411517114063	JAGADEESH G

Coordinator

HOD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2019-2020
Participants Name List
Course Name – 3D Printing

Course Code: MEW008 **Year/Semester: III / VI**

Sl. No	Registration Number	Student Name
51	411517114064	JAIADITHIYAN P
52	411517114067	KAMALESH E
53	411517114068	KARAN SINGH J
54	411517114070	KARTHICKKUMAR S
55	411517114071	KARTHIKEYAN R
56	411517114072	KARUPPASAMY A
57	411517114073	KAVIARASAN J
58	411517114075	LOGESHWARAN S
59	411517114076	LOKESH S
60	411517114077	MADAN JASWANT RAHUL S
61	411517114078	MADHAVAN M
62	411517114079	MANICKAVASAGAR S
63	411517114080	MANIKANDAN C
64	411517114083	MANISH KUMAR R
65	411517114084	MANOJ G
66	411517114085	MANOJ KUMAR A
67	411517114086	MANYAM R CHARAN
68	411517114087	MARTIN ROY S
69	411517114088	MESHACH NEERAJ P V
70	411517114089	MITHUNA SRINIKA A
71	411517114091	MOHAMMED ABUL FATHAH Z
72	411517114092	MOOVENDHAN V
73	411517114093	MOSES JEBARAJ A
74	411517114094	MUGESH KANNAN M
75	411517114095	MUHAMMAD YASAR ARAFATH S
76	411517114096	MUKESHKUMAR S
77	411517114097	MUTHURAMALINGAM V
78	411517114098	MUZAFAR AHAMED F
79	411517114099	NAKKEERAN N
80	411517114100	NATARAJAN G
81	411517114101	NEHRU T
82	411517114102	NITHISH KUMAR S
83	411517114103	PALANI S
84	411517114104	PALANIVEL RAJA K
85	411517114105	PALLAVARAJ V
86	411517114106	PARVENDHAN T
87	411517114107	PATURU VISHAL
88	411517114108	PAVITHRAN S
89	411517114110	PRABAKARAN J
90	411517114111	PRADEEP KUMAR K
91	411517114112	PRAVEEN KUMAR J
92	411517114113	PRAVEEN KUMAR M
93	411517114114	PRAVEEN KUMAR S (03-03-1999)
94	411517114115	PRAVEEN KUMAR S (08-04-2000)
95	411517114116	PRAVINKUMAR K
96	411517114117	PREM KUMAR J
97	411517114118	PRIYESH P
98	411517114119	RAGHU D
99	411517114120	RAGUL R
100	411517114122	RAMANAIAH C V

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2019-2020
Participants Name List
Course Name – 3D Printing

Course Code: MEW008 **Year/Semester: III / VI**

Sl. No	Registration Number	Student Name
101	411517114124	RAVI KUMARAN K
102	411517114125	REVANTH S
103	411517114126	RISIKESH K
104	411517114127	SABARI A
105	411517114128	SABBE SATHVIK
106	411517114129	SAI BHARGAV K
107	411517114130	SAKTHI ANAND R
108	411517114131	SAKTHIVEL E
109	411517114132	SANDHIYA T
110	411517114134	SATHISH J
111	411517114135	SATHISHKUMAR S
112	411517114136	SELVADURAI C
113	411517114137	SELVAM P
114	411517114138	SENTHAMILAN K
115	411517114140	SOBIKA S
116	411517114142	SONU PRASAAD H
117	411517114143	SREEVATHSAN B
118	411517114144	SRIDHAR S
119	411517114145	SUDHEER V
120	411517114146	SUGUMARAN K
121	411517114147	SULTHAN BASHA A
122	411517114148	SURESH KUMAR S
123	411517114149	SURIYA K
124	411517114150	SYED NAZEEF
125	411517114151	THENNARASU R

Sl. No	Registration Number	Student Name
126	411517114152	THIYAGU C
127	411517114154	THULACI RAMAN R
128	411517114155	UDATHA MYTHRESH SAI MAHADEV
129	411517114156	VASANTHA KUMAR S
130	411517114157	VIGNESH A
131	411517114158	VIGNESH G (21-12-1999)
132	411517114159	VIGNESH G (23-12-1999)
133	411517114160	VIGNESH P
134	411517114161	VIGNESH R
135	411517114162	VIGNESHWARAN K
136	411517114164	VIKRAM P
137	411517114165	VIKRAMAN T
138	411517114168	YASAR ARUN S
139	411517114169	YUVAPRASATH B
140	411517114170	YVESRON P
141	411517114301	ARUN KUMAR G
142	411517114302	GANGADHARAN K
143	411517114303	PRAVEEN KUMAR N
144	411517114304	ROGAN RAJ P
145	411517114305	VIGNESH S
146	411517114306	YOGESHWAR RAO S
147	411517114701	RAJA EBIN S

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2019-2020
Participants Name List
Course Name – 3D Printing

Course Code: MEW008 **Year/Semester: IV / VIII**

Sl. No	Registration Number	Student Name
1	411516114003	AJAY KRISHNAN H
2	411516114004	AJAY KUMAR P
3	411516114005	AJESH LIBIN A
4	411516114009	ANTROW BAVIN A
5	411516114010	ASHWINKUMAR J
6	411516114013	BALAMURUGAN P
7	411516114015	CHRISTOB MELBAN S
8	411516114016	DHACHENAMOORTHY V
9	411516114017	DHANAARASU D
10	411516114019	DINESH R
11	411516114020	DINESH KUMAR S
12	411516114022	GOPAL CHOWDARY F
13	411516114023	GOPINATH C
14	411516114024	GOWTHAM K
15	411516114026	GUNASEKAR M
16	411516114028	HARI GANESH R
17	411516114031	HEMNATH G
18	411516114035	JAYAPRATHAP E
19	411516114036	JEEVA PENIEL D
20	411516114037	JEEVESH S
21	411516114045	KARTHIKEYAN V G
22	411516114046	KEERTHIVASAN R
23	411516114047	KUMARAN B
24	411516114048	KURALARASAN V
25	411516114049	LAKSHMI NARAYANAN N
26	411516114055	MOHAMED ANWAR A
27	411516114057	MOHANBABU S
28	411516114058	MONESH RAJA R
29	411516114061	NAGANANTHAN S
30	411516114062	NAVEEN KUMAR G
31	411516114064	NIRMAL KUMAR R
32	411516114071	RAGHAVARDHAN V
33	411516114072	RAJ S
34	411516114073	RAMKUMAR K
35	411516114074	RAVICHANDRAN M
36	411516114078	RITHIK P S
37	411516114080	SAM PRINCE M
38	411516114081	SAMSON F
39	411516114082	SANTHOSHKUMAR T
40	411516114084	SATHISH B
41	411516114085	SATHIS KUMAR R
42	411516114087	SHAKTHIVEL R
43	411516114088	SIVAGNANAM A
44	411516114089	SUNDHAR M
45	411516114092	TAMIZH MANNAN S
46	411516114093	THARANEESWAR H
47	411516114095	VAIDYANATHAN V
48	411516114098	VIGNESH B
49	411516114102	VIJAYRAJAN V
50	411516114103	VINOTH S (29-04-1998)

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2019-2020
Participants Name List
Course Name – 3D Printing

Course Code: MEW008 **Year/Semester: IV / VIII**

Sl. No	Registration Number	Student Name
51	411516114104	VINOTH S (03-11-1998)
52	411516114302	CHANDRU R
53	411516114303	JOB A
54	411516114304	KARTHICK E
55	411516114305	MANICKAM D
56	411516114306	NAVEEN KUMAR S
57	411516114307	RAKESH KUMAR SWAIN
58	411516114309	SHAJITH S
59	411516114312	SURENDAR N
60	411516114708	VINOTH V
61	411516114901	THILLAI VENTHAN K
62	411516114002	ABISHEK A
63	411516114006	AJITH A
64	411516114008	AMUDHA RAJ V
65	411516114011	ASHWIN KUMAR R
66	411516114012	BALAJI S
67	411516114014	BALAMURUGAN V
68	411516114021	ELANGO S
69	411516114025	GUKAN J
70	411516114027	GURUMURTHY R
71	411516114029	HARISH K
72	411516114032	JAGADISH M
73	411516114033	JANARTHANAN S
74	411516114034	JAWAHAR SUBBURAJ M
75	411516114039	JOEL RUBERTON R
76	411516114040	JUNIOR NALLATHAMBI K
77	411516114041	KADHARMUGAIDEEN A
78	411516114043	KARMEGAKANNAN N
79	411516114051	MANI K
80	411516114052	MANIKANDAN S

Sl. No	Registration Number	Student Name
81	411516114053	MANOJ KUMAR D
82	411516114054	MERVIN RAJ I
83	411516114056	MOHANA RAM R
84	411516114059	MUKESHKUMAR S
85	411516114060	MUKILAN S
86	411516114063	NIJANTHA KUMAR P
87	411516114066	PRAKASH V
88	411516114067	PRASANTH D
89	411516114068	PRASHANTH C
90	411516114069	PRAVEEN S K
91	411516114075	RAVIKUMAR K S
92	411516114076	RENETH B
93	411516114083	SARAVANAN R
94	411516114086	SERBIN S A
95	411516114090	SURESHKUMAR S
96	411516114094	THAVAKKAL T
97	411516114096	VENKATESH R
98	411516114097	VICHITHIRAN P
99	411516114099	VIGNESH M
100	411516114100	VIGNESH R (19-07-98)
101	411516114101	VIGNESH R (19-08-98)
102	411516114301	BHARANI DHARAN A M
103	411516114308	ROHITH C K
104	411516114310	SRINATH R
105	411516114311	SRINIVASAN D
106	411516114313	UDHAYA KUMAR M
107	411516114701	KANNAN K
108	411516114702	SURENDAR R
109	411516114705	SOUNDARARAJAN M
110	411516114707	SATHISH KUMAR S

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2021-2022
Attendance Sheet
Course Name: 3 D PRINTING

Course Code: MEW008 **Year/Semester: III, IV / VI, VIII**

Sl. No	Registration Number	Student Name	07.01.20	08.01.20	24.01.20	25.01.20	30.01.20
Third Year							
1	411517114001	AADESH M					
2	411517114002	ABDUL HAMEED A					
3	411517114003	ABINESH C					
4	411517114004	ABISHEK M (19-05-1999)					
5	411517114005	ABISHEK M (16-06-2000)					
6	411517114007	AJAY K					
7	411517114008	AJAY R					
8	411517114009	AJAY MUGIL V					
9	411517114010	AJAY RAJ KUMAR G					
10	411517114011	AJAY VISHWA V					
11	411517114012	AJITHKUMAR S					
12	411517114013	AKASH C					
13	411517114014	AKASH S					
14	411517114016	AKASH S					
15	411517114017	ALFRED ROSHAN M					
16	411517114018	ANANDHA KRISHNAN M					
17	411517114019	ANISH R					
18	411517114020	ANNAMALAI S					
19	411517114021	ANTO PRINCE P					
20	411517114022	APPANDAIRAJ S					
21	411517114024	ARAVIND E B					
22	411517114025	ARAVINDA KUMAR M					
23	411517114026	ARAVIND KUMAR S					
24	411517114027	ARUL ANANDHAM A S					
25	411517114028	ARUN A S					
26	411517114029	ARUNKUMAR S					
27	411517114030	ARUN KUMAR V					

28	411517114033	BALAJI S (18-06-99) S					
29	411517114034	BALAJI S (25-10-1999) S					
30	411517114035	BARATH A					
31	411517114039	BHARATH P					
32	411517114040	BUVANESHWAR A					
33	411517114041	CAJETAN RAHUL S A					
34	411517114043	CHERUKURU TEJA					
35	411517114044	DHANUSH E					
36	411517114045	DHARUN NIVAS S N					
37	411517114046	DINESH A					
38	411517114047	DINESH B					
39	411517114049	DINESH KUMAR C					
40	411517114050	DIVYACHANDAR S					
41	411517114051	ELUMALAI A					
42	411517114052	FERNANDES K					
43	411517114054	GOKULARAJA S					
44	411517114055	GOKUL HARSHA P					
45	411517114056	GOPESHWARAN A					
46	411517114057	GOWTHAM N					
47	411517114058	GOWTHAM RAJA M					
48	411517114059	HARIHARAN B					
49	411517114060	HARISH V					
50	411517114063	JAGADEESH G					
51	411517114064	JAIADITHIYAN P					
52	411517114067	KAMALESH E					
53	411517114068	KARAN SINGH J					
54	411517114070	KARTHICKKUMAR S					
55	411517114071	KARTHIKEYAN R					
56	411517114072	KARUPPASAMY A					
57	411517114073	KAVIARASAN J					
58	411517114075	LOGESHWARAN S					
59	411517114076	LOKESH S					
60	411517114077	MADAN JASWANT RAHUL S					
61	411517114078	MADHAVAN M					

62	411517114079	MANICKAVASAGAR S						
63	411517114080	MANIKANDAN C						
64	411517114083	MANISH KUMAR R						
65	411517114084	MANOJ G						
66	411517114085	MANOJ KUMAR A						
67	411517114086	MANYAM R CHARAN						
68	411517114087	MARTIN ROY S						
69	411517114088	MESHACH NEERAJ P V						
70	411517114089	MITHUNA SRINIKA A						
71	411517114091	MOHAMMED ABUL FATHAH Z						
72	411517114092	MOOVENDHAN V						
73	411517114093	MOSES JEBARAJ A						
74	411517114094	MUGESH KANNAN M						
75	411517114095	MUHAMMAD YASAR ARAFATH S						
76	411517114096	MUKESHKUMAR S						
77	411517114097	MUTHURAMALINGAM V						
78	411517114098	MUZAFAR AHAMED F						
79	411517114099	NAKKEERAN N						
80	411517114100	NATARAJAN G						
81	411517114101	NEHRU T						
82	411517114102	NITHISH KUMAR S						
83	411517114103	PALANI S						
84	411517114104	PALANIVEL RAJA K						
85	411517114105	PALLAVARAJ V						
86	411517114106	PARVENDHAN T						
87	411517114107	PATURU VISHAL						
88	411517114108	PAVITHRAN S						
89	411517114110	PRABAKARAN J						
90	411517114111	PRADEEP KUMAR K						
91	411517114112	PRAVEEN KUMAR J						
92	411517114113	PRAVEEN KUMAR M						
93	411517114114	PRAVEEN KUMAR S (03-03-1999)						
94	411517114115	PRAVEEN KUMAR S (08-						

		04-2000)					
95	411517114116	PRAVINKUMAR K					
96	411517114117	PREM KUMAR J					
97	411517114118	PRIYESH P					
98	411517114119	RAGHU D					
99	411517114120	RAGUL R					
100	411517114122	RAMANAIAH C V					
101	411517114124	RAVI KUMARAN K					
102	411517114125	REVANTH S					
103	411517114126	RISIKESH K					
104	411517114127	SABARI A					
105	411517114128	SABBE SATHVIK					
106	411517114129	SAI BHARGAV K					
107	411517114130	SAKTHI ANAND R					
108	411517114131	SAKTHIVEL E					
109	411517114132	SANDHIYA T					
110	411517114134	SATHISH J					
111	411517114135	SATHISHKUMAR S					
112	411517114136	SELVADURAI C					
113	411517114137	SELVAM P					
114	411517114138	SENTHAMILAN K					
115	411517114140	SOBIKA S					
116	411517114142	SONU PRASAAD H					
117	411517114143	SREEVATHSAN B					
118	411517114144	SRIDHAR S					
119	411517114145	SUDHEER V					
120	411517114146	SUGUMARAN K					
121	411517114147	SULTHAN BASHA A					
122	411517114148	SURESH KUMAR S					
123	411517114149	SURIYA K					
124	411517114150	SYED NAZEEF					
125	411517114151	THENNARASU R					
126	411517114152	THIYAGU C					
127	411517114154	THULACI RAMAN R					

128	411517114155	UDATHA MYTHRESH SAI MAHADEV						
129	411517114156	VASANTHA KUMAR S						
130	411517114157	VIGNESH A						
131	411517114158	VIGNESH G (21-12-1999)						
132	411517114159	VIGNESH G (23-12-1999)						
133	411517114160	VIGNESH P						
134	411517114161	VIGNESH R						
135	411517114162	VIGNESHWARAN K						
136	411517114164	VIKRAM P						
137	411517114165	VIKRAMAN T						
138	411517114168	YASAR ARUN S						
139	411517114169	YUVAPRASATH B						
140	411517114170	YVESRON P						
141	411517114301	ARUN KUMAR G						
142	411517114302	GANGADHARAN K						
143	411517114303	PRAVEEN KUMAR N						
144	411517114304	ROGAN RAJ P						
145	411517114305	VIGNESH S						
146	411517114306	YOGESHWAR RAO S						
147	411517114701	RAJA EBIN S						
Final Year								
1	411516114003	AJAY KRISHNAN H						
2	411516114004	AJAY KUMAR P						
3	411516114005	AJESH LIBIN A						
4	411516114009	ANTROW BAVIN A						
5	411516114010	ASHWINKUMAR J						
6	411516114013	BALAMURUGAN P						
7	411516114015	CHRISTOB MELBAN S						
8	411516114016	DHACHENAMOORTHY V						
9	411516114017	DHANAARASU D						
10	411516114019	DINESH R						

11	411516114020	DINESH KUMAR S						
12	411516114022	GOPAL CHOWDARY F						
13	411516114023	GOPINATH C						
14	411516114024	GOWTHAM K						
15	411516114026	GUNASEKAR M						
16	411516114028	HARI GANESH R						
17	411516114031	HEMNATH G						
18	411516114035	JAYAPRATHAP E						
19	411516114036	JEEVA PENIEL D						
20	411516114037	JEEVESH S						
21	411516114045	KARTHIKEYAN V G						
22	411516114046	KEERTHIVASAN R						
23	411516114047	KUMARAN B						
24	411516114048	KURALARASAN V						
25	411516114049	LAKSHMI NARAYANAN N						
26	411516114055	MOHAMED ANWAR A						
27	411516114057	MOHANBABU S						
28	411516114058	MONESH RAJA R						
29	411516114061	NAGANANTHAN S						
30	411516114062	NAVEEN KUMAR G						
31	411516114064	NIRMAL KUMAR R						
32	411516114071	RAGHAVARDHAN V						
33	411516114072	RAJ S						
34	411516114073	RAMKUMAR K						
35	411516114074	RAVICHANDRAN M						
36	411516114078	RITHIK P S						
37	411516114080	SAM PRINCE M						
38	411516114081	SAMSON F						
39	411516114082	SANTHOSHKUMAR T						
40	411516114084	SATHISH B						
41	411516114085	SATHIS KUMAR R						
42	411516114087	SHAKTHIVEL R						

43	411516114088	SIVAGNANAM A	SIVA	SIVA	SIVA	SIVA	SIVA	
44	411516114089	SUNDHAR M						
45	411516114092	TAMIZH MANNAN S						
46	411516114093	THARANEESWAR H						
47	411516114095	VAIDYANATHAN V						
48	411516114098	VIGNESH B						
49	411516114102	VIJAYRAJAN V						
50	411516114103	VINOTH S (29-04-1998)						
51	411516114104	VINOTH S (03-11-1998)						
52	411516114302	CHANDRU R						
53	411516114303	JOB A						
54	411516114304	KARTHICK E						
55	411516114305	MANICKAM D						
56	411516114306	NAVEEN KUMAR S						
57	411516114307	RAKESH KUMAR SWAIN						
58	411516114309	SHAJITH S						
59	411516114312	SURENDAR N						
60	411516114708	VINOTH V						
61	411516114901	THILLAI VENTHAN K						
62	411516114002	ABISHEK A						
63	411516114006	AJITH A						
64	411516114008	AMUDHA RAJ V						
65	411516114011	ASHWIN KUMAR R						
66	411516114012	BALAJI S						
67	411516114014	BALAMURUGAN V						
68	411516114021	ELANGO S						
69	411516114025	GUKAN J						
70	411516114027	GURUMURTHY R						
71	411516114029	HARISH K						
72	411516114032	JAGADISH M						
73	411516114033	JANARTHANAN S						
74	411516114034	JAWAHAR SUBBURAJ M						
75	411516114039	JOEL RUBERTON R						
76	411516114040	JUNIOR NALLATHAMBI K						

77	411516114041	KADHARMUGAIDEEN A						
78	411516114043	KARMEGAKANNAN N						
79	411516114051	MANI K						
80	411516114052	MANIKANDAN S						
81	411516114053	MANOJ KUMAR D						
82	411516114054	MERVIN RAJ I						
83	411516114056	MOHANA RAM R						
84	411516114059	MUKESHKUMAR S						
85	411516114060	MUKILAN S						
86	411516114063	NIJANTHA KUMAR P						
87	411516114066	PRAKASH V						
88	411516114067	PRASANTH D						
89	411516114068	PRASHANTH C						
90	411516114069	PRAVEEN S K						
91	411516114075	RAVIKUMAR K S						
92	411516114076	RENETH B						
93	411516114083	SARAVANAN R						
94	411516114086	SERBIN S A						
95	411516114090	SURESHKUMAR S						
96	411516114094	THAVAKKAL T						
97	411516114096	VENKATESH R						
98	411516114097	VICHITHIRAN P						
99	411516114099	VIGNESH M						
100	411516114100	VIGNESH R (19-07-98)						
101	411516114101	VIGNESH R (19-08-98)						
102	411516114301	BHARANI DHARAN A M						
103	411516114308	ROHITH C K						
104	411516114310	SRINATH R						
105	411516114311	SRINIVASAN D						
106	411516114313	UDHAYA KUMAR M						
107	411516114701	KANNAN K						
108	411516114702	SURENDAR R						
109	411516114705	SOUNDARARAJAN M						
110	411516114707	SATHISH KUMAR S						

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

MEW008 – 3D Printing

Syllabus

Session 1: Introduction to 3D Printing

Overview of 3D Printing Technology, History and evolution, Comparison with traditional manufacturing, Types of 3D Printing Technologies, Fused Deposition Modeling (FDM), Stereolithography (SLA), Selective Laser Sintering (SLS), Other emerging technologies

Session 2: 3D Modeling and Design

Introduction to CAD Software, Basics of CAD tools (e.g., Tinkercad, Fusion 360, Solid Works), Design Principles for 3D Printing, Designing for printability, Structural integrity and support, Creating and Modifying 3D Models

Session 3: Materials for 3D Printing

Overview of 3D Printing Materials, Plastics (PLA, ABS, PETG), Resins, Metals, Composites, Material Properties and Applications, Strength, flexibility, durability, Choosing the right material for your project

Session 3: 3D Printer Operation and Maintenance

Printer Setup and Calibration, Unboxing and assembling, Calibration techniques, Maintenance and Troubleshooting, Common issues and solutions, Regular maintenance tasks

Session 4: Printing and Post-Processing

Hands-On Printing Sessions, Printing your first model, monitoring the printing process, Post-Processing Techniques, Removing supports, Sanding, painting, and finishing, Assembly of printed parts

Session 5: Applications of 3D Printing

Industry Case Studies, Healthcare (prosthetics, medical models), Automotive and aerospace, Consumer products and fashion, Innovative, Applications, Customization and personalization, Rapid prototyping.

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

Name : PRAKASH. C
Reg No : 411516114066
Year : IV

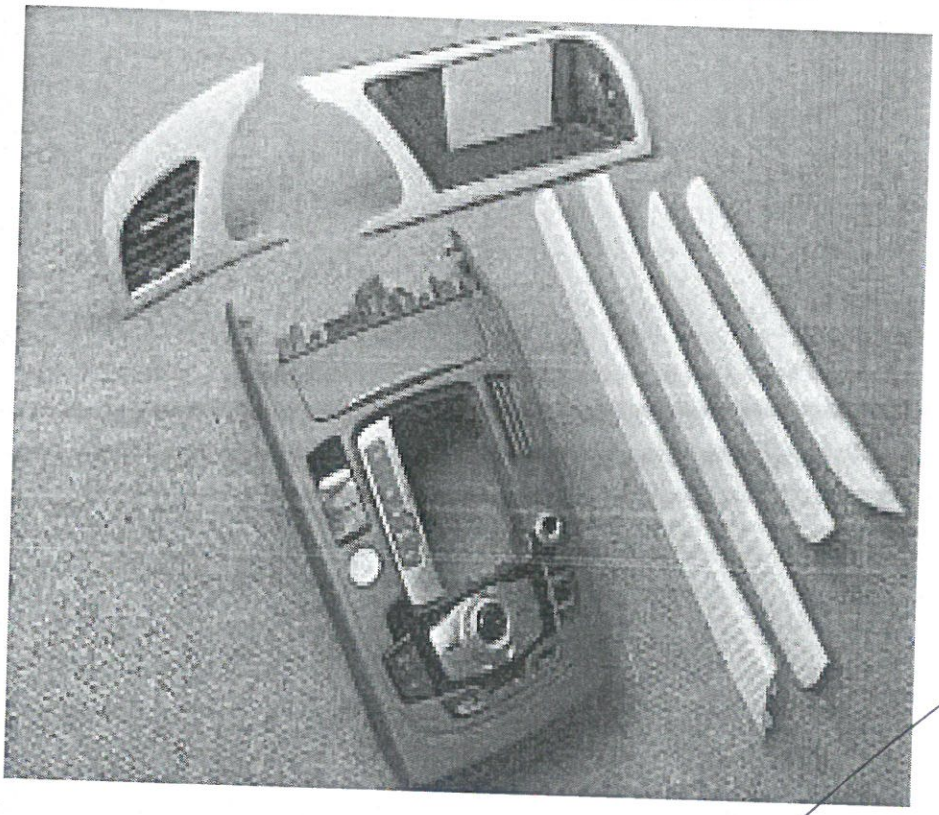
PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING 30.01.2020.

ACADEMIC YEAR 2019-2020

Assessment Test

Course code and Name: MEW008 3D PRINTING



84/100

DATE : 30.01.2020

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2019-2020

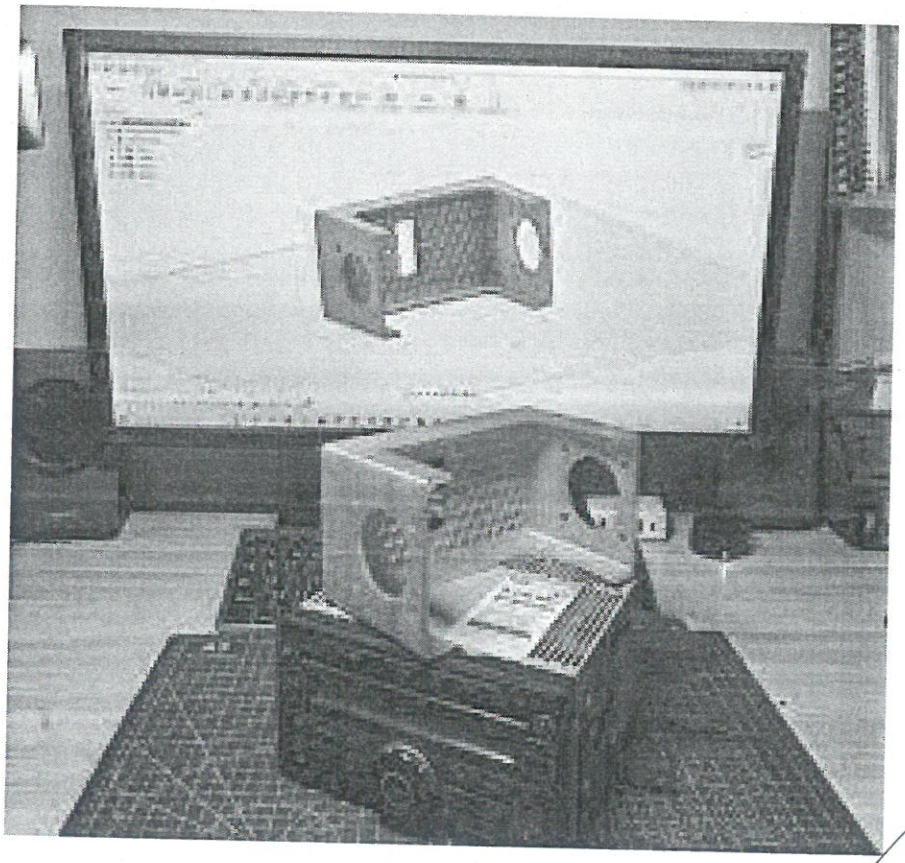
Reg. NO : 411516114311

Name : Srinivasan.D

Assessment Test

Course code and Name: MEW008 3D PRINTING

Class : IV yr



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PERI INSTITUTE OF TECHNOLOGY

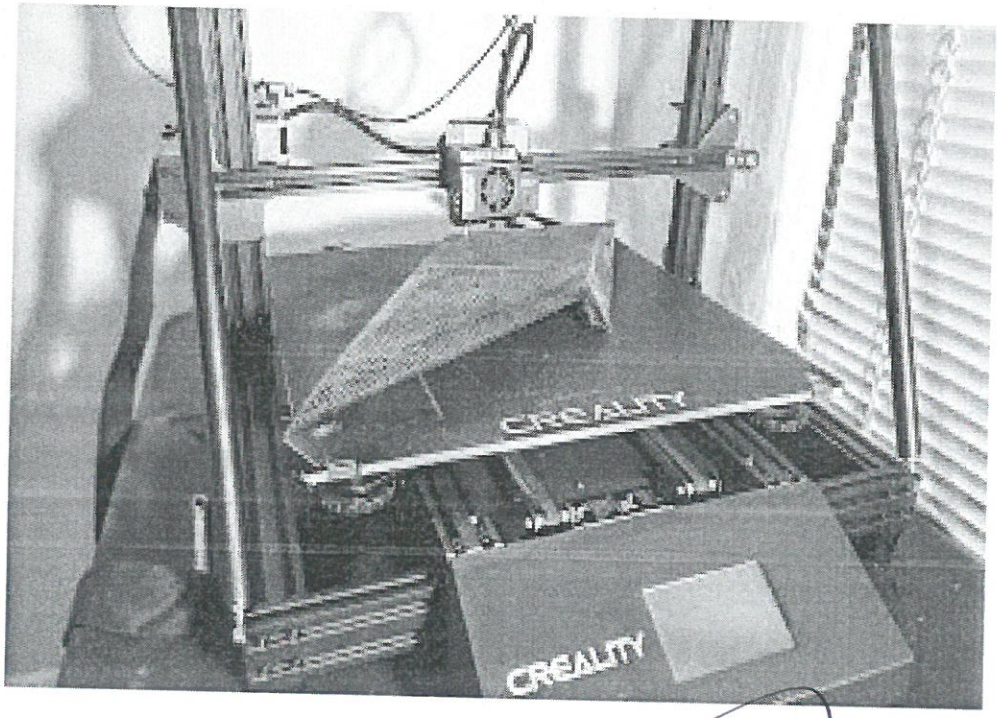
DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2019-2020

4115171406
Jagadeesh.G
III yr.
30.01.2020

Assessment Test

Course code and Name: MEW008 3D PRINTING



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PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2019-2020

Ref: PERI IT /MECH /Workshop/2019-2020/02 **Date: 06.12.2019**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct Workshop titled **"AUTO CAD"** for the Academic year of 2019 – 2020 for II year Mechanical students.

Sl. No.	Year	Scheduled Date	Session 1	Session 2
1	II	07.01.2020 – 30.01.2020	8.30 AM to 11.45AM	12.30PM to3.30PM

Co- Ordinator

Head of the Department

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

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2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEW006 **Year/Semester: II / IV**

Course Name: AUTO CAD **Session: FN & AN**

Sl. No	DATE	HOURS	TOPICS
1	07.01.2020	1-6th hour	Introduction to the workshop objectives and schedule. Overview of AutoCAD's capabilities and applications. Installing and setting up AutoCAD. Understanding the user interface and workspace
2	08.01.2020	1-6th hour	Drawing lines, circles, rectangles, and other shapes. Using coordinate systems and drawing aids. Modifying objects with commands like Move, Copy, Rotate, and Scale. Using the Undo and Redo functions effectively.
3	24.01.2020	1-6th hour	Creating and managing layers. Setting layer properties and using layer tools. Grouping objects and using blocks. Creating and managing templates. Applying dimensions and text annotations. Using multileaders and tables. Applying hatch patterns and gradients to drawings.
4	24.01.2020	1-6th hour	Understanding 3D coordinate systems. Navigating the 3D workspace. Drawing basic 3D shapes (boxes, cylinders, spheres). Extruding and revolving 2D profiles to create 3D models. Using commands like Presspull, Fillet, and Chamfer in 3D. Editing 3D solids and surfaces. Applying materials and lighting. Creating and editing camera views.
5	30.01.2020	1-6th hour	Creating complex shapes using lofts and sweeps. Working with meshes and surfaces. Rendering 3D models to create realistic images. Exploring visualization and presentation techniques. Customizing the AutoCAD interface. Creating custom tool palettes and menus.

Coordinator **HOD/MECH**

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2019-2020
Participants Name List
Course Name – AUTO CAD

Course Code: MEW006 **Year/Semester: II / IV**

Sl. No	Registration Number	Student Name
1	411518114001	AJAY N
2	411518114002	AJITH KUMAR S
3	411518114003	ALLWIN RAJ SUDHAN A
4	411518114004	AMARNATH S
5	411518114005	ARAVINTH R
6	411518114006	ARUN S G
7	411518114007	AVINASH R
8	411518114008	BALAJI K
9	411518114009	BHUVAN RAJ P
10	411518114010	CHANDRASEKAR G
11	411518114011	CHANDRU A
12	411518114012	DEVENDARAKUMARAN
13	411518114013	DILLIBABU E P
14	411518114014	DIVYA S
15	411518114015	GANGULY R
16	411518114016	GOKUL S
17	411518114017	GOWTHAM T
18	411518114018	HARISH R
19	411518114019	HARISUDHAN S
20	411518114020	HEMANTH KUMAR R
21	411518114021	JAINULABDEEN J
22	411518114022	JAWAHAR S
23	411518114024	KAARTHI R A
24	411518114025	KADURU VINOD KUMAR
25	411518114026	KARTHICK K
26	411518114027	KARTHIKEYAN M
27	411518114028	KUMARESAN P
28	411518114029	LAKSHMANA PRABU K
29	411518114030	MAADESHWARAN A

Sl. No	Registration Number	Student Name
30	411518114031	MANIGANDAN A
31	411518114032	MANIKANDAN P
32	411518114033	MATHIBHAVAN D
33	411518114034	MITHUN A
34	411518114035	MUTHU PRAKASH V
35	411518114037	NAVEEN R
36	411518114039	PONNAPALLI SAISUMANTH
37	411518114040	PRAVEEN KUMAR B
38	411518114041	RAGURAJ B
39	411518114042	RAHUL V
40	411518114043	RAJASRINIVASAN K
41	411518114044	RAJESHKUMAR M
42	411518114045	RAMACHANDRAN M
43	411518114046	REVANTH KUMAR S
44	411518114047	ROHIT RAGAV S S
45	411518114048	SAI SHYAM S
46	411518114051	SOUNDER S
47	411518114052	SUDARMANI V
48	411518114053	SUGAN R
49	411518114054	SURENDRAN P S
50	411518114055	SURYA L
51	411518114056	SURYA M
52	411518114057	VEERAMANI J
53	411518114058	VIGNESH K
54	411518114059	VIGNESHWARAN V
55	411518114301	DINESH S
56	411518114302	RAVIKUMAR S
57	411518114303	SUNI KAMALESH K

Coordinator **HOD/MECH**

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2019-2020
Attendance Sheet
Course Name: AUTO CAD

Course Code: MEW006 **Year/Semester: II / IV**

Sl. No	Registration Number	Student Name	07.01.20	08.01.20	24.01.20	25.01.20	30.01.20
1	411518114001	AJAY N					
2	411518114002	AJITH KUMAR S					
3	411518114003	ALLWIN RAJ SUDHAN A					
4	411518114004	AMARNATH S					
5	411518114005	ARAVINTH R					
6	411518114006	ARUN S G					
7	411518114007	AVINASH R					
8	411518114008	BALAJI K					
9	411518114009	BHUVAN RAJ P					
10	411518114010	CHANDRASEKAR G					
11	411518114011	CHANDRU A					
12	411518114012	DEVENDARAKUMARA N					
13	411518114013	DILLIBABU E P					
14	411518114014	DIVYA S					
15	411518114015	GANGULY R					
16	411518114016	GOKUL S					
17	411518114017	GOWTHAM T					
18	411518114018	HARISH R					
19	411518114019	HARISUDHAN S					
20	411518114020	HEMANTH KUMAR R					
21	411518114021	JAINULABDEEN J					
22	411518114022	JAWAHAR S					
23	411518114024	KAARTHI R A					
24	411518114025	KADURU VINOD KUMAR					
25	411518114026	KARTHICK K					
26	411518114027	KARTHIKEYAN M					
27	411518114028	KUMARESAN P					
28	411518114029	LAKSHMANA PRABU K					

29	411518114030	MAADESHWARAN A					
30	411518114031	MANIGANDAN A					
31	411518114032	MANIKANDAN P					
32	411518114033	MATHIBHAVAN D					
33	411518114034	MITHUN A					
34	411518114035	MUTHU PRAKASH V					
35	411518114037	NAVEEN R					
36	411518114039	PONNAPALLI SAISUMANTH					
37	411518114040	PRAVEEN KUMAR B					
38	411518114041	RAGURAJ B					
39	411518114042	RAHUL V					
40	411518114043	RAJASRINIVASAN K					
41	411518114044	RAJESHKUMAR M					
42	411518114045	RAMACHANDRAN M					
43	411518114046	REVANTH KUMAR S					
44	411518114047	ROHIT RAGAV S S					
45	411518114048	SAI SHYAM S					
46	411518114051	SOUNDER S					
47	411518114052	SUDARMANI V					
48	411518114053	SUGAN R					
49	411518114054	SURENDRAN P S					
50	411518114055	SURYA L					
51	411518114056	SURYA M					
52	411518114057	VEERAMANI J					
53	411518114058	VIGNESH K					
54	411518114059	VIGNESHWARAN V					
55	411518114301	DINESH S					
56	411518114302	RAVIKUMAR S					
57	411518114303	SUNI KAMALESH K					

Coordinator

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

MEW006 – AUTO CAD

Syllabus

Session 1: **Introduction to AutoCAD**

- Introduction to the workshop objectives and schedule. Overview of AutoCAD's capabilities and applications. Installing and setting up AutoCAD. Understanding the user interface and workspace.

Session 2: **Basic 2D Drawing Tools**

- Drawing lines, circles, rectangles, and other shapes. Using coordinate systems and drawing aids. Modifying objects with commands like Move, Copy, Rotate, and Scale. Using the Undo and Redo functions effectively.

Session 3: **Advanced 2D Drawing Techniques, Dimensioning and Annotations**

- Creating and managing layers. Setting layer properties and using layer tools. Grouping objects and using blocks. Creating and managing templates. Applying dimensions and text annotations. Using multileaders and tables. Applying hatch patterns and gradients to drawings.

Session 4: **Introduction to 3D Modeling and Modifying 3D Objects**

- Understanding 3D coordinate systems. Navigating the 3D workspace. Drawing basic 3D shapes (boxes, cylinders, spheres). Extruding and revolving 2D profiles to create 3D models. Using commands like Presspull, Fillet, and Chamfer in 3D. Editing 3D solids and surfaces. Applying materials and lighting. Creating and editing camera views.

Session 5: **Advanced 3D Modeling and Customization**

- Creating complex shapes using lofts and sweeps. Working with meshes and surfaces. Rendering 3D models to create realistic images. Exploring visualization and presentation techniques. Customizing the AutoCAD interface. Creating custom tool palettes and menus.

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

Name: Balaji. K
Reg: 411518114003
Date: 30.01.20
Year: II/IV

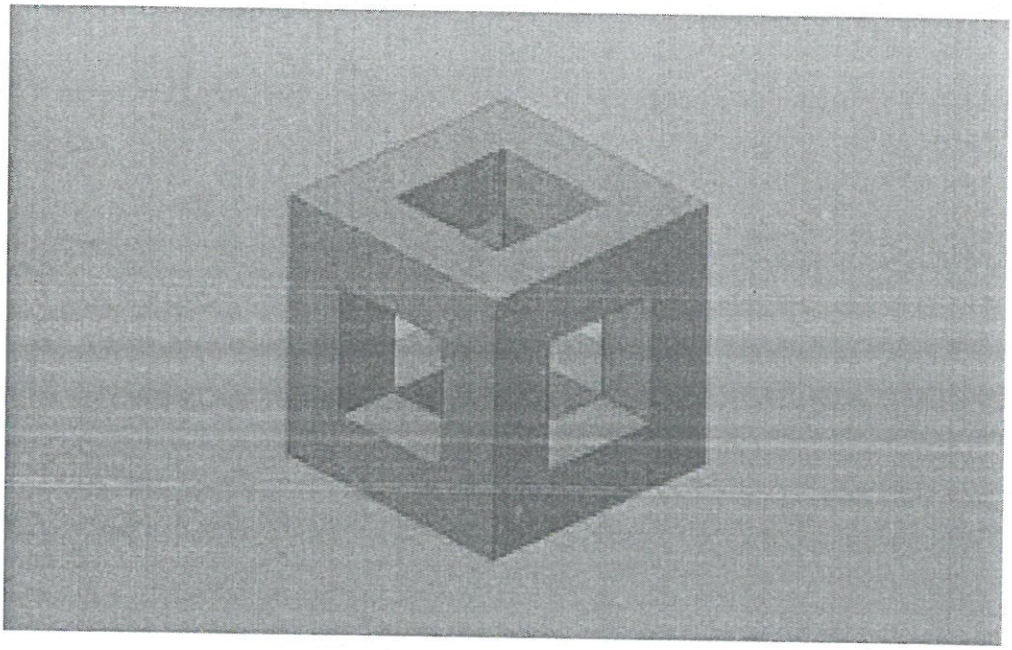
PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2019-2020

Assessment Test

Course code and Name: MEW006 AUTO CAD



65/100

Amarnaths
4/151 8114004

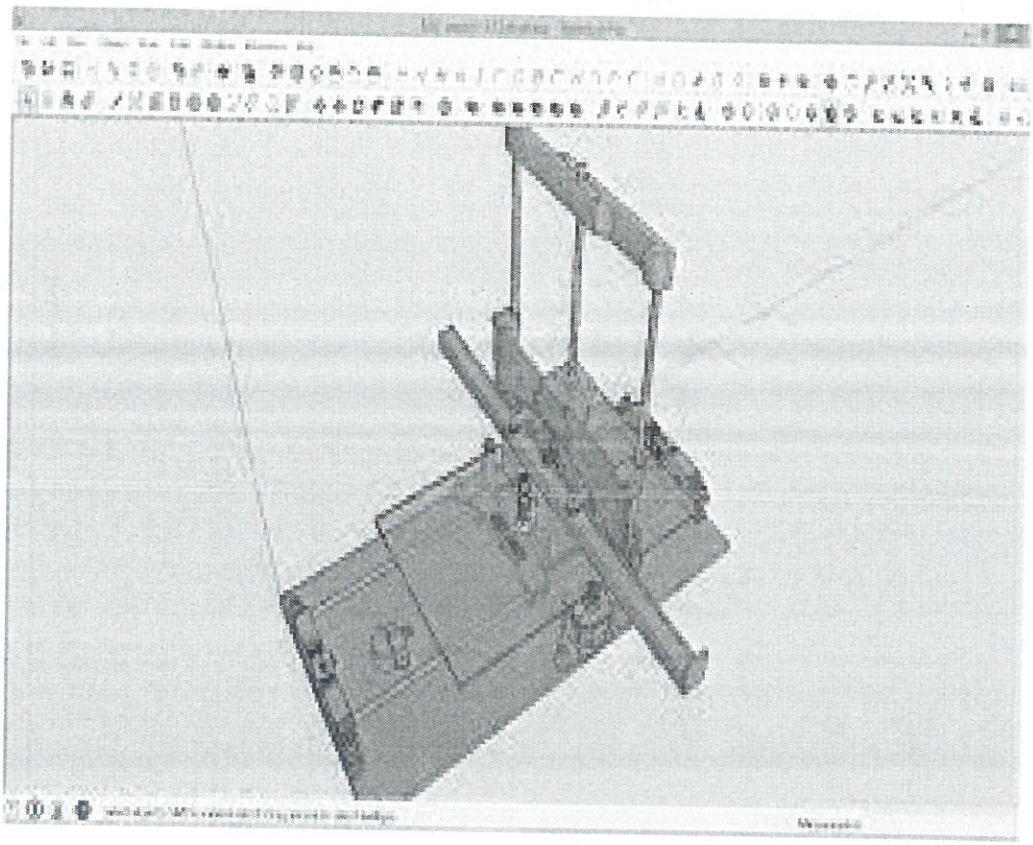
PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2019-2020

Assessment Test

Course code and Name: MEW006 AUTO CAD



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Sumnutty

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

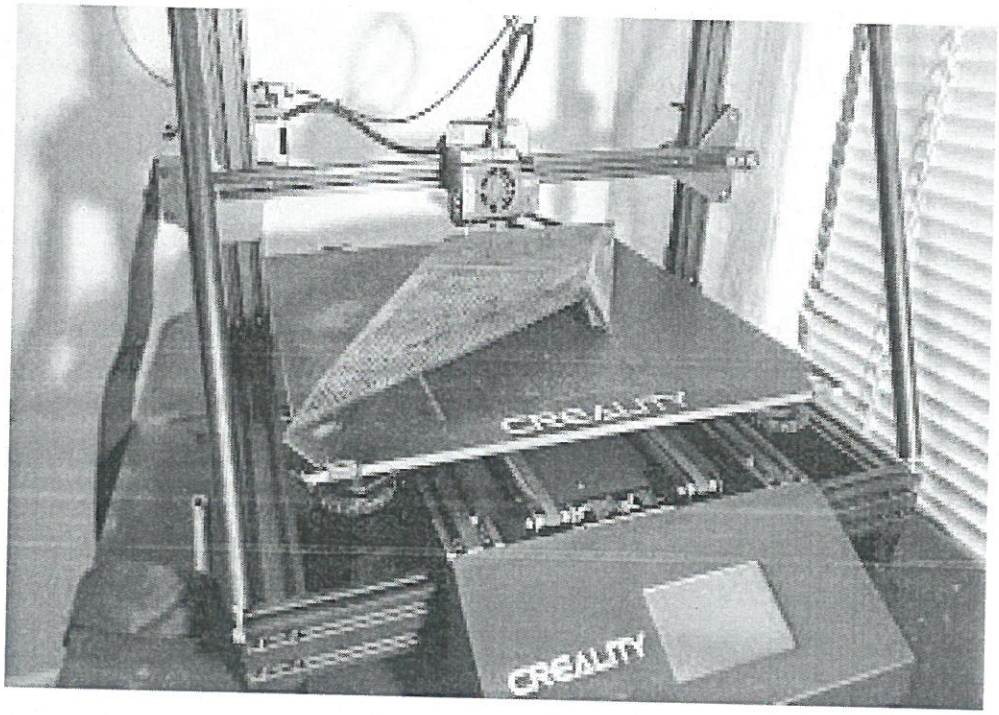
ACADEMIC YEAR 2019-2020

Sri Kamalesh K

411518114303

Assessment Test

Course code and Name: MEW006 AUTO CAD



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PERI
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

PERIIT /CIVIL/Add on Course /2018-2019/Even/01 **Date: 01.02.2019**

CIRCULAR

Department of Civil Engineering is planned to conduct a program titled "CC008 **-Analysis of Structures using STAAD Pro "**for the Academic Year 2018 – 2019 for CIVIL Engineering III year,IV year students directed to attend the program.

S.No.	Year	Scheduled Date	session
1	III,IV	11-02-2019 to 15-02-2019	8.30a.m to 3.40p.m

Co-ordinator 1/2/19

Head of the Department

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

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1. Principal
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4. Faculty Members – Civil
5. Main – Notice Board

INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

ADD ON COURSE-TIME TABLE

CC008 -Analysis of Structures using STAAD Pro

S.No	Date	Hours	Topics
1	11.02.2019	1-8	Overview of Structural Analysis and Design,Introduction to STAAD Pro. V8i Getting Pro. Workspace,Staad Editor,Structure Wizard,Creating a New Project and Units.Introduction to File, Edit, View, Selection, Geometry, Commands, Analyze, Mode,Introduction to Snap Node/Beam,Insert Node and Add Beam,Introduction to Setup, Geometry, General, Analysis/Print and Design,Assigning Properties,Assigning Supports,Group Specification
2	12.02.2019	1-8	Assigning Load,Structure Analysis,Material Specification,Loading,Introduction to Analysis,Perform Analysis,Overview of Output Page,Pre-analysis and Post-analysis Print
3	13.02.2019	1-8	General Guideline for Design,Column and Beam Design ,Reinforced Concrete Design
4	14.02.2019	1-8	Truss Analysis,Roof Truss Analysis,Bridge Truss Analysis
5	15.02.2019	1-8	Multi-storied building frame,Internal assesment

Head of the Department
Department of Civil Engineering
PERI Institute of Technology,
Mannivakkam, Chennai - 600 048

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

ADD ON COURSE

CC008 Analysis of Structures using STAAD Pro

STUDENTS LIST

Final Years		
S. No.	**Reg. No.**	**Name of the Students**
1	411515103001	Aakash S
2	411515103003	Abirami Yazhini G
3	411515103004	Ajay Kanna K
4	411515103005	Ajith Kumar C
5	411515103006	Ajith Kumar D
6	411515103008	Ajith Kumar M
7	411515103009	Ajith Kumar R
8	411515103010	Akash A
9	411515103011	Akileshwaran K P
10	411515103012	Anantha Krishnan R
11	411515103013	Anirudhan R
12	411515103015	Aravind T
13	411515103016	Arunachalam R
14	411515103017	Arunkumar R
15	411515103018	Arun Kumar M
16	411515103019	Athish R R
17	411515103021	Balachandar K
18	411515103022	Balaji K
19	411515103023	Balaji K V

20	411515103024	Balaji R
21	411515103025	Barath M
22	411515103026	Bharath P
23	411515103027	Boobalan S
24	411515103028	Boomiga N
25	411515103029	Chandra Pandian C
26	411515103030	Dakshnamoorthy R
27	411515103031	Deepak Raj S
28	411515103032	Dhanasekar K
29	411515103033	Dinesh M
30	411515103034	Divaker D
31	411515103035	Faijur Rahman B
32	411515103036	Gunanithi S
33	411515103037	Hariharan N
34	411515103038	Hemananth C S
35	411515103039	Hindhumathi Y
36	411515103040	Iniyavan E P
37	411515103041	Jaikrishnna T
38	411515103042	Jaya C S
39	411515103044	Jeevitha N
40	411515103045	Jeyaruban A
41	411515103047	Kaliyamoorthy M
42	411515103048	Kamesh S
43	411515103049	Karthick S
44	411515103050	Kavin Romero George H
45	411515103051	Kaviyarasu R

46	411515103052	Kharatmole Gayathrri
47	411515103054	Logesh R
48	411515103055	Lokesh R
49	411515103056	Mahadevan S
50	411515103057	Maniratnam S
51	411515103058	Manivannan R
52	411515103061	Mohan T
53	411515103062	Narendhiran G
54	411515103063	Nirmal Kumar P
55	411515103064	Nithish Raja N
56	411515103066	Parthiban M
57	411515103067	Pavithra D
58	411515103068	Prabhu S
59	411515103069	Praveen R
60	411515103070	Praveen Kumar C
61	411515103071	Pravin Ajho M
62	411515103072	Preethi K
63	411515103075	Ragul R
64	411515103076	Rammohan S
65	411515103077	Ramu R
66	411515103078	Ramya Githanjali S
67	411515103079	Ranjith Kumar N
68	411515103080	Ranjith Kumar P
69	411515103081	Rathna Gowtham R M
70	411515103082	Sasi Kumar R
71	411515103083	Sathish Pandian C

72	411515103084	Selva Ganesh K
73	411515103085	Sharvesh R
74	411515103086	Shre Shinika G
75	411515103088	Sivasakthi R
76	411515103089	Srihari S
77	411515103090	Sriram S
78	411515103091	Subash D
79	411515103092	Subbulakshmi R
80	411515103093	Surya S
81	411515103094	Thamizharasan R
82	411515103095	Thangamuthu M
83	411515103096	Tharvesh Mohaideen
84	411515103097	Veeraselvan P
85	411515103098	Vel Murugan V
86	411515103099	Vidhya S
87	411515103100	Vignesh M
88	411515103101	Vigneshwaran M
89	411515103102	Vigneswaran P
90	411515103103	Yakesh N
91	411515103104	Yuvaraj D
92	411515103105	Yuvaraj K
93	411515103301	Ajithkumar M
94	411515103302	Basilton Immanuel
95	411515103303	Bhavani S
96	411515103304	K.Gokulnath
97	411515103305	Karthick D

98	411515103306	Karthick M
99	411515103307	Priya M
100	411515103308	Santhana Krishnan
Third Years		
101	411516103002	S Anbu Raj
102	411516103003	R Balaji
103	411516103005	M Hariharan
104	411516103006	R Harshavardhan
105	411516103008	P Mohana Krishnan
106	411516103009	A Nishanthi
107	411516103010	K Raja Karuna
108	411516103011	G Sahithyan
109	411516103012	S. Sandeep
110	411516103014	S Sathish
111	411516103016	M. Surya Raj
112	411516103017	M. Vasantha Kumar
113	411516103018	J.J Vignesh
114	411516103019	M. Vinoth
115	411516103021	S Yogeshwaran
116	411516103301	Arif
117	411516103303	K Navikash
118	411516103304	Ram Prasath
119	411516103306	I Viswath Kumar
120	411516103701	K. Bagath Singh
121	411516103702	M.Hariharan

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DEPARTMENT OF CIVIL ENGINEERING
ADD ON COURSE
Analysis of Structures using STAAD Pro - CC008
ACADEMIC YEAR 2018– 2019
ATTENDANCE SHEET
(11.02.2019 to 15.02.2019)

Duration of course:40 Hours **Number of students enrolled in the year: 121**

Third Years

S. No.	Reg. No.	Name of the Students	11.02.2019	12.02.2019	13.02.2019	14.02.2019	15.02.2019
1	411516103002	S Anbu Raj					
2	411516103003	R Balaji					
3	411516103005	M Hariharan					
4	411516103006	R Harshavardhan					
5	411516103008	P Mohana Krishnan					
6	411516103009	A Nishanthi					
7	411516103010	K Raja Karuna					
8	411516103011	G Sahithyan					
9	411516103012	S. Sandeep					
10	411516103014	S Sathish					
11	411516103016	M. Surya Raj					
12	411516103017	M. Vasantha Kumar					
13	411516103018	J.J Vignesh					
14	411516103019	M. Vinoth					
15	411516103021	S Yogeshwaran					
16	411516103301	Arif					
17	411516103303	K Navikash					
18	411516103304	Ram Prasath					
19	411516103306	I Viswath Kumar					
20	411516103701	K. Bagath Singh					
21	411516103702	M.Hariharan					

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Mannivakkam, Chennai - 600 048

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

Analysis of Structures using STAAD Pro - CC008

ACADEMIC YEAR 2018– 2019

ATTENDANCE SHEET

(11.02.2019 to 15.02.2019)

Duration of course:40 Hours **Number of students enrolled in the year:100**

Final Years

S. No.	Reg. No.	Name of the Students	11.02.2019	12.02.2019	13.02.2019	14.02.2019	15.02.2019
1	411515103001	Aakash S					
2	411515103003	Abirami Yazhini G					
3	411515103004	Ajay Kanna K					
4	411515103005	Ajith Kumar C					
5	411515103006	Ajith Kumar D					
6	411515103008	Ajith Kumar M					
7	411515103009	Ajith Kumar R					
8	411515103010	Akash A					
9	411515103011	Akileshwaran K P					
10	411515103012	Anantha Krishnan R					
11	411515103013	Anirudhan R					
12	411515103015	Aravind T					
13	411515103016	Arunachalam R					
14	411515103017	Arunkumar R					
15	411515103018	Arun Kumar M					
16	411515103019	Athish R R					
17	411515103021	Balachandar K					
18	411515103022	Balaji K					
19	411515103023	Balaji K V					
20	411515103024	Balaji R					
21	411515103025	Barath M					
22	411515103026	Bharath P					
23	411515103027	Boobalan S					
24	411515103028	Boomiga N					
25	411515103029	Chandra Pandian C					
26	411515103030	Dakshnamoorthy R					
27	411515103031	Deepak Raj S					
28	411515103032	Dhanasekar K					
29	411515103033	Dinesh M					
30	411515103034	Divaker D					
31	411515103035	Faijur Rahman B					
32	411515103036	Gunanithi S					
33	411515103037	Hariharan N					
34	411515103038	Hemananth C S					
35	411515103039	Hindhumathi Y					
36	411515103040	Iniyavan E P					
37	411515103041	Jaikrishnna T					
38	411515103042	Jaya C S					
39	411515103044	Jeevitha N					
40	411515103045	Jeyaruban A					
41	411515103047	Kaliyamoorthy M					
42	411515103048	Kamesh S					
43	411515103049	Karthick S					
44	411515103050	Kavin Romero George H					
45	411515103051	Kaviyarasu R					
46	411515103052	Kharatmole Gayathrri					
47	411515103054	Logesh R					
48	411515103055	Lokesh R					
49	411515103056	Mahadevan S					
50	411515103057	Maniratnam S					

51	411515103058	Manivannan R						
52	411515103061	Mohan T						
53	411515103062	Narendhiran G						
54	411515103063	Nirmal Kumar P						
55	411515103064	Nithish Raja N						
56	411515103066	Parthiban M						
57	411515103067	Pavithra D						
58	411515103068	Prabhu S						
59	411515103069	Praveen R						
60	411515103070	Praveen Kumar C						
61	411515103071	Pravin Ajho M						
62	411515103072	Preethi K						
63	411515103075	Ragul R						
64	411515103076	Rammohan S						
65	411515103077	Ramu R						
66	411515103078	Ramya Githanjali S						
67	411515103079	Ranjith Kumar N						
68	411515103080	Ranjith Kumar P						
69	411515103081	Rathna Gowtham R M						
70	411515103082	Sasi Kumar R						
71	411515103083	Sathish Pandian C						
72	411515103084	Selva Ganesh K						
73	411515103085	Sharvesh R						
74	411515103086	Shre Shinika G						
75	411515103088	Sivasakthi R						
76	411515103089	Srihari S						
77	411515103090	Sriram S						
78	411515103091	Subash D						
79	411515103092	Subbulakshmi R						
80	411515103093	Surya S						
81	411515103094	Thamizharasan R						
82	411515103095	Thangamuthu M						
83	411515103096	Tharvesh Mohaideen						
84	411515103097	Veeraselvan P						
85	411515103098	Vel Murugan V						
86	411515103099	Vidhya S						
87	411515103100	Vignesh M						
88	411515103101	Vigneshwaran M						
89	411515103102	Vigneswaran P						
90	411515103103	Yakesh N						
91	411515103104	Yuvaraj D						
92	411515103105	Yuvaraj K						
93	411515103301	Ajithkumar M						
94	411515103302	Basilton Immanuel						
95	411515103303	Bhavani S						
96	411515103304	K.Gokulnath						
97	411515103305	Karthick D						
98	411515103306	Karthick M						
99	411515103307	Priya M						
100	411515103308	Santhana Krishnan						

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

ADD ON COURSE

SYLLABUS CC008 -Analysis of Structures using STAAD Pro

MODULE 1

Overview of Structural Analysis and Design.Introduction to STAAD Pro. V8i Getting Pro. Workspace.Staad Editor.Structure Wizard.Creating a New Project and Units.Introduction to File, Edit, View, Selection, Geometry, Commands, Analyze, Mode.Introduction to Snap Node/Beam.Insert Node and Add Beam.Introduction to Setup, Geometry, General, Analysis/Print and Design.Assigning Properties.Assigning Supports.Group Specification

MODULE 2

Assigning Load.Structure Analysis.Material Specification.Loading,Introduction to Analysis.Perform Analysis.Overview of Output Page.Pre-analysis and Post-analysis Print

MODULE 3

General Guideline for Design.Column and Beam Design .Reinforced Concrete Design

MODULE 4

Truss Analysis.Roof Truss Analysis.Bridge Truss Analysis.Multi-storied building frame

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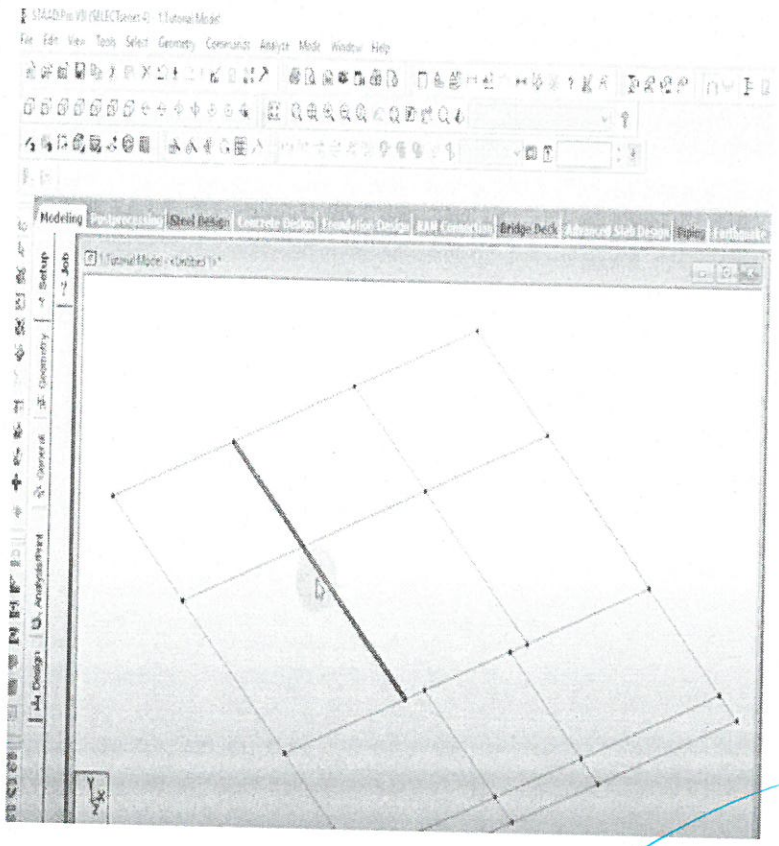
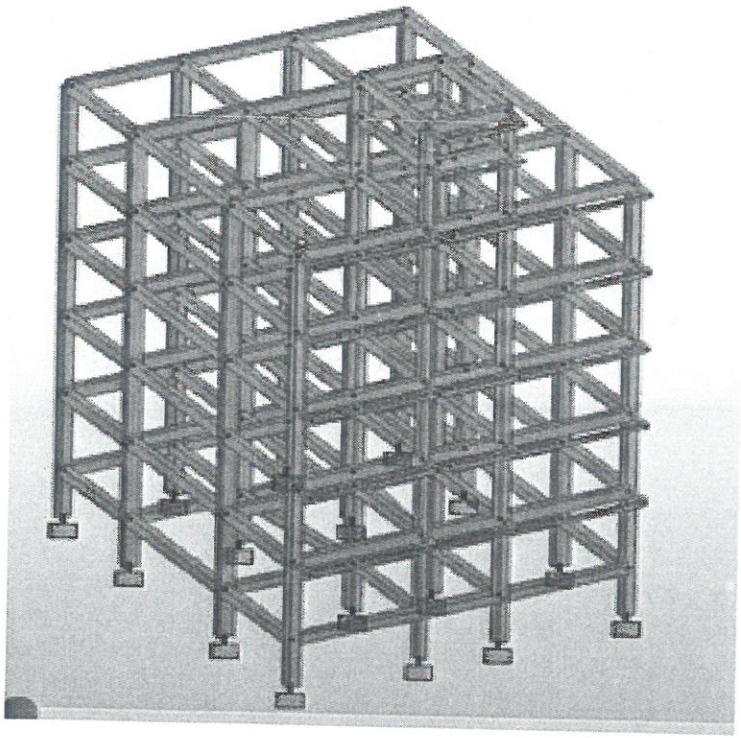
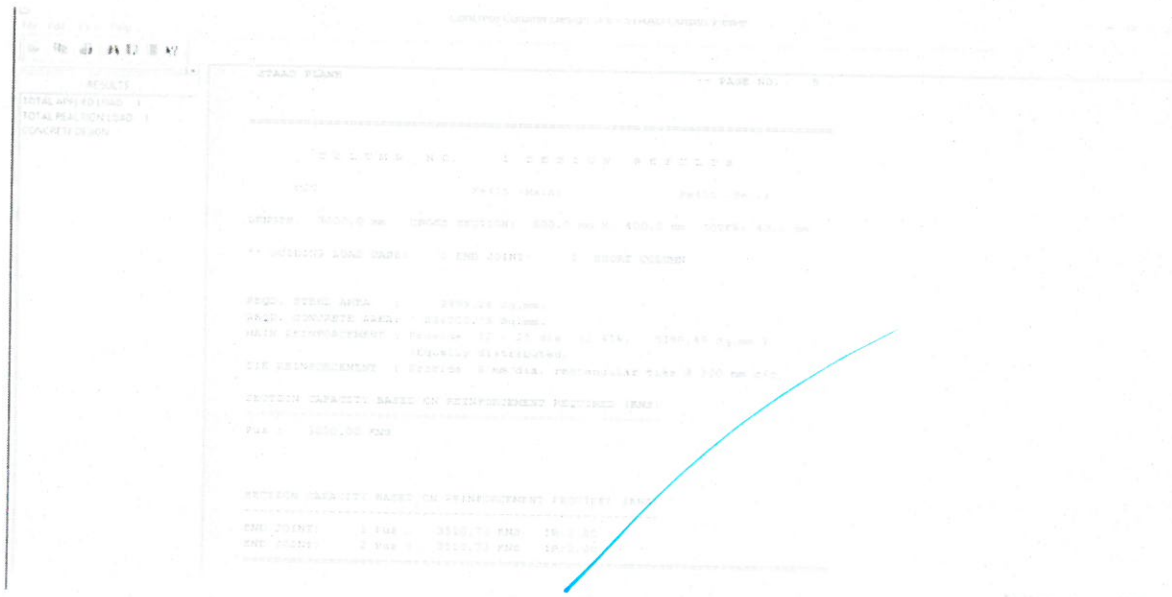

Modeling
Steel Design
Concrete Design
Bridge Deck
Setup
Job
Geometry
Analysis/Print
Design





NAME	M.DINESH
REG. NO	411515103033
YEAR	IV
DEPT	CIVIL
COURSECODE/NAME	CC008-ANALYSIS OF STRUCTURE USING STAADPRO
TEST DATE	15/02/2019

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

PERIIT /CIVIL/Add on Course /2018-2019/Even/02 **Date: 01.02.2019**

CIRCULAR

Department of Civil Engineering is planned to conduct a program titled " **CC009 -Workshop on Building Drawing** for the Academic Year 2018 – 2019 for CIVIL Engineering II year students directed to attend the program.

S.No.	Year	Scheduled Date	session
1	II	11-02-2019 to 14-02-2019	8.30a.m to 3.40p.m

Co-ordinator 1/2/19

Head of the Department

Head of the Department
Department of Civil Engineering
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Mannivakkam, Chennai - 600 048.

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

ADD ON COURSE-TIME TABLE

CC009-Workshop on Building Drawing

S.No	Date	Hours	Topics
1	11.02.2019	1-8	Need for Designing Introduction to CAD/CAM/CAE Concept of Designing and Drafting Angle of projections First angle projection ,Third angle projection ,Orthographic and Isometric views , Quadrants Basic Drafting rules Introduction to AutoCAD Introduction to Autocad.COORDINATE SYSTEMS ,AUTOCAD BASICS.Polyline edit (PEdit),Array (AR) Rectangular Array (ARRAYRECT).Properties (PR) Line properties Match properties
2	12.02.2019	1-8	Multiline Edit (MLEDIT) , Cutting and Welding Multiple,Spline (SPL).Stretch (S) Lengthen (LEN),Block (B) ,Block (B) Base point Object Behavior Insert block (I) Intersection point Scale Rotation. Write block (W) Base point Object Trim (TR) Fence (F),Arc Length (DAR) Dimension Break (DIMBREAK), Diameter Dimension (DDI) M text (M) Text (T) Angle (A) Radius Dimension (DRA) M text (M) Text (T) Angle (A) Jogged Dimension (DJO) M text (M) Text (T) Angle (A) Ordinate Dimension (DOR) X datum (X) Y datum (Y),M text (M) , Text (T) ,Angle (A)
3	13.02.2019	1-8	Dimension Break (DIMBREAK) Auto (A) Manual (M) Remove (R) Multiple (M) Dimension Space (DIMSPACE) Value (Default) Auto (A).Plan Creation Area Object (O) Add Area (A) Subtract Area (S) AutoCAD Design Center (ADC) Tool Palettes (TP) Basic room Dimensions Basic Furniture Dimensions,Elevation Section Detailing Hatch (H) Gradient(GD/GRA) Boundary(BO) ,Text (DT)Justify (J) ,Mtedit (MTED),Table Edit ,Layout (LO) Layout wizard Multi view (MVIEW) View ports (VPORTS) Viewport maximum (VPMAX) Viewport minimum (VPMIN) LAYVPI Model space (MS) Paper space (PS) Model,Tilemode (TI),Attributes (ATT) External reference (XR) Page Setup Manager Plot (Ctrl+P)Sheet set(SSM),Export(EXP) Options (OP) ,Image(IM) Imageadjust Imageattach Imageclip Imagequality Imageframe Title block creation ,Basic AutocaDD plan
4	14.02.2019	1-8	Isometric views Isoplane change Ellipse(EL) ,Isocircle, Isometric practice,3D-MODELING Introduction to AutoCAD 3d Starting three dimensional modelling in AutoCAD Use of three dimensional drawing Types of 3d models ,Creating Solid Models Polysolid Box Wedge Cone Sphere , Cylinder , Torus Pyramid , Helix Presspull Sweep Revolve Loft,3D Operations ,CS icon Dynamic UCS Viewport Creating 3D Models (practice session),Material browser

			Assigning materials □ Assigning selected materials to object □ Basic rendering □ Creating new materials Default light □ Point light Spot light □ Distance light. □ Camera □ Walkthrough □ Motion recorder □ Import □

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Mannivakkam, Chennai - 600 048

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

ADD ON COURSE

CC009 Workshop on Building Drawing

STUDENTS LIST

Second Years		
1	411517103001	K. Ajeeth Kumar
2	411517103002	A. AllampatiBhaskar
3	411517103003	J. Anthony Bala
4	411517103004	R. Arun
5	411517103006	P. Balamurugan
6	411517103007	V. Bojarajan
7	411517103009	V. Dhanraj
8	411517103011	C. Manikandan
9	411517103013	M. Manoj Kumar
10	411517103014	S. Masimalai
11	411517103015	S. Mohamed Yasin
12	411517103016	P. Naresh
13	411517103018	K. Pravin
14	411517103019	J. Preveen
15	411517103020	P. Sakthivel
16	411517103021	S. SathyaPriya
17	411517103022	A. Shruthi
18	411517103023	A. Shwetha

19	411517103024	K. Thamizharasan
20	411517103025	G. Vasanth
21	411517103026	M. Vijai Mohan
22	411517103301	D. Ajith Kumar
23	411517103302	P. Dhamodaran
24	411517103303	N. JashwanthNagaraj
25	411517103305	J.M. JervinRebaario
26	411517103306	G. Santhosh Kumar

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

Workshop on Building Drawing- CC009

ACADEMIC YEAR 2018– 2019

ATTENDANCE SHEET

11.02.2019 to 14.02.2019

Duration of course:32 Hours **Number of students enrolled in the year:26**

Second Years

S. No.	Reg. No.	Name of the Students	11.02.2019	12.02.2019	13.02.2019	14.02.2019
1	411517103001	K. Ajeeth Kumar	Ajeeth	Ajeeth	Ajeeth	Ajeeth
2	411517103002	A. AllampatiBhaskar	Bhaskar	Bhaskar	Bhaskar	Bhaskar
3	411517103003	J. Anthony Bala	Bala	Bala	Bala	Bala
4	411517103004	R. Arun	R. ARUN	R. ARUN	R. ARUN	R. ARUN
5	411517103006	P. Balamurugan	Bala	Bala	Bala	Bala
6	411517103007	V. Bojarajan	Bojan	Bojan	Bojan	Bojan
7	411517103009	V. Dhanraj	Dhanraj	Dhanraj	Dhanraj	Dhanraj
8	411517103010	J. Jayasree	Jayasree	Jayasree	Jayasree	Jayasree
9	411517103011	C. Manikandan	Mani	Mani	Mani	Mani
10	411517103013	M. Manoj Kumar	M. Manoj	M. Manoj	M. Manoj	M. Manoj
11	411517103014	S. Masimalai	Masi	Masi	Masi	Masi
12	411517103015	S. Mohamed Yasin				
13	411517103016	P. Naresh	Naresh	Naresh	Naresh	Naresh
14	411517103018	K. Pravin	K. Pravin	K. Pravin	K. Pravin	K. Pravin
15	411517103019	J. Preveen	Preveen	Preveen	Preveen	Preveen
16	411517103020	P. Sakthivel	Sakthi	Sakthi	Sakthi	Sakthi
17	411517103021	S. SathyaPriya	Sathya	Sathya	Sathya	Sathya
18	411517103022	A. Shruthi	A. Shruthi	A. Shruthi	A. Shruthi	A. Shruthi
19	411517103023	A. Shwetha	Shwetha	Shwetha	Shwetha	Shwetha
20	411517103024	K. Thamizharasan	TH	TH	TH	TH
21	411517103025	G. Vasanth				
22	411517103026	M. Vijai Mohan	Vijai	Vijai	Vijai	Vijai
23	411517103301	D. Ajith Kumar	Ajith Kumar	Ajith Kumar	Ajith Kumar	Ajith Kumar
24	411517103302	P. Dhamodaran	Dhamo	Dhamo	Dhamo	Dhamo
25	411517103303	N. JashwanthNagaraj	Jas	Jas	Jas	Jas
26	411517103305	J.M. JervinRebaario	Jervin	Jervin	Jervin	Jervin
27	411517103306	G. Santhosh Kumar	Santhosh	Santhosh	Santhosh	Santhosh

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018-2019

ADD ON COURSE-SYLLABUS

CC009-Workshop on Building Drawing

Module 1

Need for Designing Introduction to CAD/CAM/CAE Concept of Designing and Drafting Angle of projections First angle projection ,Third angle projection ,Orthographic and Isometric views , Quadrants Basic Drafting rules Introduction to AutoCAD Introduction to Autocad,COORDINATE SYSTEMS ,AUTOCAD BASICS,Polyline edit (PEdit),Array (AR) Rectangular Array (ARRAYRECT),Properties (PR) Line properties Match properties

Module 2

Multiline Edit (MLEDIT) , Cutting and Welding Multiple,Spline (SPL),Stretch (S) Lengthen (LEN),Block (B) ,Block (B) Base point Object Behavior Insert block (I) Intersection point Scale Rotation, Write block (W) Base point Object Trim (TR) Fence (F),Arc Length (DAR) Dimension Break (DIMBREAK), Diameter Dimension (DDI) M text (M) Text (T) Angle (A) Radius Dimension (DRA) M text (M) Text (T) Angle (A) Jogged Dimension (DJO) M text (M) Text (T) Angle (A) Ordinate Dimension (DOR) X datum (X) Y datum (Y),M text (M) , Text (T) ,Angle (A)

Module 3

Dimension Break (DIMBREAK) Auto (A) Manual (M) Remove (R) Multiple (M) Dimension Space (DIMSPACE) Value (Default) Auto (A),Plan Creation Area Object (O) Add Area (A) Subtract Area (S) AutoCAD Design Center (ADC) Tool Palettes (TP) Basic room Dimensions Basic Furniture Dimensions,Elevation Section Detailing Hatch (H) Gradient(GD/GRA) Boundary(BO) ,Text (DT),Justify (J) ,Mtedit (MTED),Table Edit ,Layout (LO) Layout wizard Multi view (MVIEW) View ports (VPORTS) Viewport maximum (VPMAX) Viewport minimum (VPMIN) LAYVPI Model space (MS) Paper space (PS) Model,Tilemode (TI),Attributes (ATT) External reference (XR) Page Setup Manager Plot (Ctrl+P)Sheet set(SSM),Export(EXP) Options (OP) ,Image(IM) Imageadjust Imageattach Imageclip Imagequality Imageframe Title block creation ,Basic AutocaDD plan

Module 4

Isometric views Isoplane change Ellipse(EL) ,Isocircle, Isometric practice,3D-MODELING Introduction to AutoCAD 3d Starting three dimensional modelling in AutoCAD Use of three dimensional drawing Types of 3d models ,Creating Solid Models Polysolid Box Wedge Cone Sphere , Cylinder , Torus Pyramid , Helix Presspull Sweep Revolve Loft,3D Operations ,CS icon Dynamic UCS Viewport Creating 3D Models (practice session),Material browser Assigning materials Assigning selected materials to object Basic rendering Creating new materials Default light Point light Spot light Distance light, Camera Walkthrough Motion recorder Import

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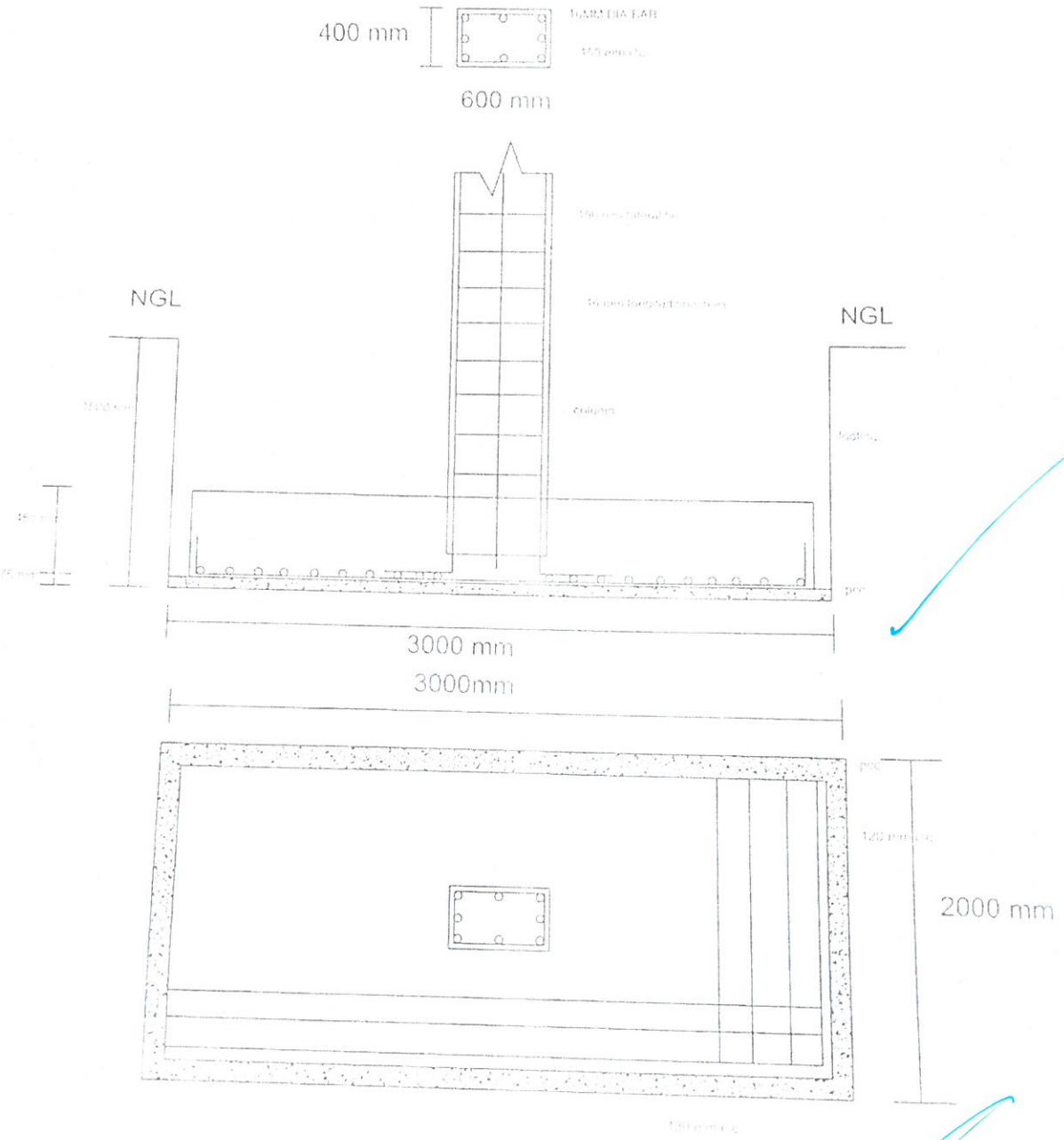
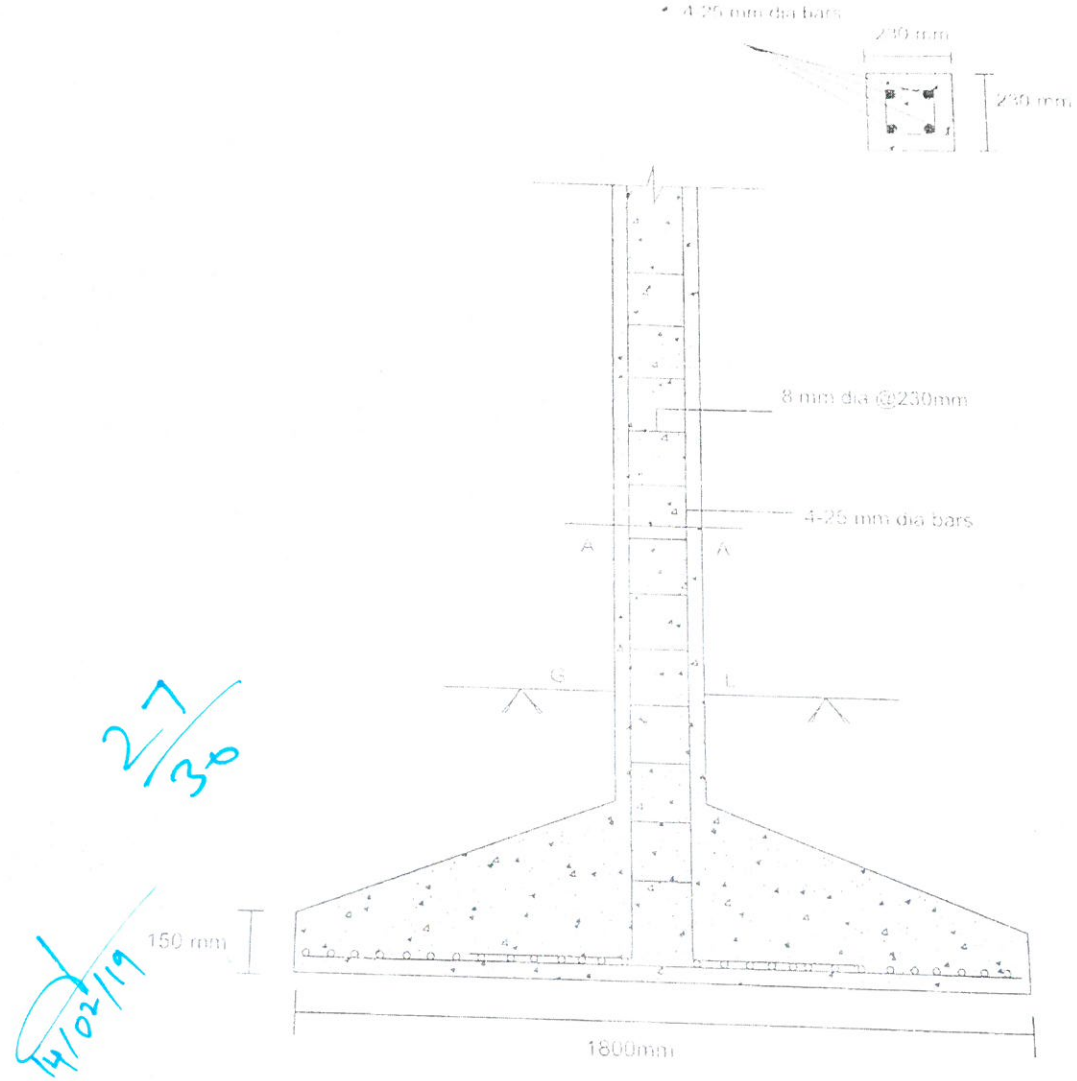


24/30

14/02/19

NAME	V.DHANRAJ
REG. NO	411517103009
YEAR	II
DEPT	CIVIL
COURSECODE/NAME	CC009-WORKSHOP ON BUILDING DRAWING
TEST DATE	14.02.2019



27/30

14/02/19

NAME	S. MASILAMANI
REG. NO	411517103014
YEAR	II
DEPT	CIVIL
COURSECODE/NAME	CC009-WORKSHOP ON BUILDING DRAWING
TEST DATE	14.02.2019

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

Ref: PERIIT /CSE/CC/2018-2019/04 **DATE: 07-07-2018**

CIRCULAR

All the Students are hereby informed that Our College is going to organize ten days in Training in "Java Programming". The intension of this training is that our students should enhance the ability to manage interviews and improve their Skills .So all students are invited to attend this Event.

RESOURCE PERSON	: Mr.V.G.Shanmugam,Technical Trainee. Shan software solutions, Chennai
DATE	: 16-07-2018 TO 20-07-2018 23-07-2018 TO 27-07-2018
TIME	: 8.30 AM – 3.30 PM
VENUE	: CONFERENCE HALL
CODE	: **CS0198**

Revathi.A 7/7/18

Coordinator

Head of the Department

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1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members – CSE Staffs
5. Main – Notice Board

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Computer Science and Engineering

TIME TABLE

Course Code: CS0198 **Year:IV YEAR CSE**

Course Name:JAVA Programming **Session: FN &AN**

Particulars	Session	Topic covered
DATE : 16-07-2018 TO 20-07-2018 **23-07-2018 TO 27-07-2018** **TIME : 8.30 AM – 3.30 PM** **VENUE: CONFERENCE HALL**	FN & AN	Introduction to Java programming, The Java Virtual Machine, Variables and data types, Conditional and looping constructs, Arrays.
	FN & AN	Object-oriented programming with Java Classes and Objects, Fields and Methods, Constructors, Overloading methods, Garbage collection, Nested classes.
	FN & AN	Inheritance, Overriding methods, Polymorphism, Making methods and classes final, Abstract classes and methods, Interfaces. Exception handling with try-throw-catch-finally constructs, The Exception class, The Object class, Cloning objects
	FN & AN	Working with types: Wrapper classes,Enumeration interface. Packages,Packageaccess,Documentation comments. Applets,Configuringapplets,Applet capabilities and restrictions-Basics of AWT and Swing,LayoutManagers,EventHandling,The ActionListenerinterface,Panels,Classes for various controls
	FN & AN	Threads,Synchronization The I/O Package,InputStreamand OutputStreamclasses,ReaderandWriter classes, Basic concepts of networking,Working with URLs,Concepts

HOD/CSE

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INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

Students Name List for JAVA programming(16-07-2018 TO 20-07-2018&23-07-2018 TO 27-07-2018)

S..No.	Register Number	Name of the Student
1.	411515104001	ABILA
2.	411515104002	ADARSH R
3.	411515104003	AJAY SURVE C
4.	411515104007	ANGELINE T
5.	411515104010	ARUNA A
6.	411515104012	BALAYOGASHREE G
7.	411515104014	DEEPAK K
8.	411515104015	DEVARAJAN E
9.	411515104016	DHARMESH M
10.	411515104018	DHEEPIKA R
11.	411515104022	GALI MADHAN KUMAR
12.	411515104024	GEETHANJALI V
13.	411515104026	HARISH V
14.	411515104027	JASMINE A
15.	411515104028	JOHN BETSON J

16.	411515104029	JOSEPH NAVEEN KUMAR S
17.	411515104031	KARTHIKEYAN B
18.	411515104032	KARTHIK RAJA V
19.	411515104035	KEERTHIKA S
20.	411515104036	KEIRON PRANAB T
21.	411515104037	KOWSALYA R
22.	411515104038	KOWSALYA V
23.	411515104041	LIPIYAN K
24.	411515104045	MADHUMITHA V
25.	411515104046	MAHESWARI M
26.	411515104047	MANIKANDAN V
27.	411515104049	MOHAMED ANSARI R
28.	411515104050	MOHAN K
29.	411515104052	MONIKA P M
30.	411515104054	SHASHANKA KOUSTUBH
31.	411515104057	PAVITHRA B
32.	411515104058	PAVITHRA R
33.	411515104059	PRADHAKSHNA B
34.	411515104060	PRAKASH C
35.	411515104061	PRASANTH P
36.	411515104065	PREETHI T
37.	411515104066	PREM VIGNESH R

38.	411515104067	PRIYA S
39.	411515104069	PRIYANKA P
40.	411515104070	PUNEETH SAHADEV H
41.	411515104071	RAMYA R
42.	411515104072	RANJITH KUMAR D
43.	411515104073	RANJITH KUMAR R
44.	411515104075	RONALD LANTON
45.	411515104076	ROSELINE Y
46.	411515104082	SANTHOSH P
47.	411515104083	SANTHOSH KUMAR J
48.	411515104086	SARATH KUMAR S
49.	411515104090	SHAMKUMAR R
50.	411515104091	SHARATH KUMAR L R
51.	411515104092	SHRIHARI P
52.	411515104093	SINDHUJA N
53.	411515104095	SNEHA D
54.	411515104097	SRI LAKSHMIJA R
55.	411515104099	SRI SAI GANGULY T P
56.	411515104100	SUBALAKSHMI M
57.	411515104102	SURESH JUSTIN S
58.	411515104104	SWAPNA K
59.	411515104108	THULASI DASS N

60.	411515104110	UDAYA KIRAN B
61.	411515104112	VENKATESH PRASAD S
62.	411515104113	VIDDYA R
63.	411515104114	VIDHYASRI A
64.	411515104115	VIJAYAKUMAR M
65.	411515104117	VINODHINI M
66.	411515104118	YESHWANTH S
67.	411515104004	AKASH K
68.	411515104005	AKASH R
69.	411515104006	AKHIL BABU E H
70.	411515104008	ANUMITHA M
71.	411515104009	ARAVIND KRISHNAN V S R
72.	411515104013	BUVANESH C I
73.	411515104017	DHARSHAN D
74.	411515104019	DINESH K
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77.	411515104023	GEETHA R
78.	411515104025	HANUMESHPRIYA M
79.	411515104030	KARTHI V V
80.	411515104033	KAVIN C
81.	411515104039	KUMARAVEL V

82.	411515104040	LINGESH S
83.	411515104044	LOKESH N K
84.	411515104048	MARIA ROGER KALVIN
85.	411515104056	NIVETHA R S
86.	411515104062	PRAVEEN M
87.	411515104063	PRAVEENRAJ M
88.	411515104064	PRAVIN RAJ C
89.	411515104068	PRIYANGA S
90.	411515104077	ROSHINE E
91.	411515104078	SABAREESH S V
92.	411515104079	SANGEETHA I
93.	411515104080	SANGEETHA S R
94.	411515104081	SANTHOSH M
95.	411515104084	SARAN RAJ S
96.	411515104085	SARANYA.L
97.	411515104088	SAVITHA R
98.	411515104089	SHAJI S
99.	411515104094	SIVAKUMAR S
100.	411515104101	SUJATHA S
101.	411515104103	SURIYAA T
102.	411515104105	TAMILARASAN S
103.	411515104106	THANGA RAMANUJAN K
104.	411515104107	THANIGAIVASAN K

105.	411515104116	VIJAYALAKSHMI M
106.	411515104119	YOGESHWARAN S
107.	411515104301	K.PREETHI
108.	411515104004	AKASH K
109.	411515104005	AKASH R
110.	411515104006	AKHIL BABU E H
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112.	411515104009	ARAVIND KRISHNAN V S R
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118.	411515104023	GEETHA R
119.	411515104025	HANUMESHPRIYA M
120.	411515104030	KARTHI V V

Co-ordinator

HOD

PERI
INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

Attendance Report for JAVA programming(16-07-2018 TO 20-07-2018&23-07-2018 TO 27-07-2018)
CODE:CS0198

S..No.	Register Number	Name of the Student	16-07-18	17-07-18	18-07-18	19-07-18	20-07-18	16-07-18	17-07-18	18-07-18	19-07-18	20-07-18
1.	411515104001	ABILA										
2.	411515104002	ADARSH R										
3.	411515104003	AJAY SURVE C										
4.	411515104007	ANGELINE T										
5.	411515104010	ARUNA A										
6.	411515104012	BALAYOGASHREE G										
7.	411515104014	DEEPAK K										
8.	411515104015	DEVARAJAN E										
9.	411515104016	DHARMESH M										
10.	411515104018	DHEEPIKA R										
11.	411515104022	GALI MADHAN KUMAR										
12.	411515104024	GEETHANJALI V										
13.	411515104026	HARISH V										
14.	411515104027	JASMINE A										
15.	411515104028	JOHN BETSON J										

16.	411515104029	JOSEPH NAVEEN KUMAR S									
17.	411515104031	KARTHIKEYAN B									
18.	411515104032	KARTHIK RAJA V									
19.	411515104035	KEERTHIKA S									
20.	411515104036	KEIRON PRANAB T									
21.	411515104037	KOWSALYA R									
22.	411515104038	KOWSALYA V									
23.	411515104041	LIPIYAN K									
24.	411515104045	MADHUMITHA V									
25.	411515104046	MAHESWARI M									
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27.	411515104049	MOHAMED ANSARI R									
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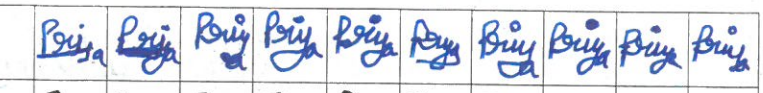
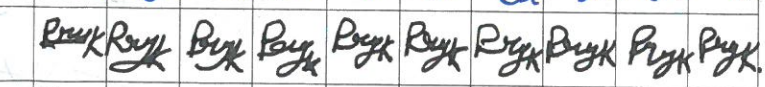
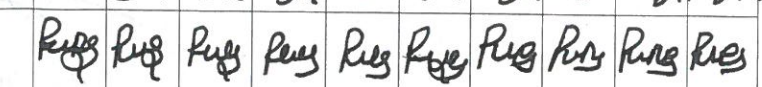
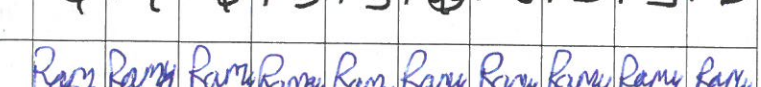
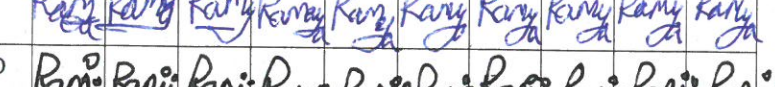
30.	411515104054	SHASHANKA KOUSTUBH									
31.	411515104057	PAVITHRA B									
32.	411515104058	PAVITHRA R								A	
33.	411515104059	PRADHAKSHNA B									
34.	411515104060	PRAKASH C	A								
35.	411515104061	PRASANTH P									
36.	411515104065	PREETHI T									
37.	411515104066	PREM VIGNESH R									

38.	411515104067	PRIYA S	
39.	411515104069	PRIYANKA P	
40.	411515104070	PUNEETH SAHADEV H	
41.	411515104071	RAMYA R	
42.	411515104072	RANJITH KUMAR D	
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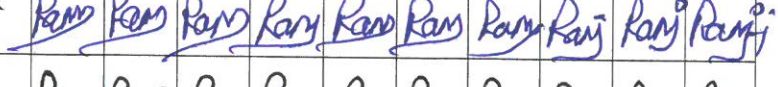
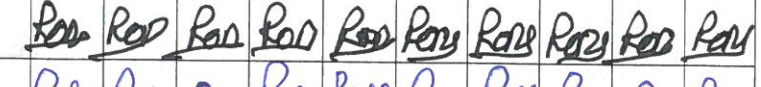
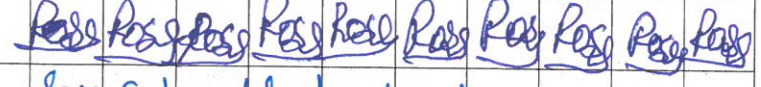
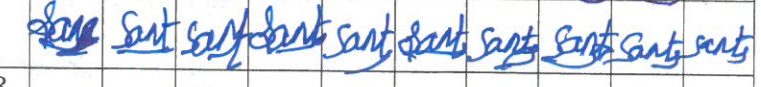
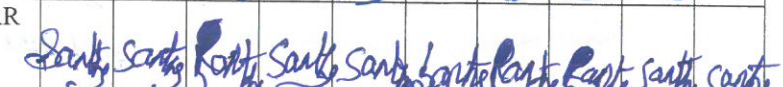
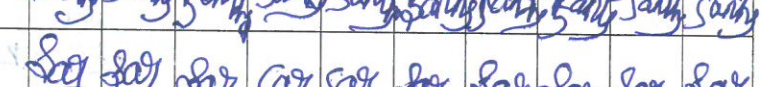
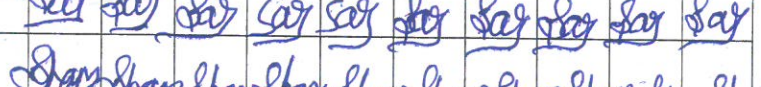
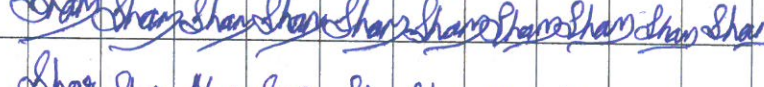
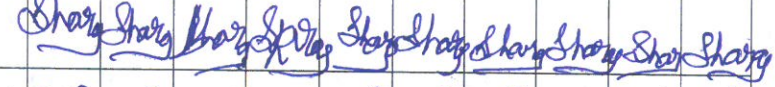
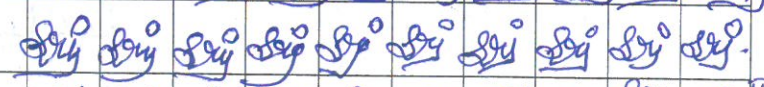
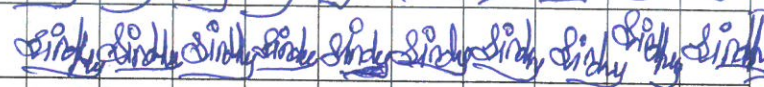
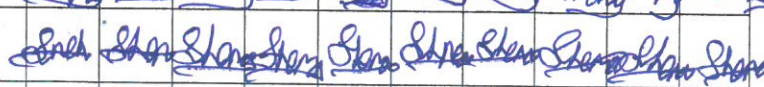
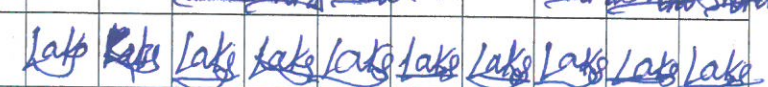
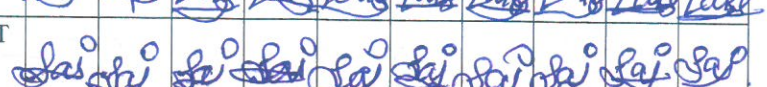
44.	411515104075	RONALD LANTON	
45.	411515104076	ROSELINE Y	
46.	411515104082	SANTHOSH P	
47.	411515104083	SANTHOSH KUMAR J	
48.	411515104086	SARATH KUMAR S	
49.	411515104090	SHAMKUMAR R	
50.	411515104091	SHARATH KUMAR L R	
51.	411515104092	SHRIHARI P	
52.	411515104093	SINDHUJA N	
53.	411515104095	SNEHA D	
54.	411515104097	SRI LAKSHMIJA R	
55.	411515104099	SRI SAI GANGULY T P	
56.	411515104100	SUBALAKSHMI M	
57.	411515104102	SURESH JUSTIN S	
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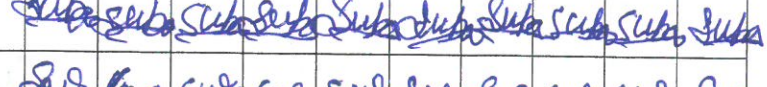
59.	411515104108	THULASI DASS N	

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102.	411515104105	TAMILARASAN S	
103.	411515104106	THANGA RAMANUJAN K	
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119.	411515104025	HANUMESHPRIYA M										
120.	411515104030	KARTHI V V										

Co-ordinator

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

SYLLABUS

MODULE 1: INTRODUCTION TO JAVA PROGRAMMING

Introduction to Java programming-The Java Virtual Machine-Variables and data types-Conditional and looping constructs-Arrays.

MODULE II: OBJECT-ORIENTED PROGRAMMING WITH JAVA

Object-oriented programming with Java Classes and Objects-Fields and Methods-Constructors-Overloading methods-Garbagecollection-Nested classes.

MODULE III: ADVANCED JAVA CONCEPTS

Inheritance-Overriding methods-Polymorphism-Making methods and classes final-Abstract classes and methods-Interfaces. Exception handling with try-throw-catch-finally constructs-The Exception class-The Object class-Cloning objects

MODULE IV: JAVA ADVANCED FEATURES

Working with types: Wrapper classes,Enumeration interface.-Packages:Package access.Documentation comments. Applets: Configuring applets, Applet capabilities and restrictions- Basics of AWT and Swing-Layout Managers-Event Handling- The Action Listener interface-Panels-Classes for various controls

MODULE V : JAVA MULTITHREADING, I/O, AND NETWORKING ESSENTIALS

Threads-Synchronization-The I/O Package-Input Stream and Output Stream classes-Reader and Writer classes- Basic concepts of networking-Working with URLs-Concepts

Coordinator **HOD/CSE**

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

FEEDBACK FORM

DATE: 27/07/2018

Name of the Student: Ajith.M
Register No: 211518104006
Year/Semester 3rd year
Course Code: CS018
Course Name: Java programming

1. What is your assessment of the course material?

The course material very good.

2. How effective was the instructor's delivery of the content?

The delivery content very cleared Explain

3. Rate the overall quality of the program.

(four star)

4. Would you suggest this program to your peers or underclassmen?

Yes

5. Suggestions for enhancement, if any:

No Suggestion

Signature of the Student

Ajith

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

FEEDBACK FORM

ACADEMIC YEAR 2018-2019

DATE: 27.07.2018

Name of the Student: AVINASH.M
Register No: 411518104015
Year/Semester III
Course Code: CS018
Course Name: JAVA PROGRAMING

1. What is your assessment of the course material?

   The assesment of the course material. It is very useful for exam

2. How effective was the instructor's delivery of the content?

   The instructor delivery of the content is very useful

3. Rate the overall quality of the program.

   Out of 5 star

4. Would you suggest this program to your peers or underclassmen?

   Yes, I suggest this program to my underclassmen

5. Suggestions for enhancement, if any:

   No.

Signature of the Student

Avinash.

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INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

Ref: PERIIT /CSE/CC/2018-2019/03 **DATE: 05-07-2018**

CIRCULAR

This is to inform that the following enrolled students will have PYTHON PROGRAMMING training on the following scheduled date and all of you attend regularly and get benefits of this training. This training will be held on the following venue.

DATE : 11-09-2018 TO 15-09-2018

TIME : 8.30 AM – 3.30 PM

PLACE: CONFERENCE HALL

CODE: CS019

S. Vinitha
Coordinator

Head of the Department

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members – CSE Staffs
5. Main – Notice Board

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Computer Science and Engineering

TIME TABLE

Course Code: CS019

Year: Ist year students

Course Name:Python Programming -Workshop

Session: FN &AN

Particulars	Session	Topic covered
DATE : 11-09-2018 TO 14-09-2018 **TIME : 8.30 AM – 3.30 PM** **VENUE: CONFERENCE HALL**	FN &AN	**UNIT I ALGORITHMIC PROBLEM SOLVING** Algorithms, building blocks of algorithms (statements, state, control flow, functions), notation (pseudo code, flow chart, programming language), algorithmic problem solving, simple strategies for developing algorithms (iteration, recursion).
	FN &AN	**UNIT II DATA, EXPRESSIONS, STATEMENTS** Python interpreter and interactive mode; values and types: int, float, boolean, string, and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; modules and functions, function definition and use, flow of execution, parameters and arguments.
	FN &AN	**UNIT III CONTROL FLOW, FUNCTIONS** Conditionals: Boolean values and operators, conditional (if), alternative (if-else), chained conditional (if-elif-else); Iteration: state, while, for, break, continue, pass; Fruitful functions: return values, parameters, local and global scope, function composition, recursion; Strings: string slices,immutability, string functions and methods, string module; Lists as arrays.
	FN &AN	**UNIT IV LISTS, TUPLES, DICTIONARIES** Lists: list operations, list slices, list methods, list loop, mutability, aliasing, cloning lists, list parameters; Tuples: tuple assignment, tuple as return value; Dictionaries: operations and methods; advanced list processing – list comprehension.
	FN &AN	**UNIT V FILES, MODULES, PACKAGES** Files and exception: text files, reading and writing files, format operator; command line arguments, errors and exceptions, handling exceptions, modules, packages; Illustrative programs: word count.

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Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

Students Name List for PYTHON PROGRAMMING (11.09.2018 to 14.09.2018)

S..No.	Register Number	Name of the Student
1.	411518104001	AAKASH.B
2.	411518104002	ABINAYA.S
3.	411518104003	ABISHAKE GJ
4.	411518104004	ADHARSH N
5.	411518104005	AISHWARYA B
6.	411518104006	AJITH
7.	411518104007	AKHIL KUMAR M B
8.	411518104008	AKILA S
9.	411518104009	AL SHAJI.I
10.	411518104010	ANAND.C
11.	411518104011	ANANTHI.N
12.	411518104012	ANIRUDDH.R.K.
13.	411518104013	ANITHA.S
14.	411518104014	ASHWIN BALAJI.S
15.	411518104015	AIVINASH.M
16.	411518104016	BALARISHI S

17.	411518104017	BHUVANESHWARI.V
18.	411518104018	CHARAN M
19.	411518104020	CHITTIPIREDDY AKASH.C
20.	411518104021	DALISH PRINCA WILLIAM
21.	411518104022	DELHI BABU. R
22.	411518104023	DESIREDDYGARI CHANIKYA
23.	411518104024	DHANUSH.B
24.	411518104026	GANESH G
25.	411518104027	GOKUL.S
26.	411518104028	GOKULA KRISHNAN.R
27.	411518104029	HEMAKUMAR.G
28.	411518104030	GUHAN.P
29.	411518104031	GURUNATH M
30.	411518104032	HEMALATHA.V
31.	411518104033	HEMAPRIYA THARSHAN.J
32.	411518104034	JAGRITI CHATTERJEE
33.	411518104035	JAYANTH.S
34.	411518104036	JAYARAM.G.S
35.	411518104037	JOTHI KRISHNAN.K
36.	4115181044039	KARTHIK.N
37.	411518104040	KASTHURI. A
38.	411518104041	KEERTHANA. S
39.	411518104042	KOTA VENKATA MADHAVA REDDY
40.	411518104043	LOGESH N

41.	411518104044	JASWANTH REDDY.M
42.	411518104045	MAFISHYA JASPHER.J
43.	411518104046	MALATHI.A
44.	411518104048	MOHAMED KAMALUDEEN.M
45.	411518104049	MOHAMMED ALAMEEN.A
46.	411518104050	MOHAMMED IBRAHIM M
47.	411518104051	MOHANASELVI S
48.	411518104052	MOKINDER S
49.	411518104053	MONISHWER ROSHAN B N
50.	411518104107	THIRUVENGADAM.S
51.	411518104301	NARMADHA.S
52.	411518104019	CHATHURYA S
53.	411518104054	MUGESH P
54.	411518104055	NANTHINI K
55.	411518104056	NAVANEETHA KRISHNAN M
56.	411518104057	NAVEEN B
57.	411518104058	NIJANTHAN D
58.	411518104060	NITHISH KUMAR K
59.	411518104061	NITHYA PRAKASH A
60.	411518104062	NITHYA SHREE S
61.	411518104063	NIVETHA M
62.	411518104064	NIZAMUDDIN S
63.	411518104065	PALAVAKAM CHARAN
64.	411518104066	PARTHIPAN M

89.	411518104095	SHWETHA P T
90.	411518104096	SIBI A R
91.	411518104097	SONIA P V
92.	411518104098	SOPHIA DAVID
93.	411518104099	SOWMIYA J
94.	411518104100	SUBINRAJ C
95.	411518104101	SUGAN M D
96.	411518104102	SUGANYA R
97.	411518104103	SWETHA G
98.	411518104104	TARUN S
99.	411518104105	THABEETHAL AGNES A
100.	411518104106	THENMOZHI V
101.	411518104108	VALLURU DEEKSHITHA
102.	411518104109	VIGNESH R
103.	411518104110	VIGNESH S
104.	411518104111	VIKSHARA K
105.	411518104112	VINODHKUMAR R
106.	411518104114	YOGESH K
107.	411518104115	YOGESHWARI N
108.	411518104125	YUVASHRI U
109.	411518104302	NAVEEN C
110.	411518104701	CATHERINE RUTH W D

Co-ordinator

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

PERI
INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

Attendance Report for PYTHON PROGRAMMING (11.09.2018 to 14.09.2018)

S..No.	Register Number	Name of the Student	11.09.18	12.09.18	13.09.18	14.09.18
1.	411518104001	AAKASH.B				
2.	411518104002	ABINAYA.S				
3.	411518104003	ABISHAKE GJ				
4.	411518104004	ADHARSH N			A	
5.	411518104005	AISHWARYA B				
6.	411518104006	AJITH				
7.	411518104007	AKHIL KUMAR M B		A		
8.	411518104008	AKILA S				
9.	411518104009	AL SHAJI.I				
10.	411518104010	ANAND.C				
11.	411518104011	ANANTHI.N				
12.	411518104012	ANIRUDDH.R.K.				
13.	411518104013	ANITHA.S				
14.	411518104014	ASHWIN BALAJI.S				
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19.	411518104020	CHITTIPIREDDY AKASH.C				
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21.	411518104022	DELHI BABU. R				
22.	411518104023	DESIREDDYGARI CHANIKYA				
23.	411518104024	DHANUSH.B				
24.	411518104026	GANESH G				
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33.	411518104035	JAYANTH.S				
34.	411518104036	JAYARAM.G.S				
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Co-ordinator

HOD

Dr. R. PALSON KENNEDY, M.E., Ph.D.
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PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

SYLLABUS

MODULE 1: ALGORITHMIC PROBLEM SOLVING

Algorithms, building blocks of algorithms (statements, state, control flow, functions), notation (pseudo code, flow chart, programming language), algorithmic problem solving, simple strategies for developing algorithms (iteration, recursion). Illustrative problems: find minimum in a list, insert a card in a list of sorted cards, guess an integer number in a range, Towers of Hanoi.

MODULE II: DATA, EXPRESSIONS, STATEMENTS

Python interpreter and interactive mode; values and types: int, float, boolean, string, and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; modules and functions, function definition and use, flow of execution, parameters and arguments; Illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points.

MODULE III: CONTROL FLOW, FUNCTIONS

Conditionals: Boolean values and operators, conditional (if), alternative (if-else), chained conditional (if-elif-else); Iteration: state, while, for, break, continue, pass; Fruitful functions: return values, parameters, local and global scope, function composition, recursion; Strings: string slices,immutability, string functions and methods, string module; Lists as arrays. Illustrative programs: square root, gcd, exponentiation, sum an array of numbers, linear search, binary search.

MODULE IV: LISTS, TUPLES, DICTIONARIES

Lists: list operations, list slices, list methods, list loop, mutability, aliasing, cloning lists, list parameters; Tuples: tuple assignment, tuple as return value; Dictionaries: operations and methods; advanced list processing – list comprehension; Illustrative programs: selection sort, insertion sort, mergesort, histogram.

MODULE V :FILES, MODULES, PACKAGES

Files and exception: text files, reading and writing files, format operator; command line arguments, errors and exceptions, handling exceptions, modules, packages; Illustrative programs: word count, copy file

Coordinator **HOD/CSE**

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

FEEDBACK FORM

DATE: 14/09/2018

Name of the Student: Mukesh. P
Register No: 411518104054
Year/Semester III V
Course Code: CS019
Course Name: Python Programming

1. What is your assessment of the course material?

Assessment of the course material is Oldvanced.

2. How effective was the instructor's delivery of the content?

The instructor delivers the content very clearly.

3. Rate the overall quality of the program.

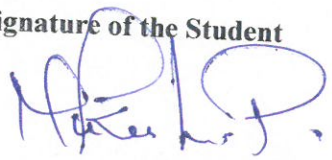
Good (4 Star)

4. Would you suggest this program to your peers or underclassmen?

Yes

5. Suggestions for enhancement, if any:

Signature of the Student



PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019

FEEDBACK FORM

DATE: 14.9.2018

Name of the Student: Sonia. Pv
Register No: 411518104097
Year/Semester III / V
Course Code: CS091
Course Name: ~~Python~~ Python Programming

1. What is your assessment of the course material?

Assessment of the course material is advanced.

2. How effective was the instructor's delivery of the content?

The instructors delivery of the content very clearly

3. Rate the overall quality of the program.

Good (5 stars)

4. Would you suggest this program to your peers or underclassmen?

Yes

5. Suggestions for enhancement, if any:

No suggestions.

Sona. A
Signature of the Student

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
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PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2018-2019

Ref: PERIIT /ECE/Add-On Course/2018-19/01 **Date: 03.07.2018**

CIRCULAR

The Electronics and Communication Engineering Department of PERI IT has planned to conduct Add-on course titled "Embedded building blocks using Arduino Hands On for Young" for the Academic Year 2018-2019 for II,III & IV year ECE students.

CODE:ECA018

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II,III,IV	07.07.2018 -13.07.2018	10.00AM to 11.45AM	12.30PM to 3.30PM

3/7/18

Co-ordinator

Head of the Department

Head of the Department
ELECTRONICS AND COMMUNICATION ENGINEERING
PERI INSTITUTE OF TECHNOLOGY
CHENNAI - 600 048.

Copy To:

1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members -ECE
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TIME TABLE

Course Code: EC A018 **Year:II,III & IV**

Course Name: Embedded Building blocks using Arduino Hands on for Young

Session: FN & AN

S.No	DATE	HOURS	TOPIC
1	07.07.18	3rd-8th	What is Embedded System, Main Components of Embedded Systems, Constraints of Embedded System, Power dissipation.Embedded System Classifications(Small Scale,Medium Scale, Sophisticated) and its Components Processors:
2	09.07.18	3rd-8th	General purpose, Single purpose,Application Specific, Concepts of microprocessor and microcontroller, and other Elements of Embedded System
3	10.07.18	3rd-8th	Microcontrollers, Programming Microcontrollers, Arduino Platform, The Boards, The Anatomy of an Arduino Board, The Development Environment.
4	11.07.18	3rd-8th	Learning about Analog, Digital, Power, Other Pins, External/USB power supply, reset button, and other components of Arduino Board.Arduino Development Environment: Arduino Software, Different menus and Serial Monitor of Arduino IDE.
5	12.07.18	3rd-8th	Acquiring the skills for writing Arduino Sketches, working with examples, Interfacing some led, switch, Potentiometer with Arduino.Analog and Digital Sensors,
6	13.07.18	3rd-8th	Connecting different sensors such as: Humidity, Heat/Temperature, etc. to Arudino Board.Working on LCD monitor, Reading Various Sensor data on Serial Monitor and LCD Display Actuators, Relay Switch, Servo Motor, Putting Things Together, Sensing the World.

Coordinator **HOD/ECE**

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2018-2019
II/ECE

S.NO.	REG. NO	STUDENT NAME
1	411517106001	AAKASH C.S
2	411517106002	AAKASH RAJ S
3	411517106003	ABDULLA A
4	411517106004	AGNISHA V.
5	411517106005	AILEEN MERCYBELL A
6	411517106006	AKASH S
7	411517106008	ANNAPUREDDY DHANA LAKSHMI A
8	411517106009	ARASAVALLI TEJA DURGA SAI S.
9	411517106010	ARUN K.S.
10	411517106011	ARUNESHWARAN M
11	411517106012	ASHIKA K
12	411517106013	BALAJI N
13	411517106014	VAMSI KRISHNA B.
14	411517106015	BHARATH BALAJI R
15	411517106016	BOYA VENKATA RAKESH B.
16	411517106018	CHINTALA.SUPRIYA S.
17	411517106019	CHUKKA MONICA B.
18	411517106020	DEEPIKA M.
19	411517106021	DELLI GANESH G
20	411517106022	DINESH V
21	411517106023	DIVYA PRIYA R.
22	411517106024	EURO SRI M.
23	411517106025	GADIKOTA DEEKSHITHA G.

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2018-2019
II/ECE

24	411517106026	GADI MANO VARSHITH G.
25	411517106027	GANESH KARAN K
26	411517106028	GAYATHRI K
27	411517106029	GNANAPRASATH L
28	411517106030	GUPENDHIRAN S
29	411517106031	GURRALA HARI R.
30	411517106032	GURUDHARSAN B
31	411517106033	HARIHARAN K
32	411517106034	HARIPRIYA B.
33	411517106035	ILANGO M
34	411517106036	JAIGANESH S
35	411517106038	JAVANGULA MANICHAND J
36	411517106040	JOTHIKA A
37	411517106041	KALAIVANI K
38	411517106042	KAMALEESHWAR M
39	411517106043	KAMESH M
40	411517106044	KAMESH R
41	411517106045	KANICKAI RAJ J
42	411517106046	KARTHIC B
43	411517106047	KARTHIKEYAN A
44	411517106048	KATHIRAVAN G
45	411517106049	KAVIN J
46	411517106051	KEERTHANA L
47	411517106052	KEERTHI RAJAN A.S

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2018-2019
II/ECE

48	411517106053	SASIDHAR NAIDU K
49	411517106054	KISHORE KUMAR M
50	411517106056	KRISHNARAJ V
51	411517106057	KUMARAN J
52	411517106058	LAKSHMI AISHWARYA R.
53	411517106059	LEENA S
54	411517106060	LOGESH S
55	411517106061	LOGESHWARI G.
56	411517106062	LOKESHKUMAR M.
57	411517106063	LOKESH KUMAR G
58	411517106064	LOKESHWARAN P
59	411517106065	MADHAN RAJ P.
60	411517106066	MANIBHARATHI S.
61	411517106067	MANISHA V.
62	411517106068	MARY K
63	411517106069	MOHAMMED SHAARIF K
64	411517106070	MOHANA N
65	411517106071	MONISHA M.
66	411517106072	KRANTHI KUMAR N
67	411517106076	KIRAN KUMAR REDDY O.
68	411517106077	PADMASHREE M.
69	411517106079	PRADEEP K.V
70	411517106081	PRAVEEN S
71	411517106082	RAGAVENDER S

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2018-2019
II/ECE

72	411517106083	RAJA SHREE B
73	411517106084	RAKINI C.
74	411517106085	RAMAPRAKASH G.
75	411517106086	RAVEEN KUMAR M
76	411517106087	RUPA SRI V M
77	411517106088	SAI SRUTHI K
78	411517106089	SANDHIYA V
79	411517106090	SANJAY S
80	411517106091	SANTHANA KARTHICK D
81	411517106092	SELVA DHARSHINI V
82	411517106093	SELVA SOORIYA S
83	411517106094	SHANTHI V.
84	411517106095	SHARON GRACE BETSY G
85	411517106096	SHESHI KUMAR G.R
86	411517106097	SHIVAHARI P
87	411517106098	SIVA KUMAR S
88	411517106099	SIVA SARAVANAN K
89	411517106101	SRIRAM E.
90	411517106102	SUBALAKSHMI H
91	411517106104	UMA MAGHESWARI K
92	411517106105	YAMINI CHOWDARY U
93	411517106106	VALLARASU R
94	411517106107	VASANTH KUMAR.K
95	411517106108	VIGNESH A

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ECE
ACADEMIC YEAR 2018-2019
II/ECE

96	411517106109	VIGNESH P
97	411517106110	VIJAYALAKSHMI G
98	411517106111	VIJITHRA V
99	411517106112	VINODHINI S
100	411517106113	VUNNAM SUCHARITHA V.
101	411517106114	YAKESH C
102	411517106115	YAZHIR ARAFATH A
103	411517106301	SUDALAI MUTHU
104	411517106302	SURYA
105	411517106303	VIGNESH . L

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S.NO.	REG. NO	STUDENT NAME
1	411516106003	ANNIE MUTHABARANAM A
2	411516106005	ARSHAD AHMED M D
3	411516106006	ARUL KUMAR S
4	411516106010	ASRAF A.
5	411516106012	BHUVANAA C.
6	411516106013	DANIEL ANCING E
7	411516106015	DEVANAND M.
8	411516106022	IYYANARAPPAN M
9	411516106023	JACKLIN EMILDA S.
10	411516106026	JAYASHREE S.
11	411516106027	KEERTHANA C.K
12	411516106028	KESHAV KUMAR J.
13	411516106029	KIRTHIKA S.
14	411516106032	LOKESHWARAN B.
15	411516106033	MAHENDRA A
16	411516106034	MAHESH KUMAR G
17	411516106035	MALATHY T.
18	411516106037	MANJU BHARKAVI M
19	411516106038	MARIA THEENA L.T
20	411516106041	NIVAS A.T
21	411516106042	NIVETHA J.
22	411516106043	NIVETHA M

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23	411516106044	PAVITHRA R
24	411516106048	PRETHI SAI L.
25	411516106049	RADHIKA G
26	411516106050	RAGINI J
27	411516106051	RAJESH S
28	411516106052	RAMYA S
29	411516106053	RANJITH SREEKAR A.G
30	411516106054	RIYAZ AHAMED A
31	411516106055	SANDHYA M
32	411516106056	SANTHOSH M
33	411516106057	SHIVALI ANGRAL
34	411516106058	SOWMYA S.
35	411516106062	UMA SHANKAR R
36	411516106064	VIGNESH N.
37	411516106301	BHAVANA T
38	411516106302	KANCHANA A
39	411516106303	KOYALAMUDI SAI KRISHNA
40	411516106307	YUVANSHANKAR P.D
41	411516106701	ACHANTA TRINADH KUMAR A
42	411516106001	AKASH B.
43	411516106008	ARUNACHALAM K
44	411516106009	ASIF ALI A
45	411516106011	BALAJI K

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46	411516106014	DEEN KUMARAN V
47	411516106016	DILIP KUMAR T.
48	411516106018	GOWRI S.
49	411516106019	HARIHARAN C
50	411516106021	HENRY SOLOMON J
51	411516106024	JAGAN L.
52	411516106025	JAI PRAKASH V.
53	411516106030	KIRUBHAKARAN M.
54	411516106040	NAVEENKUMAR V
55	411516106045	POORNIMA PRIYADHARSHINI J
56	411516106046	PRAVEEN U.
57	411516106047	PRAVEEN.R.S.NAIR R.S
58	411516106059	SUBHASH S
59	411516106060	SUDHAKARAN G.
60	411516106061	SURYA PRAKASH K
61	411516106063	VAIRAMUTHU K
62	411516106065	VIJAYA SUNDARAM A.G
63	411516106066	VIMAL KUMAR R
64	411516106067	VIMAL KUMAR S
65	411516106069	VISHALI K.
66	411516106070	YOGESHWAR S
67	411516106304	SASI KUMAR M

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S.NO.	REG. NO	STUDENT NAME
1	411515106001	ABDUL HAI H
2	411515106002	ABINESH D
3	411515106003	ABINESH AYJITH R C
4	411515106004	ABIRAMI A
5	411515106005	AJAY SOBI S
6	411515106006	AKSHARAKAIRALI
7	411515106007	ANNES FATHIMA A
8	411515106008	ARULJOTHI N
9	411515106009	ASHIQ MOHAMMED M
10	411515106010	BANU PRIYA M
11	411515106011	BAWYA M
12	411515106012	BHAVANI D
13	411515106013	BHEEMA NASRIN
14	411515106014	CHARUMATHI T
15	411515106015	DEEPIKA S
16	411515106016	DEEPTHI K
17	411515106017	DEERAJ MANJARAY R
18	411515106019	DINESH A
19	411515106020	GANESH KUMAR K
20	411515106021	GOKUL KRISHNAN C
21	411515106022	GOKULA RAJA K
22	411515106024	HEMAMALINI D

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23	411515106025	INDRA D
24	411515106026	JAYASHREE S
25	411515106027	JAYASHREE R
26	411515106028	JOHN DIWAKAR S
27	411515106029	KALAIARASI J
28	411515106030	KAMINI D
29	411515106031	KARTHIKEYAN D
30	411515106032	KARTHIKEYAN R
31	411515106033	KATHERIN S
32	411515106034	KAVIYA E
33	411515106035	KEERTHIGA R
34	411515106036	KEERTHIKA P
35	411515106037	KISHORE B
36	411515106038	KISHORE S
37	411515106039	KRISHNA S
38	411515106040	KUMARAN P
39	411515106041	LAVANYA A
40	411515106042	MADHAN KUMAR S
41	411515106043	MANIKANDAN B
42	411515106044	MANIKANDAN S
43	411515106045	MUTHARASI A M
44	411515106046	MYTHILY
45	411515106047	NAGANANDHINI G

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46	411515106049	NAUFAL MOHAMMED HABI B
47	411515106050	NAVEEN KUMAR R
48	411515106051	NIKITHA R
49	411515106052	NIVEDHA L
50	411515106053	NIVETHA JENIFER
51	411515106054	PARTHIBAN GANGAA
52	411515106055	PERIYANAYAKI G
53	411515106056	PONSELVAPRIYA B
54	411515106057	PRADEEPA E
55	411515106058	PRADEEPA P
56	411515106059	PRAKASH M (07.08.1997)
57	411515106061	PRAVALIKA P
58	411515106062	PRAVIN JYOTI B
59	411515106063	PRIYADHARSHNI T
60	411515106064	PRIYANGA G
61	411515106065	PRIYANKA P
62	411515106066	RAGUL S
63	411515106067	RAJKUMAR M
64	411515106068	RAMYA V
65	411515106069	RANJITH S
66	411515106070	SASHIKUMAR R
67	411515106071	SETHUPATHY S

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68	411515106072	SHARMILA C
69	411515106074	SINDHUJOTHI R
70	411515106075	SIRAJUDDIN G
71	411515106076	SIVAKUMAR G
72	411515106078	SOWMIYA S
73	411515106079	SRI DEVI M
74	411515106080	SRINITHI K
75	411515106081	STEPHEN R
76	411515106084	VIGNESH G
77	411515106086	VIJAY K
78	411515106087	VIJAYALAKSHMI
79	411515106088	VINODHA M
80	411515106089	VISHVA NAVEENA M
81	411515106090	YOGESH R
82	411515106301	MOHANA KRISHNAN

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S.NO	REG. NO.	NAME OF THE STUDENT	07.07.18	09.07.18	10.07.18	11.07.18	12.07.18	13.07.18
1	411515106001	Abdul Hai H						
2	411515106002	Abinesh D			AB			
3	411515106003	Abinesh Ayjith R C			AB			
4	411515106004	Abirami A						
5	411515106005	Ajay Sobi S						
6	411515106006	Aksharakairali						
7	411515106007	Annes Fathima A						
8	411515106008	Aruljothi N						
9	411515106009	Ashiq Mohammed M						AB
10	411515106010	Banu Priya M						
11	411515106011	Bawya M						
12	411515106012	Bhavani D						
13	411515106013	Bheema Nasrin		AB	AB			
14	411515106014	Charumathi T						
15	411515106015	Deepika S						
16	411515106016	Deepthi K						
17	411515106017	Deeraj Manjaray R						
18	411515106019	Dinesh A						
19	411515106020	Ganesh Kumar K		AB		AB		AB
20	411515106021	Gokul Krishnan C						AB
21	411515106022	Gokula Raja K						
22	411515106024	Hemamalini D						
23	411515106025	Indra D						
24	411515106026	Jayashree S						
25	411515106027	Jayashree R						
26	411515106028	John Diwakar S						
27	411515106029	Kalaiarasi J						
28	411515106030	Kamini D						

29	411515106031	Karthikeyan D							
30	411515106032	Karthikeyan R							
31	411515106033	Katherin S							
32	411515106034	Kaviya E							
33	411515106035	Keerthiga R							
34	411515106036	Keerthika P							
35	411515106037	Kishore B							
36	411515106038	Kishore S							
37	411515106039	Krishna S							
38	411515106040	Kumaran P							
39	411515106041	Lavanya A							
40	411515106042	Madhan Kumar S							
41	411515106043	Manikandan B							
42	411515106044	Manikandan S							
43	411515106045	Mutharasi A M							
44	411515106046	Mythily							
45	411515106047	Naganandhini G							
46	411515106049	Naufal Mohammed Habi B							
47	411515106050	Naveen Kumar R							
48	411515106051	Nikitha R							
49	411515106052	Nivedha L							
50	411515106053	Nivetha Jenifer							
51	411515106054	Parthiban Gangaa							
52	411515106055	Periyanayaki G							
53	411515106056	Ponselvapriya B							
54	411515106057	Pradeepa E							
55	411515106058	Pradeepa P							
56	411515106059	Prakash M (07.08.1997)							
57	411515106061	Pravalika P							
58	411515106062	Pravin Jyoti B							
59	411515106063	Priyadharshni T							
60	411515106064	Priyanga G							
61	411515106065	Priyanka P							

62	411515106066	Ragul S								
63	411515106067	Rajkumar M								
64	411515106068	Ramya V								
65	411515106069	Ranjith S								
66	411515106070	Sashikumar R								
67	411515106071	Sethupathy S								
68	411515106072	Sharmila C								
69	411515106074	Sindhujothi R								
70	411515106075	Sirajuddin G								
71	411515106076	Sivakumar G								
72	411515106078	Sowmiya S								
73	411515106079	Sri Devi M								
74	411515106080	Srinithi K								
75	411515106081	Stephen R								
76	411515106084	Vignesh G								
77	411515106086	Vijay K								
78	411515106087	Vijayalakshmi								
79	411515106088	Vinodha M								
80	411515106089	Vishva Naveena M								
81	411515106090	Yogesh R								
82	411515106301	Mohana Krishnan								
PRESENT			79	78	76	79	78	78		
ABSENT			03	04	06	03	04	04		

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S.NO	REG. NO.	NAME OF THE STUDENT	07.07.18	09.07.18	10.07.18	11.07.18	12.07.18	13.07.18
1	411516106003	Annie Muthabaranam A						
2	411516106005	Arshad Ahmed M D						
3	411516106006	Arul Kumar S						
4	411516106010	Asraf A.						
5	411516106012	Bhuvanaa C.						
6	411516106013	Daniel Ancing E						
7	411516106015	Devanand M.						
8	411516106022	Iyyanarappan M						
9	411516106023	Jacklin Emilda S.						
10	411516106026	Jayashree S.						
11	411516106027	Keerthana C.K						
12	411516106028	Keshav Kumar J.						
13	411516106029	Kirthika S.						
14	411516106032	Lokeshwaran B.						
15	411516106033	Mahendra A						
16	411516106034	Mahesh Kumar G						
17	411516106035	Malathy T.						
18	411516106037	Manju Bharkavi M						
19	411516106038	Maria Theena L.T						
20	411516106041	Nivas A.T						
21	411516106042	Nivetha J.						
22	411516106043	Nivetha M						
23	411516106044	Pavithra R						
24	411516106048	Prethi Sai L.						
25	411516106049	Radhika G						
26	411516106050	Ragini J						
27	411516106051	Rajesh S						
28	411516106052	Ramya S						

29	411516106053	Ranjith Sreekar A.G	Pa	AB	AB	AB	Pa	Pa
30	411516106054	Riyaz Ahamed A	Riyaz	Riyaz	Riyaz	Riyaz	Riyaz	Riyaz
31	411516106055	Sandhya M	Sandhya	Sandhya	Sandhya	Sandhya M	Sandhya M	Sandhya .M
32	411516106056	Santhosh M	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhos
33	411516106057	Shivali Angral	S	S	S	S	S	S
34	411516106058	Sowmya S.	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya
35	411516106062	Uma Shankar R	U	U	U	U	U	U
36	411516106064	Vignesh N.	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh
37	411516106301	Bhavana T	Bhavana	Bhavana	Bhavana	Bhavana	Bhavana	Bhavana
38	411516106302	Kanchana A	Kanchana	Kanchana	Kanchana	Kanchana	Kanchana	Kanchana
39	411516106303	Koyalamudi Sai Krishna	Koyala	Koyala	Koyala	Koyala	Koyal	Koyal
40	411516106307	Yuvanshankar P.D	Yuvan	Yuvan	yuvan	yuvan	Yuvan	Yuvn
41	411516106701	Achanta Trinadh Kumar A	Achanta	Achanta	Achanta	achanta	Achanta	Achanta
42	411516106001	Akash B.	Akash	Akash	Akash	Akash	Akash	Akash
43	411516106008	Arunachalam K	A	A	A	A	A	A
44	411516106009	Asif Ali A	Asif Ali	Asif Ali	Asif Ali	Asif Ali	Asif Ali	Asif Ali
45	411516106011	Balaji K	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji
46	411516106014	Deen Kumaran V	Deen	Deen	Deen	Deen	Deen	Deen
47	411516106016	Dilip Kumar T.	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip
48	411516106018	Gowri S.	Gowri	Gowri	Gowri	Gowri	Gowri	Gowri
49	411516106019	Hariharan C	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan
50	411516106021	Henry Solomon J	Henry	Henry	Henry	Henry	Henry	Henry
51	411516106024	Jagan L.	Jagan	Jagan	Jagan	Jagan	Jagan	Jagan
52	411516106025	Jai Prakash V.	Jai Prakash	Jai Prakash	Jai Prakash	Jai Prakash	Jai Prakash	Jai Prakash
53	411516106030	Kirubhakaran M.	Kiru	Kiru	Kiru	Kiru	Kiru	Kiru
54	411516106040	Naveenkumar V	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen
55	411516106045	Poornima Priyadharshini J	Poornima	Poornima	Poornima	Poornima	Poornima	Poornima
56	411516106046	Praveen U.	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
57	411516106047	Praveen.R.S.Nair R.S	Nair	Nair	Nair	Nair	Nair	Nair
58	411516106059	Subhash S	Subha	Subhash	Subhash	Subhash	Subhash	Subhash
59	411516106060	Sudhakaran G.	Sudhakaran	Sudhakaran	Sudhakaran	Sudhakaran	Sudhakaran	Sudhakaran
60	411516106061	Surya Prakash K	Surya	Surya	Surya	Surya	Surya	Surya
61	411516106063	Vairamuthu k	Vairamuthu	Vairamuthu	Vairamuthu	Vairamuthu	Vairamuthu	Vairamuthu

62	411516106065	Vijaya Sundaram A.G						
63	411516106066	Vimal Kumar R						
64	411516106067	Vimal Kumar S						
65	411516106069	Vishali K.						
66	411516106070	Yogeshwar S						
67	411516106304	Sasi Kumar M						
PRESENT			67	66	66	66	67	67
ABSENT			—	01	01	01	—	—

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S.NO	REG. NO.	NAME OF THE STUDENT	07.07.18	09.07.18	10.07.18	11.07.18	12.07.18	13.07.18
1	411517106001	Aakash C.S						
2	411517106002	Aakash Raj S						
3	411517106003	Abdulla A						
4	411517106004	Agnisha V.						
5	411517106005	Aileen Mercybell A						
6	411517106006	Akash S						
7	411517106008	Annapureddy Dhana Lakshmi A						
8	411517106009	Arasavalli Teja Durga Sai S.						
9	411517106010	Arun K.S.						
10	411517106011	Aruneshwaran M						
11	411517106012	Ashika K						
12	411517106013	Balaji N						
13	411517106014	Vamsi Krishna B.						
14	411517106015	Bharath Balaji R						
15	411517106016	Boya Venkata Rakesh B.						
16	411517106018	Chintala.Supriya S.						
17	411517106019	Chukka Monica B.						
18	411517106020	Deepika M.						
19	411517106021	Delli Ganesh G						
20	411517106022	Dinesh V						
21	411517106023	Divya Priya R.						
22	411517106024	Euro Sri M.						
23	411517106025	Gadikota Deekshitha G.						
24	411517106026	Gadi Mano Varshith G.						
25	411517106027	Ganesh Karan K						
26	411517106028	Gayathri K						
27	411517106029	Gnanaprasath L						
28	411517106030	Gupendhiran S						

29	411517106031	Gurrala Hari R.						
30	411517106032	Gurudharsan B						
31	411517106033	Hariharan K						
32	411517106034	Haripriya B.						
33	411517106035	Ilango M						
34	411517106036	Jaiganesh S						
35	411517106038	Javangula Manichand J						
36	411517106040	Jothika A						
37	411517106041	Kalaivani K						
38	411517106042	Kamaleeshwar M						
39	411517106043	Kamesh M						
40	411517106044	Kamesh R						
41	411517106045	Kanickai Raj J						
42	411517106046	Karthic B						
43	411517106047	Karthikeyan A						
44	411517106048	Kathiravan G						
45	411517106049	Kavin J						
46	411517106051	Keerthana L						
47	411517106052	Keerthi Rajan A.S						
48	411517106053	Sasidhar Naidu K						
49	411517106054	Kishore Kumar M						
50	411517106056	Krishnaraj V						
51	411517106057	Kumaran J						
52	411517106058	Lakshmi Aishwarya R.						
53	411517106059	Leena S						
54	411517106060	Logesh S						
55	411517106061	Logeshwari G.						
56	411517106062	Lokeshkumar M.						
57	411517106063	Lokesh Kumar G						
58	411517106064	Lokeshwaran P						
59	411517106065	Madhan Raj P.						
60	411517106066	Manibharathi S.						
61	411517106067	Manisha V.						

62	411517106068	Mary K	key	AB	AB	May	May	May	
63	411517106069	Mohammed Shaarif K							
64	411517106070	Mohana N							
65	411517106071	Monisha M.							
66	411517106072	Kranthi Kumar N							
67	411517106076	Kiran Kumar Reddy O.							
68	411517106077	Padmashree M.							
69	411517106079	Pradeep K.V							
70	411517106081	Praveen S							
71	411517106082	Ragavender S							
72	411517106083	Raja Shree B							
73	411517106084	Rakini C.							
74	411517106085	Ramaprakash G.							
75	411517106086	Raveen Kumar M							
76	411517106087	Rupa Sri V M							
77	411517106088	Sai Sruthi K							
78	411517106089	Sandhiya V							
79	411517106090	Sanjay S							
80	411517106091	Santhana Karthick D							
81	411517106092	Selva Dharshini V							
82	411517106093	Selva Sooriya S							
83	411517106094	Shanthi V.							
84	411517106095	Sharon Grace Betsy G							
85	411517106096	Sheshi Kumar G.R							
86	411517106097	Shivahari P							
87	411517106098	Siva Kumar S							
88	411517106099	Siva Saravanan K							
89	411517106101	Sriram E.							
90	411517106102	Subalakshmi H							
91	411517106104	Uma Magheswari K							
92	411517106105	Yamini Chowdary U							
93	411517106106	Vallarasu R							
94	411517106107	Vasanth kumar.K							

95	411517106108	Vignesh A						
96	411517106109	Vignesh P						
97	411517106110	Vijayalakshmi G						
98	411517106111	Vijithra V						
99	411517106112	Vinodhini S						
100	411517106113	Vunnam Sucharitha V.						
101	411517106114	Yakesh C						
102	411517106115	Yazhir Arafath A						
103	411517106301	Sudalai Muthu						
104	411517106302	Surya						
105	411517106303	Vignesh . L						
PRESENT			103	99	100	102	103	101
ABSENT			02	06	05	03	02	04

Coordinator

HOD/ECE

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

ECA018 Embedded Building blocks using Arduino Hands on for Young

MODULE I:Embedded System design: Basics

What is Embedded System, Main Components of Embedded Systems, Constraints of Embedded System, Power dissipation.Embedded System Classifications(Small Scale,Medium Scale, Sophisticated) and its Components Processors:

General purpose, Single purpose,Application Specific, Concepts of microprocessor and microcontroller, and other Elements of Embedded System

MODULE II: Learning Arduino Platform

Microcontrollers, Programming Microcontrollers, Arduino Platform, The Boards, The Anatomy of an Arduino Board, The Development Environment.

Learning about Analog, Digital, Power, Other Pins, External/USB power supply, reset button, and other components of Arduino Board.Arduino Development Environment: Arduino Software, Different menus and Serial Monitor of Arduino IDE.

Acquiring the skills for writing Arduino Sketches, working with examples, Interfacing some led, switch, Potentiometer with Arduino

MODULE III: The Basics of Sensor & Actuators

Analog and Digital Sensors, Pull-Up/Down resistors and Examples of sensors , Connecting different sensors such as: Humidity, Heat/Temperature, proximity, IR Motion, Accelerometer, Sound , Light, distance, Pressure, Thermal, Infrared, LDR etc. to Arudino Board

MODULE IV: Controlling Embedded System Based Devices using Arduino

Working on LCD monitor, Reading Various Sensor data on Serial Monitor and LCD Display Actuators, Relay Switch, Servo Motor, Putting Things Together, Sensing the World, Reading from Analog Sensors

Coordinator **HOD/ECE**

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ASSESSMENT ON EMBEDDED BUILDING BLOCKS USING ARDUINO

1. What is Arduino?
a) Programming language
b) Image editing software
c) Open-source electronics platform
d) Text editor

2. How many types of Arduino do we have?
a) 4
b) 8
c) 12
d) 16

3. What language is a typical Arduino code based on?
a) Assembly Code
b) Python
c) Java
d) C/C++

4. Arduino shields are also called as _____
a) Another Arduinos
b) Extra peripherals
c) Add on modules
d) Connectivity modules

5. What language is the Arduino IDE built on?
a) Java
b) HTML
c) C/C++
d) Python

6.How many analog pins are used in Arduino Mega board?
a) 12
b) 16
c) 8
d) 14

7.Arduino IDE consists of 2 functions. What are they?
a) Loop() and build() and setup()
b) Build() and loop()

c) Setup() and build()
d) Setup() and loop()

8. Arduino Codes are referred to as _____ in the Arduino IDE.
a) sketches
b) drawings
c) links
d) notes

9. What is the default bootloader of the Arduino UNO?
a) AIR-boot
b) GAG
c) Optiboot bootloader
d) Bare box

10. What does p refer to in ATmega328p?
a) Programmable on chip
b) Power-Pico
c) Production
d) Pico-Power

11. What is the use of the Arduino.h header file?
a) It enables the programmer to access all of Arduino's core functionality
b) It doesn't have any use and can be omitted at any point of time in the code
c) It gives root access to the microcontroller's file system
d) It allows other people to create libraries for the Arduino code

12. What is the use of the Vin pin present on some Arduino Boards?
a) To ground the Arduino Board
b) To power the Arduino Board
c) To provide a 5V output
d) Is used for plugging in 3V supply

13. What is the correct execution process of an Arduino code?
a) Editor->Preprocessor->Compiler
b) Preprocessor->Editor->Compiler
c) Compiler->Preprocessor->Editor
d) Editor->Compiler->Preprocessor

14. What is the microcontroller used in Arduino UNO?
a) ATmega32114
b) AT91SAM3x8E
c) ATmega2560
d) ATmega328p

15. Which board is the first to use a microcontroller within the build USB?
a) RedBoard
b) Leonardo
c) LilyPad
d) UNO

16. Which Arduino Board contains an onboard joystick?
a) Arduino Nano
b) Arduino UNO
c) Arduino Esplora
d) Arduino Due

17. What is the function of the IOREF pin on the Arduino UNO?
a) To take input voltage and set it as a reference for all GPIO operations
b) To provide a constant 12V DC supply
c) To provide ground
d) To provide the voltage corresponding to the standard GPIO working voltage of the board

18. Which processor supports the Arduino Zero?
a) ARM Cortex M0+
b) ARM Cortex M3
c) Atmega32u4
d) Atmega328P

19. Which software is used to upload the Arduino Sketches to the board?
a) avrgcc
b) g++
c) cpython for windows
d) avrdude

20. **What is the use for the 2 serial pins on the Arduino Diecimila?**
a) To send PWM signals
b) To send and receive Serial TTL signals
c) To send and receive GPIO digital signals
d) To receive analog signals

21. **Which Arduino Boards use the Atmega2560?**
a) Arduino Micro and Due
b) Arduino Nano and Fio
c) Arduino Mega and Mega ADK
d) Arduino Uno and Robot

22. What is the operating voltage of Atmega328?
a) 1.9V to 5V
b) 1.8V to 5.5V
c) 1.1V to 5V
d) 12V to 9V

22. **Which Arduino Boards use the Atmega32U4?**
a) Arduino Uno
b) None Mega
c) Arduino Micro
d) Arduino Leonardo

24. Is the Arduino code an Object-Oriented programming language or a Procedural programming language?
a) The Arduino Code follows the Top-Down Procedural ideology
b) The Arduino Code follows a custom Procedural Ideology
c) The Arduino Code follows the Object-Oriented ideology
d) The Arduino Code follows the Bottom-Up Procedural ideology

25. What is the difference between an IDE and a compiler?
a) The compiler executes the code while the IDE gives a graphical environment for writing the code
b) The compiler links the code to the respective files and the IDE takes it from there
c) The compiler and the IDE are the same thing
d) The IDE executes the code while the compiler gives a graphical environment for writing the code

26. What will be the output of the following Arduino code?

```
#define X 10;
void setup(){
   X=0;
   Serial.begin(9600);
   Serial.print(X);
}
void loop(){
   //Do nothing…
}
```

a) 0xAB
b) 0xa
c) 0
d) Error

27. Where does the Arduino IDE search if it needs to find out the Name of a type of Arduino Board?
a) Arduino.h
b) build.txt
c) boards.txt
d) build.core

28. Which component acts as the brain of an embedded system?

a) The hard drive
b) The microcontroller
c) The power supply
d) The cooling fan

29. What is the primary purpose of an RTOS (Real-Time Operating System) in embedded systems?

a) To make the system user-friendly
b) To manage the system's resources efficiently in real-time
c) To provide internet connectivity
d) To store large amounts of data

30. What is the primary programming language used in embedded system development?

a) Python
b) C
c) Java
d) HTML

31. Which of the following is an example of an embedded system?

a) A desktop computer
b) A digital watch
c) A word processing software
d) An online shopping website

32. What is the role of a microcontroller in an embedded system?

a) To provide a user interface
b) To connect the system to the internet
c) To manage the system's resources and processes
d) To increase the system's storage capacity

33. Which type of memory is primarily used for permanent data storage in embedded systems?

a) RAM
b) EEPROM
c) HDD
d) Cache

34. What is firmware in the context of embedded systems?

a) The operating system of a computer
b) Temporary data stored in RAM
c) Software that is permanently stored in hardware
d) A special type of software for developing websites

35. What does RTOS stand for?

a) Real-Time Operating System
b) Rapid Transaction Online System
c) Remote Terminal Operating System
d) Robust Tools for Operating Systems

36. How do embedded systems typically interact with the external environment?

a) Through sensors and actuators
b) By using web browsers
c) Through human intervention only
d) By reading and writing data to CDs

37. What role does firmware play in an embedded system?

a) It acts as a temporary storage area for user data
b) It provides a graphical user interface
c) It is the permanently installed software that controls the hardware
d) It enhances the system's internet connectivity

38. What is the purpose of a watchdog timer in an embedded system?

a) To track the time of day
b) To increase system performance
c) To prevent the system from freezing
d) To reduce power consumption

39. In embedded systems, what is "power-on reset"?

a) A procedure to install new software
b) The process of turning off the device's power supply
c) A function that initializes system hardware settings to their default state on power-up
d) A method for reducing power consumption
c) A function that initializes system hardware settings to their default state on power-up

40. Which communication protocol is commonly used for short-range communication in embedded systems?

a) Ethernet
b) Wi-Fi
c) I2C
d) LTE

41. What is the function of GPIO in an embedded system?

a) To increase the processing power
b) To provide a graphical interface
c) To manage internet connections
d) To serve as a generic pin on a chip whose behavior can be controlled by the user at runtime

42. What is pulse width modulation (PWM) commonly used for in embedded systems?

a) Encrypting data
b) Managing power supply
c) Controlling the speed of motors
d) Storing data

43. What does ADC stand for in the context of embedded systems?

a) Advanced Data Control
b) Analog to Digital Converter
c) Automatic Data Correction
d) Audio Data Compression

44. Which embedded system component is responsible for executing the instructions of a computer program?

a) ROM
b) CPU

c) RAM
d) SSD

45. In the context of embedded systems, what is "bus arbitration"?

a) A method for resolving access conflicts to shared resources
b) A technique for increasing bus speed
c) A protocol for secure data transmission
d) The process of selecting which peripheral to power on

46. What role do capacitors play in embedded system circuits?

a) To store electric charge
b) To act as a secondary processor
c) To increase signal strength
d) To provide backup power

47. How is SPI different from I2C in embedded systems?

a) SPI is slower than I2C
b) SPI is primarily used for internet connectivity
c) SPI requires more pins for communication than I2C
d) SPI is less reliable than I2C

48. What is "debouncing" in the context of embedded systems?

a) Compressing data to save space
b) Filtering out the noise from a signal
c) Ensuring a switch or button press is registered as a single action
d) Reducing the power consumption of a device

49. In embedded systems, what does "bare-metal programming" refer to?

a) Writing code that runs directly on the hardware without an operating system
b) Programming with the case of the device removed
c) Developing software that requires no external libraries
d) Writing applications that manage their own memory and resources

50. What is the main advantage of using an RTOS in embedded systems?

a) It allows for easier web development
b) It provides deterministic behavior and timing
c) It reduces the need for hardware
d) It automatically writes code for the developer

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018 - 2019

Ref: PERIIT/EEE/CC /2018-19/003 **Date: 27.06.2018**

CIRCULAR

The Electrical and Electronics Engineering Department of PERI IT has planned to conduct Add-on course titled "Python Programming for Power Electronics" for II, III and IV year EEE students.

CODE : EA008

S.No.	Year	Scheduled Date	Session 1	Session 2
1	II/III/IV	11-07-2018 to 15-07-2018	8.30 AM to 11.45AM	12.30 PM to 03.30 PM

Coordinator

HoD/EEE

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2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018-2019

TIME TABLE

Course Code : EA008

Course Name: Python Programming for Power Electronics

S.No	DATE	HOURS	TOPIC
1	11.07.2018	1st-6th	Overview of Python programming language, Setting up the Python development environment, Python basics: variables, data types, operators, and expressions
2	12.07.2018	1st-6th	Introduction to NumPy for numerical computing, Working with arrays and matrices, NumPy functions for mathematical operations
3	13.07.2018	1st-6th	Introduction to Pandas for data manipulation, Handling data structures: Series and Data Frames, Data cleaning, filtering, and manipulation with Pandas
4	14.07.2018	1st-6th	Overview of power electronics concepts, Integrating Python with SPICE for circuit simulation, Simulating basic power electronic circuits
5	15.07.2018	1st-6th	Basics of control systems in power electronics, Implementing control algorithms in Python, Introduction to optimization techniques and their application to power electronics design

Coordinator

HOD/EEE

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018-2019

II - EEE

Python Programming for Power Electronics EA008

S. No	Register Number	Student Name
1.	411517105002	Annem Chaitanya Kumar Reddy
2.	411517105003	Aravind G
3.	411517105004	Arivarasi A
4.	411517105005	Arun N
5.	411517105006	Chandru S J
6.	411517105007	Deepakkumar J
7.	411517105008	Dinesh Kumar B
8.	411517105009	Donald Santhuru S
9.	411517105010	Eshwar M
10.	411517105011	Giridharan K
11.	411517105012	Goli Sai Supriya
12.	411517105013	Ilavaruna Karthik P
13.	411517105014	Jayasri A
14.	411517105015	Jeevitha S
15.	411517105016	Karan Raj S
16.	411517105017	Keerthivasan C
17.	411517105018	Manoj M
18.	411517105019	Mohamed Rizwan R
19.	411517105020	Monisha M
20.	411517105021	Mukesh S
21.	411517105022	Naveen Kumar M
22.	411517105023	Poomani R
23.	411517105024	Rahman H
24.	411517105025	Rajesh S
25.	411517105026	Rishika P
26.	411517105028	Rukmani V
27.	411517105029	Santhosh Kumar S
28.	411517105030	Sham Prabu A
29.	411517105031	Sharon Devakirubai B
30.	411517105032	Sugan C
31.	411517105033	Swetha R
32.	411517105034	Swetha S
33.	411517105036	Vani D
34.	411517105037	Vigneshwaran R
35.	411517105301	Jagan
36.	411517105302	Premraj
37.	411517105303	Vivek
38.	411517105304	Yeshwanth

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018-2019

III - EEE

Python Programming for Power Electronics - EA008

S. No	Register Number	Student Name
1.	411516105001	Aarthy S
2.	411516105002	Balasubramani V
3.	411516105003	Caleb W
4.	411516105004	Dhevadharshini V
5.	411516105005	Durai Murugan A
6.	411516105006	Guru Prasad R
7.	411516105007	Harikesh B
8.	411516105008	Harish
9.	411516105011	Sam C
10.	411516105012	Sameeran B
11.	411516105013	Vasanth V
12.	411516105014	Vishali R
13.	411516105301	Jagadesh N
14.	411516105302	Mahadeshwar S
15.	411516105303	Srinivasalu G K

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018-2019

IV – EEE

Python Programming for Power Electronics EA008

S. No	Register Number	Student Name
1.	411515105001	Ajith Kumar P
2.	411515105002	Akesh M
3.	411515105003	Anish Kumar G
4.	411515105004	Arumatias K S
5.	411515105005	Balasubramanian N
6.	411515105006	Daniel Jones I S
7.	411515105007	Danush Adhithya N
8.	411515105008	Dinesh B
9.	411515105009	Dinesh T
10.	411515105010	Dinesh P
11.	411515105011	Dinesh Kumar M
12.	411515105012	Elaynchezhiyan K
13.	411515105013	Harish Kumar S
14.	411515105014	Harish Raj S
15.	411515105015	Kamali G L
16.	411515105016	Keerthana S
17.	411515105017	Kishore Babu C
18.	411515105018	Lesslee New Behan A
19.	411515105019	Malarvizhi S
20.	411515105020	Manikandan R
21.	411515105021	Manisha M
22.	411515105022	Mercy Petricia M
23.	411515105023	Nandakumar R
24.	411515105024	Naresh N
25.	411515105025	Naresh Kumar V N
26.	411515105026	Nirocine G
27.	411515105027	Pradeep Kumar K
28.	411515105028	Ragavan R
29.	411515105029	Rajalingam K
30.	411515105030	Rakesh R
31.	411515105031	Rishwan M
32.	411515105032	Shankar Narayanan V
33.	411515105033	Sowmiya S
34.	411515105034	Thanujaa S
35.	411515105035	Vijay G
36.	411515105036	Vijay N
37.	411515105037	Vinothini G
38.	411515105038	Vishnu Priya B
39.	411515105039	Viswesh K
40.	411515105040	Yogeetha S

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018-2019

Attendance

Course Code: EA008

Course Name: Python Programming for Power Electronics

S. No	Register Number	Name of the Student	Date				
			11-07-2018	12-07-2018	13-07-2018	14-07-2018	15-07-2018
II - EEE							
1.	411517105002	Annem Chaitanya Kumar Reddy	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya
2.	411517105003	Aravind G	Aravind G	Aravind G	Aravind G	Aravind G	Aravind G
3.	411517105004	Arivarasi A	Arivarasi A	Arivarasi A	Arivarasi A	Arivarasi A	Arivarasi A
4.	411517105005	Arun N	Arun N	Arun N	Arun N	Arun N	Arun N
5.	411517105006	Chandru S J	Chandru SJ	Chandru SJ	Chandru SJ	Chandru SJ	Chandru SJ
6.	411517105007	Deepakkumar J	Deepak J	Deepak J	Deepak J	Deepak J	Deepak J
7.	411517105008	Dinesh Kumar B	Dinesh kumar B	Dinesh kumar B	Dinesh kumar B	Dinesh kumar B	Dinesh Kumar B
8.	411517105009	Donald Santhuru S	Santhuru S	Santhuru S	Santhuru S	Santhuru S	Santhuru S
9.	411517105010	Eshwar M	Eshwar M	Eshwar M	Eshwar M	Eshwar M	Eshwar M
10.	411517105011	Giridharan K	Giri K	Giri K	Giri K	Giri K	Giri K
11.	411517105012	Goli Sai Supriya	Sai Supriya	Sai Supriya	Sai Supriya	Sai Supriya	Sai Supriya
12.	411517105013	Ilavaruna Karthik P	Karthik P	Karthik P	Karthik P	Karthik P	Karthik P

13.	411517105014	Jayasri A					
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24.	411515105024	Naresh N					
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27.	411515105027	Pradeep Kumar K					
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30.	411515105030	Rakesh R					
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38.	411515105038	Vishnu Priya B					
39.	411515105039	Viswesh K					
40.	411515105040	Yogeetha S					

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018-2019

SYLLABUS

MODULE 1: INTRODUCTION TO PYTHON FOR POWER ELECTRONICS

Overview of Python programming language, Setting up the Python development environment, Python basics: variables, data types, operators, and expressions

MODULE 2: NUMERICAL COMPUTING WITH NUMPY

Introduction to NumPy for numerical computing, Working with arrays and matrices, NumPy functions for mathematical operations

MODULE 3: DATA MANIPULATION WITH PANDAS

Introduction to Pandas for data manipulation, Handling data structures: Series and Data Frames, Data cleaning, filtering, and manipulation with Pandas

MODULE 4: SIMULATING POWER ELECTRONICS CIRCUITS WITH PYTHON

Overview of power electronics concepts, Integrating Python with SPICE for circuit simulation, Simulating basic power electronic circuits

MODULE 5: CONTROL SYSTEMS AND OPTIMIZATION

Basics of control systems in power electronics, Implementing control algorithms in Python, Introduction to optimization techniques and their application to power electronics design

Coordinator

HOD/EEE

CALEB W
III - EEE

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2018-2019

Assessment

Course Code : EA008
Course Name: Python Programming for Power Electronics

21/25

18/7/18

1. A thyristor (SCR) is a
   a) N-P-N device
   b) P-N-P-N device
   c) P-N device
   d) P-N-P device

2. The MOSFET combines the areas of _____ & _____
   a) Semiconductor & TTL
   b) MOS Technology & CMOS Technology
   c) Field Effect & MOS Technology
   d) None of the mentioned

3. The controlling parameter in MOSFET is
   a) Ig
   b) Vgs
   c) Is
   d) Vds

4. Fully controlled converter uses
   a) Thyristors only
   b) Both Diodes and Thyristors
   c) Diodes only
   d) None of the mentioned

5. What does Matplotlib provide in Python?
   a) Data manipulation
   b) Data visualization
   c) Machine learning
   d) Text processing

6. Which of the following functions is used to create a scatter plot in Matplotlib?
   a) plot()
   b) bar()
   c) scatter()
   d) line()

7. What is the purpose of the xlabel() function in Matplotlib?
   a) Set the x-axis label
   b) Set the y-axis label
   c) Set the title of the plot
   d) Set the legend

8. Which Matplotlib method is used to save a figure to a file?
   a) savefig()
   b) saveplot()
   c) exportfig()
   d) downloadfig()

9. What is the purpose of the legend() function in Matplotlib?
   a) Display the plot title
   b) Display the axis labels
   c) Display a legend
   d) Display the grid

10. How do you set the title of a plot in Matplotlib?
   a) title() method
   b) set_title() method
   c) plot_title() method
   d) set_plot_title() method

11. Which of the following is a valid Matplotlib style?
   a) Classic
   b) Modern
   c) Trendy
   d) Fancy

12. How can you add text annotations to a Matplotlib plot?
   a) annotate() method
   b) add_text() method
   c) text() method
   d) add_annotation() method

13. Which Matplotlib method is used to set the figure size?
   a) set_size()
   b) figure_size()
   c) set_figure_size()
   d) figure(figsize=())

14. What is the purpose of the subplot() function in Matplotlib?
   a) Create multiple plots in one figure
   b) Set the subplot title
   c) Add subplots to a figure
   d) Adjust subplot spacing

15. How can you create a 3D plot in Matplotlib?
   a) plot_3d() method
   b) scatter_3d() method
   c) create_3d_plot() method
   d) plot() with projection='3d' parameter

16. How can you add a colorbar to a Matplotlib plot?
   a) add_colorbar() method
   b) create_colorbar() method
   c) colorbar() method
   d) set_colorbar() method

17. Which device can be used in a chopper circuit?
a) MOSFET
b) GTO
c) BJT
d) All of the mentioned

18. All keywords in Python are in _____
a) Capitalized
b) Lower case
c) UPPER CASE
d) None of the mentioned

19. What does pip stand for python?
a) Pip Installs Packages
b) Pip Installs Python
c) Preferred Installer Program
d) All of the mentioned

20. What arithmetic operators cannot be used with strings in Python?
a) *
b) –
c) +
d) All of the mentioned

21. To add a new element to a list we use which Python command?
a) list1.addLast(5)
b) list1.append(5)
c) list1.add(5)
d) list1.addEnd(5)

22. Which of the following is a Python tuple?
a) {1, 2, 3}
b) {}
c) [1, 2, 3]
d) (1, 2, 3)

23. What is the purpose of NumPy in Python?
a) To do numerical calculations
b) To do scientific computing
c) Both A and B
d) None of the mentioned above

24. What is the shape of a 1D NumPy array with 5 elements?
a) (1, 5)
b) (5,)
c) (5, 1)
d) (1,)

25. How can you access the element at the second row and third column of a 2D NumPy array arr?
a) arr[1, 2]
b) arr[2, 3]
c) arr[1][2]
d) arr[2][3]

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam, Chennai 600048

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2018-2019

Ref: PERIIT /MECH /Workshop/2018-19/01 **Date: 06.12.2018**

CIRCULAR

The Mechanical Engineering Department of PERI IT has planned to conduct workshop titled **"CATIA"** for the Academic year of 2018 – 2019 for II, III & IV year Mechanical students.

CODE:MEW005

Sl. No.	Year	Scheduled Date	Session 1	Session 2
1	II, III & IV	22.03.2019 – 04.05.2019	8.30 AM to 11.45AM	12.30PM to3.30PM

Co-Ordinator

Head of the Department

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

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1. Principal
2. Vice – Principal
3. IQAC
4. Faculty Members
5. Notice Board

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

Course Code: MEW005

Year/Semester: II,III,IV / IV,VI,VIII

Course Name: CATIA

Session: FN & AN

Sl. No	DATE	HOURS	TOPICS
1	22.03.2019	1-6th hour	CATIA as a CAD software: - Concept of Parametric Modeling, Feature Based Modeling, User Interface, Mouse operations, File types and Management, drawing profiles. Major user industries of CATIA.
2	30.03.2019	1-6th hour	Profile toolbar, operation (corner, chamfer, relimitations, transformations, project 3D element), constraints, types of constraints, workbench. sketch tools, tools(Sketch solving status, sketch analysis, output feature), visualization toolbar, user selection filter.
3	20.04.2019	1-6th hour	Material Addition and Removal (Pad, Pocket, Shaft, Groove), Sketch and Positioned Sketch, Types of Fillets, Types of Chamfer, Types of Hole.
4	27.04.2019	1-6th hour	Axis System, Types of draft, Shell, Stiffener, rib slot, Multisection solid, Removed multisection solid, Apply Material, Measure, Render
5	04.05.2019	1-6th hour	Obtaining 2D drawings. Assembly of mechanical assemblies. CAD practice. CATIA V5 sketcher, Part, Generative Drafting, product and assembly modules.

Coordinator

HOD/MECH

Head of the Department
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PERI INSTITUTE OF TECHNOLOGY
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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: II / IV**

Sl. No	Registration Number	Student Name
51	411517114064	JAIADITHIYAN P
52	411517114067	KAMALESH E
53	411517114068	KARAN SINGH J
54	411517114070	KARTHICKKUMAR S
55	411517114071	KARTHIKEYAN R
56	411517114072	KARUPPASAMY A
57	411517114073	KAVIARASAN J
58	411517114075	LOGESHWARAN S
59	411517114076	LOKESH S
60	411517114077	MADAN JASWANT RAHUL S
61	411517114078	MADHAVAN M
62	411517114079	MANICKAVASAGAR S
63	411517114080	MANIKANDAN C
64	411517114083	MANISH KUMAR R
65	411517114084	MANOJ G
66	411517114085	MANOJ KUMAR A
67	411517114086	MANYAM R CHARAN
68	411517114087	MARTIN ROY S
69	411517114088	MESHACH NEERAJ P V
70	411517114089	MITHUNA SRINIKA A
71	411517114091	MOHAMMED ABUL FATHAH Z
72	411517114092	MOOVENDHAN V
73	411517114093	MOSES JEBARAJ A
74	411517114094	MUGESH KANNAN M
75	411517114095	MUHAMMAD YASAR ARAFATH S
76	411517114096	MUKESHKUMAR S
77	411517114097	MUTHURAMALINGAM V
78	411517114098	MUZAFAR AHAMED F
79	411517114099	NAKKEERAN N
80	411517114100	NATARAJAN G
81	411517114101	NEHRU T
82	411517114102	NITHISH KUMAR S
83	411517114103	PALANI S
84	411517114104	PALANIVEL RAJA K
85	411517114105	PALLAVARAJ V
86	411517114106	PARVENDHAN T
87	411517114107	PATURU VISHAL
88	411517114108	PAVITHRAN S
89	411517114110	PRABAKARAN J
90	411517114111	PRADEEP KUMAR K
91	411517114112	PRAVEEN KUMAR J
92	411517114113	PRAVEEN KUMAR M
93	411517114114	PRAVEEN KUMAR S (03-03-1999)
94	411517114115	PRAVEEN KUMAR S (08-04-2000)
95	411517114116	PRAVINKUMAR K
96	411517114117	PREM KUMAR J
97	411517114118	PRIYESH P
98	411517114119	RAGHU D
99	411517114120	RAGUL R
100	411517114122	RAMANAIAH C V

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: II / IV**

Sl. No	Registration Number	Student Name
101	411517114124	RAVI KUMARAN K
102	411517114125	REVANTH S
103	411517114126	RISIKESH K
104	411517114127	SABARI A
105	411517114128	SABBE SATHVIK
106	411517114129	SAI BHARGAV K
107	411517114130	SAKTHI ANAND R
108	411517114131	SAKTHIVEL E
109	411517114132	SANDHIYA T
110	411517114134	SATHISH J
111	411517114135	SATHISHKUMAR S
112	411517114136	SELVADURAI C
113	411517114137	SELVAM P
114	411517114138	SENTHAMILAN K
115	411517114140	SOBIKA S
116	411517114142	SONU PRASAAD H
117	411517114143	SREEVATHSAN B
118	411517114144	SRIDHAR S
119	411517114145	SUDHEER V
120	411517114146	SUGUMARAN K
121	411517114147	SULTHAN BASHA A
122	411517114148	SURESH KUMAR S
123	411517114149	SURIYA K
124	411517114150	SYED NAZEEF
125	411517114151	THENNARASU R

Sl. No	Registration Number	Student Name
126	411517114152	THIYAGU C
127	411517114154	THULACI RAMAN R
128	411517114155	UDATHA MYTHRESH SAI MAHADEV
129	411517114156	VASANTHA KUMAR S
130	411517114157	VIGNESH A
131	411517114158	VIGNESH G (21-12-1999)
132	411517114159	VIGNESH G (23-12-1999)
133	411517114160	VIGNESH P
134	411517114161	VIGNESH R
135	411517114162	VIGNESHWARAN K
136	411517114164	VIKRAM P
137	411517114165	VIKRAMAN T
138	411517114168	YASAR ARUN S
139	411517114169	YUVAPRASATH B
140	411517114170	YVESRON P
141	411517114301	ARUN KUMAR G
142	411517114302	GANGADHARAN K
143	411517114303	PRAVEEN KUMAR N
144	411517114304	ROGAN RAJ P
145	411517114305	VIGNESH S
146	411517114306	YOGESHWAR RAO S
147	411517114701	RAJA EBIN S

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: III / VIII**

Sl. No	Registration Number	Student Name
1	411516114003	AJAY KRISHNAN H
2	411516114004	AJAY KUMAR P
3	411516114005	AJESH LIBIN A
4	411516114009	ANTROW BAVIN A
5	411516114010	ASHWINKUMAR J
6	411516114013	BALAMURUGAN P
7	411516114015	CHRISTOB MELBAN S
8	411516114016	DHACHENAMOORTHY V
9	411516114017	DHANAARASU D
10	411516114019	DINESH R
11	411516114020	DINESH KUMAR S
12	411516114022	GOPAL CHOWDARY F
13	411516114023	GOPINATH C
14	411516114024	GOWTHAM K
15	411516114026	GUNASEKAR M
16	411516114028	HARI GANESH R
17	411516114031	HEMNATH G
18	411516114035	JAYAPRATHAP E
19	411516114036	JEEVA PENIEL D
20	411516114037	JEEVESH S
21	411516114045	KARTHIKEYAN V G
22	411516114046	KEERTHIVASAN R
23	411516114047	KUMARAN B
24	411516114048	KURALARASAN V
25	411516114049	LAKSHMI NARAYANAN N
26	411516114055	MOHAMED ANWAR A
27	411516114057	MOHANBABU S
28	411516114058	MONESH RAJA R
29	411516114061	NAGANANTHAN S
30	411516114062	NAVEEN KUMAR G
31	411516114064	NIRMAL KUMAR R
32	411516114071	RAGHAVARDHAN V
33	411516114072	RAJ S
34	411516114073	RAMKUMAR K
35	411516114074	RAVICHANDRAN M
36	411516114078	RITHIK P S
37	411516114080	SAM PRINCE M
38	411516114081	SAMSON F
39	411516114082	SANTHOSHKUMAR T
40	411516114084	SATHISH B
41	411516114085	SATHIS KUMAR R
42	411516114087	SHAKTHIVEL R
43	411516114088	SIVAGNANAM A
44	411516114089	SUNDHAR M
45	411516114092	TAMIZH MANNAN S
46	411516114093	THARANEESWAR H
47	411516114095	VAIDYANATHAN V
48	411516114098	VIGNESH B
49	411516114102	VIJAYRAJAN V
50	411516114103	VINOTH S (29-04-1998)

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: III / VI**

Sl. No	Registration Number	Student Name
51	411516114104	VINOTH S (03-11-1998)
52	411516114302	CHANDRU R
53	411516114303	JOB A
54	411516114304	KARTHICK E
55	411516114305	MANICKAM D
56	411516114306	NAVEEN KUMAR S
57	411516114307	RAKESH KUMAR SWAIN
58	411516114309	SHAJITH S
59	411516114312	SURENDAR N
60	411516114708	VINOTH V
61	411516114901	THILLAI VENTHAN K
62	411516114002	ABISHEK A
63	411516114006	AJITH A
64	411516114008	AMUDHA RAJ V
65	411516114011	ASHWIN KUMAR R
66	411516114012	BALAJI S
67	411516114014	BALAMURUGAN V
68	411516114021	ELANGO S
69	411516114025	GUKAN J
70	411516114027	GURUMURTHY R
71	411516114029	HARISH K
72	411516114032	JAGADISH M
73	411516114033	JANARTHANAN S
74	411516114034	JAWAHAR SUBBURAJ M
75	411516114039	JOEL RUBERTON R
76	411516114040	JUNIOR NALLATHAMBI K
77	411516114041	KADHARMUGAIDEEN A
78	411516114043	KARMEGAKANNAN N
79	411516114051	MANI K
80	411516114052	MANIKANDAN S

Sl. No	Registration Number	Student Name
81	411516114053	MANOJ KUMAR D
82	411516114054	MERVIN RAJ I
83	411516114056	MOHANA RAM R
84	411516114059	MUKESHKUMAR S
85	411516114060	MUKILAN S
86	411516114063	NIJANTHA KUMAR P
87	411516114066	PRAKASH V
88	411516114067	PRASANTH D
89	411516114068	PRASHANTH C
90	411516114069	PRAVEEN S K
91	411516114075	RAVIKUMAR K S
92	411516114076	RENETH B
93	411516114083	SARAVANAN R
94	411516114086	SERBIN S A
95	411516114090	SURESHKUMAR S
96	411516114094	THAVAKKAL T
97	411516114096	VENKATESH R
98	411516114097	VICHITHIRAN P
99	411516114099	VIGNESH M
100	411516114100	VIGNESH R (19-07-98)
101	411516114101	VIGNESH R (19-08-98)
102	411516114301	BHARANI DHARAN A M
103	411516114308	ROHITH C K
104	411516114310	SRINATH R
105	411516114311	SRINIVASAN D
106	411516114313	UDHAYA KUMAR M
107	411516114701	KANNAN K
108	411516114702	SURENDAR R
109	411516114705	SOUNDARARAJAN M
110	411516114707	SATHISH KUMAR S

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: IV / VIII**

Sl. No	Registration Number	Student Name
1	411515114001	AADHIRAJAN A
2	411515114002	ABIN ANTO A
3	411515114003	ABINESH N
4	411515114004	AGASSI DANIEL KESARI
5	411515114005	AGILAN K
6	411515114006	AHAMEDBAZEER J
7	411515114007	AJITH KUMAR A
8	411515114008	AKASH N
9	411515114009	AKILAN S
10	411515114010	AKSHAY KRISHNA K S
11	411515114011	ALDRIN PRAKASH D
12	411515114012	ALEX STEVE E
13	411515114013	ANAND S K
14	411515114014	ARUN KUMAR G
15	411515114015	ASHWINNATH SINGH S
16	411515114016	AUGUSTIN JEBARAJ M
17	411515114017	BALAJI B
18	411515114018	BALAJI J
19	411515114019	BALA KUMARAN V
20	411515114020	BALA SUBRAMANIYAN E
21	411515114021	BERLIN B
22	411515114022	BERSLIN SOLOMON A
23	411515114023	BHARATH KUMAR S
24	411515114024	BHUMINATHAN M
25	411515114025	BIJESH P

Sl. No	Registration Number	Student Name
26	411515114026	BIRLA K P
27	411515114027	BOLAS SELVAN J
28	411515114028	BRANDON JUDE PEARL
29	411515114029	BRUCE WINSTON B A
30	411515114030	BRUTUS S
31	411515114031	CHAITHANYA S R
32	411515114032	CHANDRU P
33	411515114033	CHARAN RAJ D
34	411515114034	DANIEL D
35	411515114035	DEVARAJAN D
36	411515114036	DHARANI DHARAN V R
37	411515114037	DHINESH A
38	411515114026	BIRLA K P
39	411515114040	DINESH M (20-08-1997)
40	411515114041	DINESH R
41	411515114042	DINESH ARAVIND K
42	411515114043	DINESHKUMAR M
43	411515114044	DINESH KUMAR M P
44	411515114045	DINESH KUMAR S
45	411515114046	DUVARAKNATH B
46	411515114047	ELUMALAI A
47	411515114048	EMMANUEL JACOB S
48	411515114049	ESHWAR M
49	411515114050	FAIYAZ AHAMED S
50	411515114051	GANESH V

Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: IV / VIII**

Sl. No	Registration Number	Student Name
51	411515114052	GANESH RAJ M
52	411515114053	GIRIDHARR K
53	411515114054	GIRINATH R
54	411515114055	GOKUL M
55	411515114056	GOKUL R
56	411515114057	GOKULAKRISHNAN P
57	411515114058	GOKULNATH J P
58	411515114059	GOPI KRISHNAN P
59	411515114060	GOPINATH C
60	411515114061	GOPINATH K
61	411515114062	GOPINATH R
62	411515114063	GOUTHAMSHARAN A
63	411515114064	GURUMOORTHY M
64	411515114065	HARENE BABU S
65	411515114066	HARI HARAN G
66	411515114067	HARIHARASUTHAN R
67	411515114068	HARI KRISHNAN S
68	411515114069	HARISH R
69	411515114070	HARISH S
70	411515114071	HARISHANKAR P
71	411515114072	HARISH KUMAR A
72	411515114073	HENSEL WILSON GOVEAS W
73	411515114074	IMMANUEL S
74	411515114075	INDRANIL BANERJEE
75	411515114076	IRFAN BASHA H
76	411515114077	IZAZUDDIN T N
77	411515114078	JAMSHEED A M
78	411515114079	JAWAHAR S
79	411515114080	JEBARSON SAMUEL J
80	411515114081	JEEVA A
81	411515114082	JEFRON G
82	411515114083	JEGANNADHAN J M
83	411515114084	JOHN WESLEY V
84	411515114085	JOSHI DAS L R
85	411515114086	KARAN S
86	411515114087	KARTHICK K
87	411515114088	KARTHICK S
88	411515114089	KARTHIK S (05-12-1997)
89	411515114090	KARTHIK S (14-12-1997)
90	411515114091	KARTHIK T
91	411515114092	KARTHIKEYAN K
92	411515114093	KARTHIKEYAN R
93	411515114094	KARTHIKEYAN V
94	411515114095	KARTHIK RAJA J
95	411515114096	KARTHIKSURYA R
96	411515114097	KAVIYARASAN R
97	411515114098	KEERTHI T
98	411515114099	KESHAVRAM S
99	411515114100	KIRISHANTH S
100	411515114101	KOUSHIK A

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DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: IV / VIII**

Sl. No	Registration Number	Student Name
101	411515114102	KOWSHIK S
102	411515114103	KRISHNA PRASATH S
103	411515114104	KUMARESAN A
104	411515114105	LOGARAJAN M
105	411515114106	LOGESHWARAN J
106	411515114107	LOKESH S
107	411515114108	MADHAN S
108	411515114109	MAGESH A
109	411515114110	MAHAVISHNU B
110	411515114111	MANIVANNAN R
111	411515114112	MANOJ S K
112	411515114113	MANOJKUMAR G
113	411515114115	MARIA AJITH NITHIYAN P
114	411515114116	MOHAMED ASRAF A
115	411515114117	MOHAMED RIYAZ M
116	411515114118	MOHAMED SUHAIL H
117	411515114119	MOHAMMED FAIZAL M
118	411515114120	MOHAMMED HABEEBULLAH N
119	411515114121	MOHAN B
120	411515114122	MOHAN G
121	411515114123	MOHAN N
122	411515114124	MULAKATI SAIPRAKASH
123	411515114125	MUTHUSAMY M
124	411515114126	NAVEEN KUMAR A
125	411515114127	NAVEEN KUMAR J
126	411515114128	NAVEEN KUMAR M S
127	411515114129	NAVEEN KUMAR V
128	411515114130	NAVIN N
129	411515114131	NIJANDHAN J
130	411515114132	NIKESH C
131	411515114133	NISHANTH M
132	411515114134	NITHISH KUMAR R
133	411515114135	PARAMESHWARAN K
134	411515114136	PARTHASARATHY K
135	411515114137	PARTHASARATHY S
136	411515114138	PARTHEEBAN D
137	411515114139	PAVITHRAN S
138	411515114140	PERIYASAMY S
139	411515114141	PRABAGARAN S
140	411515114142	PRABHU K
141	411515114143	PRADEEP M
142	411515114144	PRADEEP R
143	411515114145	PRADEEP V
144	411515114146	PRAGADEESH V
145	411515114147	PRAKASH G
146	411515114148	PRAKASH K
147	411515114149	PRASANAH KUMAR S K
148	411515114150	PRASANNA S
149	411515114151	PRASANTH S
150	411515114152	PRAVEEN G V

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MEW005 **Year/Semester: IV / VIII**

Sl. No	Registration Number	Student Name
151	411515114153	PRAVEEN KUMAR D
152	411515114154	PRAVEEN KUMAR P
153	411515114156	PRAVEENRAJ R
154	411515114157	PRAVIN N D
155	411515114158	PREMKUMAR S
156	411515114159	PUVIYARASAN J M
157	411515114160	RAAJIV S
158	411515114161	RAGHURAMA CHANDRAN L
159	411515114162	RAGUL D
160	411515114163	RAHUL RISHI M
161	411515114164	RAJA P
162	411515114165	RAJAGURU V
163	411515114166	RAJ KUMAR M
164	411515114167	RAKESH M
165	411515114168	RAMANATHAN K
166	411515114169	RANJITH A
167	411515114170	RATHISH RAJ R
168	411515114171	RAVICHANDRAN K
169	411515114172	REMI A
170	411515114173	ROHITH RAJENDRAN
171	411515114174	SABAREESH P B
172	411515114175	SABARINATHAN T
173	411515114176	SACHIN PRAKASH R
174	411515114177	SAI PRATAP D
175	411515114178	SAKTHIDHASAN M
176	411515114179	SAM JOE J
177	411515114180	SANJEEVI M
178	411515114181	SANTHAKUMAR C
179	411515114182	SANTHOSH C G
180	411515114183	SARAN S
181	411515114185	SATHISH M
182	411515114186	SATHISH R
183	411515114188	SATHISH KUMAR S (30-07-1998)
184	411515114189	SATHYANARAYANAN S
185	411515114190	SATHYA NARAYANAN D
186	411515114191	SAURAV KUMAR
187	411515114192	SELVARAJ S
188	411515114193	SEZHIYAN P
189	411515114194	SHAMER BIN HUSSAIN M
190	411515114195	SHIVANESAN B
191	411515114196	SIMIYON SAMUVEL E
192	411515114197	SIVA E
193	411515114198	SIVAMANIKANADAN M
194	411515114199	SIVASANKARAN R
195	411515114200	SRIKARTHICK A
196	411515114201	SRIRAM R
197	411515114202	SUBASH K
198	411515114203	SUDIR S
199	411515114204	SUKRAM M
200	411515114205	SUNDAREESHWARAN J

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Participants Name List
Course Name – CATIA

Course Code: MA005 **Year/Semester: IV / 8**

Sl. No	Registration Number	Student Name
201	411515114206	SURENDAR R
202	411515114207	SURENDAR S
203	411515114208	SURESH B
204	411515114209	SURESH T
205	411515114210	SURYA M
206	411515114211	SURYA PRASATH G S
207	411515114212	SYED SADDAM ALI
208	411515114213	TAMILSELVAN S
209	411515114214	TAMILVANAN S
210	411515114215	THIRUMALAI E
211	411515114216	THIYAGARAJAN V
212	411515114217	UDHAYA KUMAR A
213	411515114218	VASUMADHAN V
214	411515114219	VIGASH R
215	411515114220	VIGNESH G
216	411515114221	VIGNESH K
217	411515114222	VIGNESH M
218	411515114223	VIGNESH S
219	411515114224	VIGNESH V
220	411515114225	VIGNESH KUMAR S
221	411515114227	VIJAY R
222	411515114228	VIJAYAKUMAR R

Coordinator

HOD/MECH

Head of the Department
Dept. of Mechanical Engg.
PERI INSTITUTE OF TECH.
Mannivakkam, Ch-600 048.

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai 600048
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2018-2019
Attendance Sheet
Course Name: CATIA

Course Code: MEW005 **Year/Semester: II,III,IV / IV,VI,VIII**

Sl. No	Registration Number	Student Name	22.03.19	30.03.19	20.04.19	27.04.19	04.05.19
Second Year							
1	411517114001	AADESH M					
2	411517114002	ABDUL HAMEED A					
3	411517114003	ABINESH C					
4	411517114004	ABISHEK M (19-05-1999)					
5	411517114005	ABISHEK M (16-06-2000)					
6	411517114007	AJAY K					
7	411517114008	AJAY R					
8	411517114009	AJAY MUGIL V					
9	411517114010	AJAY RAJ KUMAR G					
10	411517114011	AJAY VISHWA V					
11	411517114012	AJITHKUMAR S					
12	411517114013	AKASH C					
13	411517114014	AKASH S					
14	411517114016	AKASH S					
15	411517114017	ALFRED ROSHAN M					
16	411517114018	ANANDHA KRISHNAN M					
17	411517114019	ANISH R					
18	411517114020	ANNAMALAI S					
19	411517114021	ANTO PRINCE P					
20	411517114022	APPANDAIRAJ S					
21	411517114024	ARAVIND E B					
22	411517114025	ARAVINDA KUMAR M					
23	411517114026	ARAVIND KUMAR S					
24	411517114027	ARUL ANANDHAM A S					
25	411517114028	ARUN A S					

26	411517114029	ARUNKUMAR S						
27	411517114030	ARUN KUMAR V						
28	411517114033	BALAJI S (18-06-99) S						
29	411517114034	BALAJI S (25-10-1999) S						
30	411517114035	BARATH A						
31	411517114039	BHARATH P						
32	411517114040	BUVANESHWAR A						
33	411517114041	CAJETAN RAHUL S A						
34	411517114043	CHERUKURU TEJA						
35	411517114044	DHANUSH E						
36	411517114045	DHARUN NIVAS S N						
37	411517114046	DINESH A						
38	411517114047	DINESH B						
39	411517114049	DINESH KUMAR C						
40	411517114050	DIVYACHANDAR S						
41	411517114051	ELUMALAI A						
42	411517114052	FERNANDES K						
43	411517114054	GOKULARAJA S						
44	411517114055	GOKUL HARSHA P						
45	411517114056	GOPESHWARAN A						
46	411517114057	GOWTHAM N						
47	411517114058	GOWTHAM RAJA M						
48	411517114059	HARIHARAN B						
49	411517114060	HARISH V						
50	411517114063	JAGADEESH G						
51	411517114064	JAIADITHIYAN P						
52	411517114067	KAMALESH E						
53	411517114068	KARAN SINGH J						
54	411517114070	KARTHICKKUMAR S						
55	411517114071	KARTHIKEYAN R						
56	411517114072	KARUPPASAMY A						
57	411517114073	KAVIARASAN J						

58	411517114075	LOGESHWARAN S						
59	411517114076	LOKESH S						
60	411517114077	MADAN JASWANT RAHUL S						
61	411517114078	MADHAVAN M						
62	411517114079	MANICKAVASAGAR S						
63	411517114080	MANIKANDAN C						
64	411517114083	MANISH KUMAR R						
65	411517114084	MANOJ G						
66	411517114085	MANOJ KUMAR A						
67	411517114086	MANYAM R CHARAN						
68	411517114087	MARTIN ROY S						
69	411517114088	MESHACH NEERAJ P V						
70	411517114089	MITHUNA SRINIKA A						
71	411517114091	MOHAMMED ABUL FATHAH Z						
72	411517114092	MOOVENDHAN V						
73	411517114093	MOSES JEBARAJ A						
74	411517114094	MUGESH KANNAN M						
75	411517114095	MUHAMMAD YASAR ARAFATH S						
76	411517114096	MUKESHKUMAR S						
77	411517114097	MUTHURAMALINGA M V						
78	411517114098	MUZAFAR AHAMED F						
79	411517114099	NAKKEERAN N						
80	411517114100	NATARAJAN G						
81	411517114101	NEHRU T						
82	411517114102	NITHISH KUMAR S						
83	411517114103	PALANI S						
84	411517114104	PALANIVEL RAJA K						
85	411517114105	PALLAVARAJ V						
86	411517114106	PARVENDHAN T						
87	411517114107	PATURU VISHAL						

88	411517114108	PAVITHRAN S						
89	411517114110	PRABAKARAN J						
90	411517114111	PRADEEP KUMAR K						
91	411517114112	PRAVEEN KUMAR J						
92	411517114113	PRAVEEN KUMAR M						
93	411517114114	PRAVEEN KUMAR S (03-03-1999)						
94	411517114115	PRAVEEN KUMAR S (08-04-2000)						
95	411517114116	PRAVINKUMAR K						
96	411517114117	PREM KUMAR J						
97	411517114118	PRIYESH P						
98	411517114119	RAGHU D						
99	411517114120	RAGUL R						
100	411517114122	RAMANAIAH C V						
101	411517114124	RAVI KUMARAN K						
102	411517114125	REVANTH S						
103	411517114126	RISIKESH K						
104	411517114127	SABARI A						
105	411517114128	SABBE SATHVIK						
106	411517114129	SAI BHARGAV K						
107	411517114130	SAKTHI ANAND R						
108	411517114131	SAKTHIVEL E						
109	411517114132	SANDHIYA T						
110	411517114134	SATHISH J						
111	411517114135	SATHISHKUMAR S						
112	411517114136	SELVADURAI C						
113	411517114137	SELVAM P						
114	411517114138	SENTHAMILAN K						
115	411517114140	SOBIKA S						
116	411517114142	SONU PRASAAD H						
117	411517114143	SREEVATHSAN B						
118	411517114144	SRIDHAR S						
119	411517114145	SUDHEER V						

120	411517114146	SUGUMARAN K						
121	411517114147	SULTHAN BASHA A						
122	411517114148	SURESH KUMAR S						
123	411517114149	SURIYA K						
124	411517114150	SYED NAZEEF						
125	411517114151	THENNARASU R						
126	411517114152	THIYAGU C						
127	411517114154	THULACI RAMAN R						
128	411517114155	UDATHA MYTHRESH SAI MAHADEV						
129	411517114156	VASANTHA KUMAR S						
130	411517114157	VIGNESH A						
131	411517114158	VIGNESH G (21-12-1999)						
132	411517114159	VIGNESH G (23-12-1999)						
133	411517114160	VIGNESH P						
134	411517114161	VIGNESH R						
135	411517114162	VIGNESHWARAN K						
136	411517114164	VIKRAM P						
137	411517114165	VIKRAMAN T						
138	411517114168	YASAR ARUN S						
139	411517114169	YUVAPRASATH B						
140	411517114170	YVESRON P						
141	411517114301	ARUN KUMAR G						
142	411517114302	GANGADHARAN K						
143	411517114303	PRAVEEN KUMAR N						
144	411517114304	ROGAN RAJ P						
145	411517114305	VIGNESH S						
146	411517114306	YOGESHWAR RAO S						
147	411517114701	RAJA EBIN S						

Third Year								
1	411516114003	AJAY KRISHNAN H						
2	411516114004	AJAY KUMAR P						
3	411516114005	AJESH LIBIN A						
4	411516114009	ANTROW BAVIN A						
5	411516114010	ASHWINKUMAR J						
6	411516114013	BALAMURUGAN P						
7	411516114015	CHRISTOB MELBAN S						
8	411516114016	DHACHENAMOORTHY V						
9	411516114017	DHANAARASU D						
10	411516114019	DINESH R						
11	411516114020	DINESH KUMAR S						
12	411516114022	GOPAL CHOWDARY F						
13	411516114023	GOPINATH C						
14	411516114024	GOWTHAM K						
15	411516114026	GUNASEKAR M						
16	411516114028	HARI GANESH R						
17	411516114031	HEMNATH G						
18	411516114035	JAYAPRATHAP E						
19	411516114036	JEEVA PENIEL D						
20	411516114037	JEEVESH S						
21	411516114045	KARTHIKEYAN V G						
22	411516114046	KEERTHIVASAN R						
23	411516114047	KUMARAN B						
24	411516114048	KURALARASAN V						
25	411516114049	LAKSHMI NARAYANAN N						
26	411516114055	MOHAMED ANWAR A						
27	411516114057	MOHANBABU S						
28	411516114058	MONESH RAJA R						
29	411516114061	NAGANANTHAN S						
30	411516114062	NAVEEN KUMAR G						
31	411516114064	NIRMAL KUMAR R						
32	411516114071	RAGHAVARDHAN V						
33	411516114072	RAJ S						
34	411516114073	RAMKUMAR K						
35	411516114074	RAVICHANDRAN M						
36	411516114078	RITHIK P S						
37	411516114080	SAM PRINCE M						

38	411516114081	SAMSON F	
39	411516114082	SANTHOSHKUMAR T	
40	411516114084	SATHISH B	
41	411516114085	SATHIS KUMAR R	
42	411516114087	SHAKTHIVEL R	
43	411516114088	SIVAGNANAM A	
44	411516114089	SUNDHAR M	
45	411516114092	TAMIZH MANNAN S	
46	411516114093	THARANEESWAR H	
47	411516114095	VAIDYANATHAN V	
48	411516114098	VIGNESH B	
49	411516114102	VIJAYRAJAN V	
50	411516114103	VINOTH S (29-04-1998)	
51	411516114104	VINOTH S (03-11-1998)	
52	411516114302	CHANDRU R	
53	411516114303	JOB A	
54	411516114304	KARTHICK E	
55	411516114305	MANICKAM D	
56	411516114306	NAVEEN KUMAR S	
57	411516114307	RAKESH KUMAR SWAIN	
58	411516114309	SHAJITH S	
59	411516114312	SURENDAR N	
60	411516114708	VINOTH V	
61	411516114901	THILLAI VENTHAN K	
62	411516114002	ABISHEK A	
63	411516114006	AJITH A	
64	411516114008	AMUDHA RAJ V	
65	411516114011	ASHWIN KUMAR R	
66	411516114012	BALAJI S	
67	411516114014	BALAMURUGAN V	
68	411516114021	ELANGO S	
69	411516114025	GUKAN J	
70	411516114027	GURUMURTHY R	
71	411516114029	HARISH K	
72	411516114032	JAGADISH M	
73	411516114033	JANARTHANAN S	
74	411516114034	JAWAHAR SUBBURAJ M	
75	411516114039	JOEL RUBERTON	

		R					
76	411516114040	JUNIOR NALLATHAMBI K					
77	411516114041	KADHARMUGAIDEEN A					
78	411516114043	KARMEGAKANNAN N					
79	411516114051	MANI K					
80	411516114052	MANIKANDAN S					
81	411516114053	MANOJ KUMAR D					
82	411516114054	MERVIN RAJ I					
83	411516114056	MOHANA RAM R					
84	411516114059	MUKESHKUMAR S					
85	411516114060	MUKILAN S					
86	411516114063	NIJANTHA KUMAR P					
87	411516114066	PRAKASH V					
88	411516114067	PRASANTH D					
89	411516114068	PRASHANTH C					
90	411516114069	PRAVEEN S K					
91	411516114075	RAVIKUMAR K S					
92	411516114076	RENETH B					
93	411516114083	SARAVANAN R					
94	411516114086	SERBIN S A					
95	411516114090	SURESHKUMAR S					
96	411516114094	THAVAKKAL T					
97	411516114096	VENKATESH R					
98	411516114097	VICHITHIRAN P					
99	411516114099	VIGNESH M					
100	411516114100	VIGNESH R (19-07-98)					
101	411516114101	VIGNESH R (19-08-98)					
102	411516114301	BHARANI DHARAN A M					
103	411516114308	ROHITH C K					
104	411516114310	SRINATH R					
105	411516114311	SRINIVASAN D					
106	411516114313	UDHAYA KUMAR M					
107	411516114701	KANNAN K					
108	411516114702	SURENDAR R					
109	411516114705	SOUNDARARAJAN M					
110	411516114707	SATHISH KUMAR S					

Final Year									
1	411515114001	AADHIRAJAN A							
2	411515114002	ABIN ANTO A							
3	411515114003	ABINESH N							
4	411515114004	AGASSI DANIEL KESARI							
5	411515114005	AGILAN K							
6	411515114006	AHAMEDBAZEER J							
7	411515114007	AJITH KUMAR A							
8	411515114008	AKASH N							
9	411515114009	AKILAN S							
10	411515114010	AKSHAY KRISHNA K S							
11	411515114011	ALDRIN PRAKASH D							
12	411515114012	ALEX STEVE E							
13	411515114013	ANAND S K							
14	411515114014	ARUN KUMAR G							
15	411515114015	ASHWINNATH SINGH S							
16	411515114016	AUGUSTIN JEBARAJ M							
17	411515114017	BALAJI B							
18	411515114018	BALAJI J							
19	411515114019	BALA KUMARAN V							
20	411515114020	BALA SUBRAMANIYAN E							
21	411515114021	BERLIN B							
22	411515114022	BERSLIN SOLOMON A							
23	411515114023	BHARATH KUMAR S							
24	411515114024	BHUMINATHAN M							
25	411515114025	BIJESH P							
26	411515114026	BIRLA K P							
27	411515114027	BOLAS SELVAN J							

28	411515114028	BRANDON JUDE PEARL					
29	411515114029	BRUCE WINSTON B A					
30	411515114030	BRUTUS S					
31	411515114031	CHAITHANYA S R					
32	411515114032	CHANDRU P					
33	411515114033	CHARAN RAJ D					
34	411515114034	DANIEL D					
35	411515114035	DEVARAJAN D					
36	411515114036	DHARANI DHARAN V R					
37	411515114037	DHINESH A					
38	411515114026	BIRLA K P					
39	411515114040	DINESH M (20-08-1997)					
40	411515114041	DINESH R					
41	411515114042	DINESH ARAVIND K					
42	411515114043	DINESHKUMAR M					
43	411515114044	DINESH KUMAR M P					
44	411515114045	DINESH KUMAR S					
45	411515114046	DUVARAKNATH B					
46	411515114047	ELUMALAI A					
47	411515114048	EMMANUEL JACOB S					
48	411515114049	ESHWAR M					
49	411515114050	FAIYAZ AHAMED S					
50	411515114051	GANESH V					
51	411515114052	GANESH RAJ M					
52	411515114053	GIRIDHARR K					
53	411515114054	GIRINATH R					
54	411515114055	GOKUL M					
55	411515114056	GOKUL R					
56	411515114057	GOKULAKRISHNA N P					
57	411515114058	GOKULNATH J P					
58	411515114059	GOPI KRISHNAN P					
59	411515114060	GOPINATH C					
60	411515114061	GOPINATH K					

61	411515114062	GOPINATH R	Copi	Copi	Copi	Copi	Copi
62	411515114063	GOUTHAMSHARA N A					
63	411515114064	GURUMOORTHY M	Guru	Guru	Guru	Guru	Guru
64	411515114065	HARENE BABU S					
65	411515114066	HARI HARAN G	Hari	Hari	Hari	Hari	Hari
66	411515114067	HARIHARASUTHA N R					
67	411515114068	HARI KRISHNAN S					
68	411515114069	HARISH R					
69	411515114070	HARISH S					
70	411515114071	HARISHANKAR P					
71	411515114072	HARISH KUMAR A	Kuma	Kuma	Kuma	Kuma	Kuma
72	411515114073	HENSEL WILSON GOVEAS W					
73	411515114074	IMMANUEL S					
74	411515114075	INDRANIL BANERJEE	Indr	Indra	Indr	Indra	Indra
75	411515114076	IRFAN BASHA H					
76	411515114077	IZAZUDDIN T N	Izaz	Izaz	Izaz	Izaz	Izaz
77	411515114078	JAMSHEED A M					
78	411515114079	JAWAHAR S	Jeeva	Jeeva	Jeeva	Jeeva	Jeeva
79	411515114080	JEBARSON SAMUEL J					
80	411515114081	JEEVA A					
81	411515114082	JEFRON G					
82	411515114083	JEGANNADHAN J M					
83	411515114084	JOHN WESLEY V	J. Wesly	J. Wesly	J. Wesly	J. Wesly	J. Wesly
84	411515114085	JOSHI DAS L R	Joshi	Joshi	Joshi	Joshi	Joshi
85	411515114086	KARAN S	Karan	Karan	Karan	Karan	Karan
86	411515114087	KARTHICK K					
87	411515114088	KARTHICK S					
88	411515114089	KARTHIK S (05-12-1997)					
89	411515114090	KARTHIK S (14-12-1997)					
90	411515114091	KARTHIK T					
91	411515114092	KARTHIKEYAN K					
92	411515114093	KARTHIKEYAN R					
93	411515114094	KARTHIKEYAN V	K.K	K.K	K.K	K.K	K.K

94	411515114095	KARTHIK RAJA J					
95	411515114096	KARTHIKSURYA R					
96	411515114097	KAVIYARASAN R					
97	411515114098	KEERTHI T					
98	411515114099	KESHAVRAM S					
99	411515114100	KIRISHANTH S					
100	411515114101	KOUSHIK A					
101	411515114102	KOWSHIK S					
102	411515114103	KRISHNA PRASATH S					
103	411515114104	KUMARESAN A					
104	411515114105	LOGARAJAN M					
105	411515114106	LOGESHWARAN J					
106	411515114107	LOKESH S					
107	411515114108	MADHAN S					
108	411515114109	MAGESH A					
109	411515114110	MAHAVISHNU B					
110	411515114111	MANIVANNAN R					
111	411515114112	MANOJ S K					
112	411515114113	MANOJKUMAR G					
113	411515114115	MARIA AJITH NITHIYAN P					
114	411515114116	MOHAMED ASRAF A					
115	411515114117	MOHAMED RIYAZ M					
116	411515114118	MOHAMED SUHAIL H					
117	411515114119	MOHAMMED FAIZAL M					
118	411515114120	MOHAMMED HABEEBULLAH N					
119	411515114121	MOHAN B					
120	411515114122	MOHAN G					
121	411515114123	MOHAN N					
122	411515114124	MULAKATI SAIPRAKASH					
123	411515114125	MUTHUSAMY M					
124	411515114126	NAVEEN KUMAR A					
125	411515114127	NAVEEN KUMAR J					
126	411515114128	NAVEEN KUMAR M S					

127	411515114129	NAVEEN KUMAR V					
128	411515114130	NAVIN N					
129	411515114131	NIJANDHAN J					
130	411515114132	NIKESH C					
131	411515114133	NISHANTH M					
132	411515114134	NITHISH KUMAR R					
133	411515114135	PARAMESHWARA N K					
134	411515114136	PARTHASARATHY K					
135	411515114137	PARTHASARATHY S					
136	411515114138	PARTHEEBAN D					
137	411515114139	PAVITHRAN S					
138	411515114140	PERIYASAMY S					
139	411515114141	PRABAGARAN S					
140	411515114142	PRABHU K					
141	411515114143	PRADEEP M					
142	411515114144	PRADEEP R					
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144	411515114146	PRAGADEESH V					
145	411515114147	PRAKASH G					
146	411515114148	PRAKASH K					
147	411515114149	PRASANAH KUMAR S K					
148	411515114150	PRASANNA S					
149	411515114151	PRASANTH S					
150	411515114152	PRAVEEN G V					
151	411515114153	PRAVEEN KUMAR D					
152	411515114154	PRAVEEN KUMAR P					
153	411515114156	PRAVEENRAJ R					
154	411515114157	PRAVIN N D					
155	411515114158	PREMKUMAR S					
156	411515114159	PUVIYARASAN J M					
157	411515114160	RAAJIV S					
158	411515114161	RAGHURAMA CHANDRAN L					
159	411515114162	RAGUL D					

160	411515114163	RAHUL RISHI M					
161	411515114164	RAJA P					
162	411515114165	RAJAGURU V					
163	411515114166	RAJ KUMAR M					
164	411515114167	RAKESH M					
165	411515114168	RAMANATHAN K					
166	411515114169	RANJITH A					
167	411515114170	RATHISH RAJ R					
168	411515114171	RAVICHANDRAN K					
169	411515114172	REMI A					
170	411515114173	ROHITH RAJENDRAN					
171	411515114174	SABAREESH P B					
172	411515114175	SABARINATHAN T					
173	411515114176	SACHIN PRAKASH R					
174	411515114177	SAI PRATAP D					
175	411515114178	SAKTHIDHASAN M					
176	411515114179	SAM JOE J					
177	411515114180	SANJEEVI M					
178	411515114181	SANTHAKUMAR C					
179	411515114182	SANTHOSH C G					
180	411515114183	SARAN S					
181	411515114185	SATHISH M					
182	411515114186	SATHISH R					
183	411515114188	SATHISH KUMAR S (30-07-1998)					
184	411515114189	SATHYANARAYANAN S					
185	411515114190	SATHYA NARAYANAN D					
186	411515114191	SAURAV KUMAR					
187	411515114192	SELVARAJ S					
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189	411515114194	SHAMER BIN HUSSAIN M					
190	411515114195	SHIVANESAN B					
191	411515114196	SIMIYON SAMUVEL E					
192	411515114197	SIVA E					

193	411515114198	SIVAMANIKANADAN M						
194	411515114199	SIVASANKARAN R						
195	411515114200	SRIKARTHICK A						
196	411515114201	SRIRAM R						
197	411515114202	SUBASH K						
198	411515114203	SUDIR S						
199	411515114204	SUKRAM M						
200	411515114205	SUNDAREESHWARAN J						
201	411515114206	SURENDAR R						
202	411515114207	SURENDAR S						
203	411515114208	SURESH B						
204	411515114209	SURESH T						
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206	411515114211	SURYA PRASATH G S						
207	411515114212	SYED SADDAM ALI						
208	411515114213	TAMILSELVAN S						
209	411515114214	TAMILVANAN S						
210	411515114215	THIRUMALAI E						
211	411515114216	THIYAGARAJAN V						
212	411515114217	UDHAYA KUMAR A						
213	411515114218	VASUMADHAN V						
214	411515114219	VIGASH R						
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219	411515114224	VIGNESH V						
220	411515114225	VIGNESH KUMAR S						
221	411515114227	VIJAY R						
222	411515114228	VIJAYAKUMAR R						

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DEPARTMENT OF MECHANICAL ENGINEERING

MEW005 – CATIA

Syllabus

Session 1: Introduction to CATIA

CATIA as a CAD software: - Concept of Parametric Modeling, Feature Based Modeling, User Interface, Mouse operations, File types and Management, drawing profiles. Major user industries of CATIA.

Session 2: Sketch

Profile toolbar, operation (corner, chamfer, relimitations, transformations, project 3D element), constraints, types of constraints, workbench. sketch tools, tools(Sketch solving status, sketch analysis, output feature), visualization toolbar, user selection filter.

Session 3: Modeling of Machined component

Material Addition and Removal (Pad, Pocket, Shaft, Groove), Sketch and Positioned Sketch, Types of Fillets, Types of Chamfer, Types of Hole.

Session 4: Advance Design features

Axis System, Types of draft, Shell, Stiffener, rib slot, Multisection solid, Removed multisection solid, Apply Material, Measure, Render

Session 5: Solid 3D Modeling.

Obtaining 2D drawings. Assembly of mechanical assemblies. CAD practice. CATIA V5 sketcher, Part, Generative Drafting, product and assembly modules.

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2018-2019

sam joe. j
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Assessment Test

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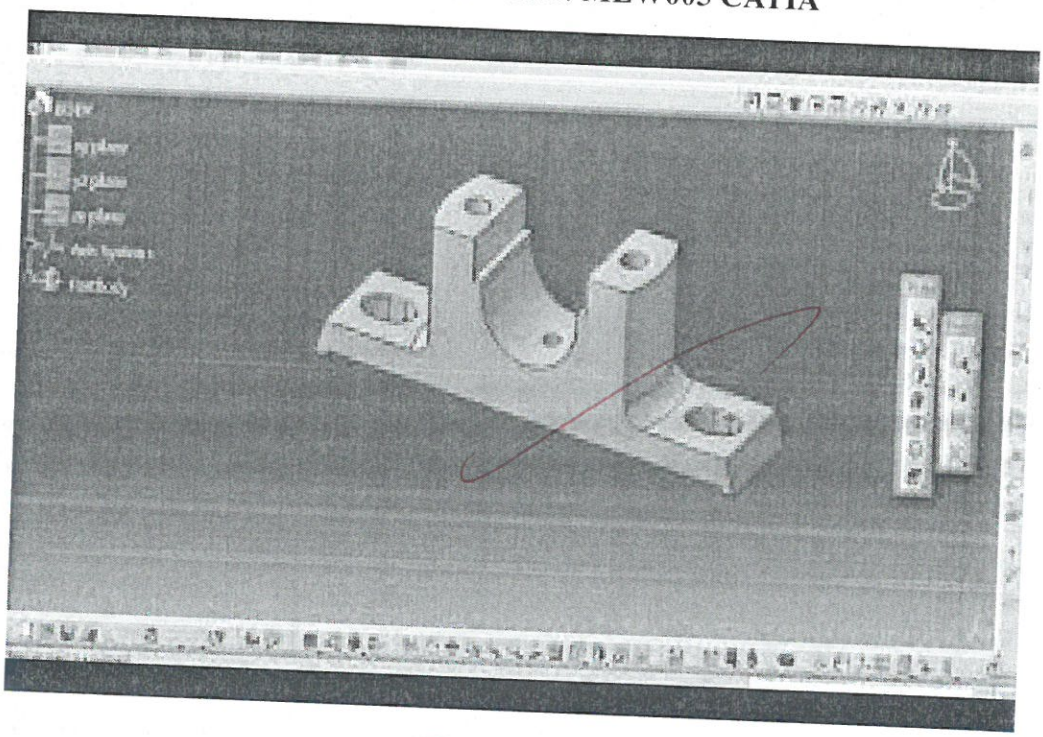

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ACADEMIC YEAR 2019-2020

SAI PRATAP.

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Assessment Test

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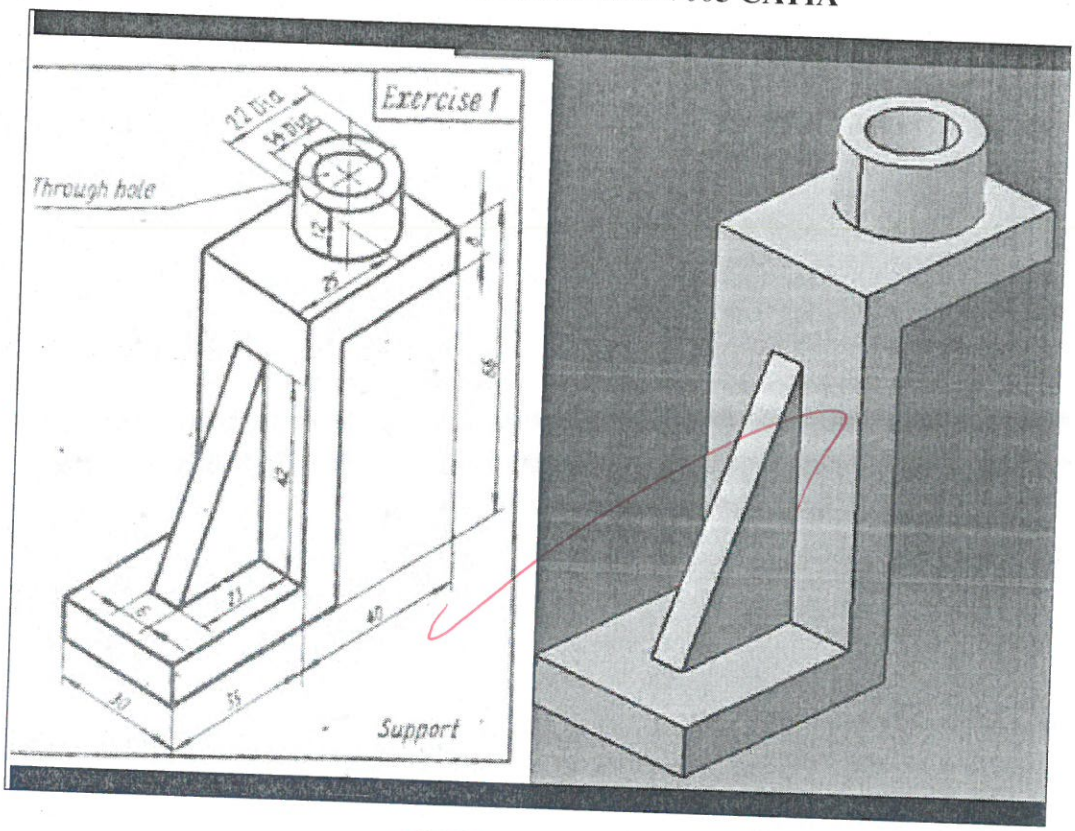

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ACADEMIC YEAR 2019-2020

Assessment Test

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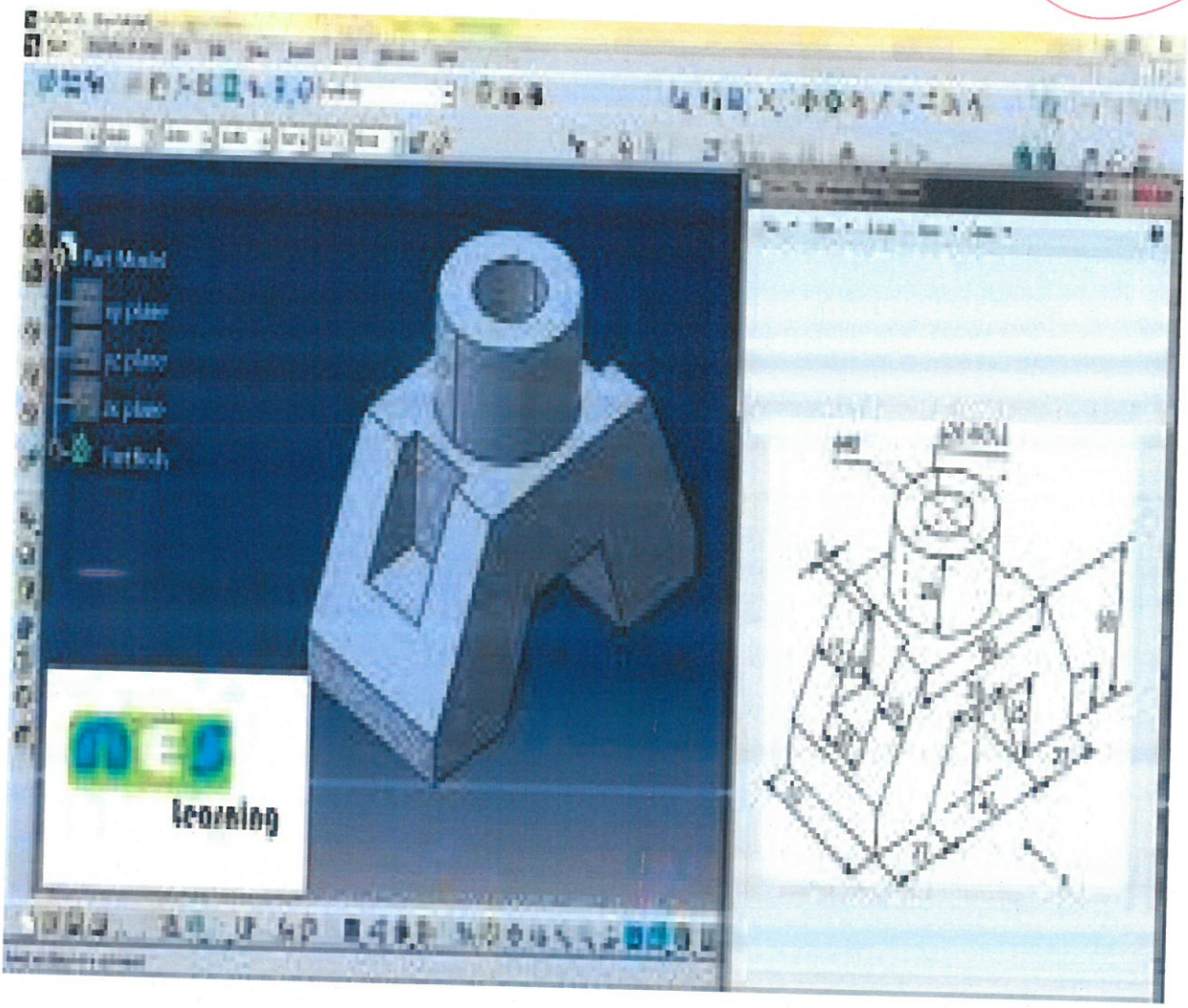

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