

PERI INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

REGULATIONS 2024**B.Tech. INFORMATION TECHNOLOGY****SEMESTER - I**

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24SH108106	Life Skill - I	EEC	1	0	0	1	1
2.	24SH101105	Engineering Mathematics - I	BSC	3	1	0	4	4
3.	24CS101101	Introduction to Advanced Computer Technologies	PCC	3	0	0	3	3
4.	24CS101102	Fundamentals of Programming for Problem Solving	ESC	3	0	0	3	3
5.	24ME105101	Engineering Graphics and Design	ESC	2	0	4	6	4
6.	24SH108108	Personal and Professional Competencies for Engineers	EEC	1	0	0	1	1
LAB INTEGRATED COURSE								
7.	24SH102101	Physics for Information Science	BSC	3	0	2	5	4
PRACTICALS								
8.	24CS103103	Basic Programming lab	ESC	0	0	4	4	2
9.	24SH103107	Communication Laboratory - I	HSMC	0	0	2	2	1
TOTAL				16	1	12	29	23

SEMESTER – II

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24SH108205	Life Skills - II	EEC	1	0	0	1	1
2.	24EE101202	Basic Electrical & Electronics Engineering	ESC	4	0	0	4	4
3.	24CS101201	Python Programming	PC	3	0	0	3	3
4.	24SH101206	Tamil and Technology	HSMC	1	0	0	1	1
LAB INTEGRATED COURSE								
5.	24SH102202	Engineering Mathematics - II	BSC	3	0	2	5	4
6.	24SH102204	Engineering Chemistry	BSC	3	0	2	5	4
PRACTICALS								
7.	24CS103202	Python Programming Lab	PC	0	0	4	4	2
8.	24ME103203	IDEA Lab	ESC	0	0	4	4	2
9.	24SH103207	Communication Laboratory-II	HSMC	0	0	2	2	1
MANDATORY COURSE								
9.	24SH112203	Environmental Science and Engineering	BSC	2	0	0	2	0
TOTAL				17	0	14	31	22

SEMESTER - III

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.		Discrete Mathematics	BSC	3	1	0	4	4
2.		Computer Architecture	PC	3	0	0	3	3
3.		Life Skills-III	EEC	1	0	0	1	1
4.		Holistic Personality Development and Behavioral Skills	EEC	1	0	0	1	1
LAB INTEGRATED COURSE								
5.		Operating Systems	PC	3	0	2	5	4
6.		Object Oriented Programming using Java	PC	3	0	2	5	4
7.		Principles of Artificial Intelligence	PC	3	0	2	5	4
8.		Data Structures	PC	3	0	2	5	4
MANDATORY COURSE								
9.		Indian Constitution	MC	2	0	0	2	0
TOTAL				22	1	08	31	25

SEMESTER - IV

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.		Theory of Computation	PC	3	0	0	3	3
2.		Object Oriented Software Engineering	PC	3	0	0	3	3
3.		Life Skill – IV	EEC	1	0	0	1	1
4.		Open Elective – I	OE	3	0	0	3	3
5.		Invention – Principles and Practices	EEC	1	0	0	1	1
LAB INTEGRATED COURSE								
6.		Design and Analysis of Algorithms	PC	3	0	2	5	4
7.		Information Technology Essentials	PC	3	0	2	5	4
8.		Professional Elective - I	PE	3	0	2	5	4
MANDATORY COURSE								
9.		Social Services	MC	2	0	0	2	0
TOTAL				22	0	06	28	23

SEMESTER - V

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.		Distributed Computing	PC	3	0	0	3	3
2.		Foundations of Data Science	PC	3	0	0	3	3
3.		Computer Networks	PC	3	0	0	3	3
4.		Life Skill – V	EEC	1	0	0	1	1
5.		Open Elective – II	OE	3	0	0	3	3
LAB INTEGRATED COURSE								
6.		Database Management Systems	PC	3	0	2	5	4
7.		Professional Elective- II	PE	3	0	2	5	4
MANDATORY COURSE								
8.		Quantitative Aptitude – I / GRE TOFEL - I	EEC	2	0	0	2	0
9.		Essence of Indian Traditional Knowledge and Science	MC	2	0	0	2	0
TOTAL				23	0	04	27	21

SEMESTER - VI

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.		Cryptography & Network Security	PC	3	0	0	3	3
2.		Software Project Management	PC	3	0	0	3	3
3.		Mobile Applications Development	PC	3	0	0	3	3
4.		Professional Elective - III	PE	3	0	0	3	3
5.		Open Elective – III	OE	3	0	0	3	3
6.		Life Skill – IV	EEC	1	0	0	1	1
LAB INTEGRATED COURSE								
7.		Full Stack Web Development	PC	3	0	2	5	4
MANDATORY COURSE								
8.		Quantitative Aptitude – II / GRE TOFEL - II	EEC	2	0	0	2	0
9.		Behavioral Science and Psychology	MC	2	0	0	2	0
TOTAL				23	0	02	25	20

SEMESTER - VII

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.		Professional Elective - IV	PE	3	0	0	3	3
2.		Open Elective -IV	OE	3	0	0	3	3
PRACTICALS								
3.		Internship	EEC	0	0	5	5	4
TOTAL				6	0	5	11	10

SEMESTER - VIII

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.		Elective - Management	HS	3	0	0	3	3
2.		Human Values and Ethics	HS	3	0	0	4	3
PRACTICALS								
3.		Internship	EEC	0	0	4	4	4
4.		Project Work	EEC	0	0	4	4	6
TOTAL				6	0	8	15	16

PERI INSTITUTE OF TECHNOLOGY

B.E. COMPUTER SCIENCE AND ENGINEERING

LIST OF PROFESSIONAL ELECTIVES: VERTICALS

Sno	PE1 Emerging Technologies	PE2 Full Stack Development	PE3 Data Science	PE4 Cloud Computing & Data Center Technologies	PE5 Creative Media	PE6 Artificial Intelligence
1	Advanced Python Programming	Web Application Security	Big Data Analytics	Virtualization	Multimedia and Animation	Knowledge Engineering
2	Augmented Reality / Virtual Reality	Java Full Stack	Data Exploration and Visualization	Cloud Services Management	Game Development	Soft Computing
3	UI and UX Design	App Development	Advanced Database Management System	Security and Privacy in Cloud	UI and UX Design	Neural Networks and Deep Learning
4	Machine Learning	UI and UX Design	Image and Video Analytics	Storage Technologies	Digital marketing	Generative AI Fundamentals
5	Embedded Systems and IoT	Software Testing and Automation	Data Science using Python (NPTEL)	DevOps	Multimedia Data Compression	Game Theory

PERI Institute of Technology
Department of Computer Science and Engineering

OPEN ELECTIVE COURSES: VERTICALS

Vertical I	Vertical II	Vertical III	Vertical IV
Open Elective offered by Electronics and communication Engineering	Open Elective offered by Civil Engineering	Open Elective offered by Mechanical Engineering	Open Elective offered by Electrical and Electronics Engineering
Microcontroller and Embedded System	Civil Engineering Drawing Laboratory	AutoCAD	Electrical CAD
Advanced Embedded System and IoT	Civil Engineering Modelling Laboratory I	Solid Works	Design Implementation and Commissioning of Solar and Wind Energy Systems
VLSI Design and MEMS Technology	Computational Structural Analysis Laboratory	ANSYS	PLC and SCADA Systems
Digital Design by using VHDL/Verilog	Plan Analysis & Design of Structure		Electrical Vehicle Design
	HVAC		