ANNEXURE - V

PERI INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

REGULATIONS 2024

M.E APPLIED ELECTRONICS

SEMESTER - I

S.	COURSETITIE GORY	PE	RIODS F WEEK	PER	TOTAL CONTACT	0050170		
NO.	CODE	COURSETITLE	GORY	L	Т	Р	PERIODS	CREDITS
		THI	EORY					
1.		Applied Mathematics for Electronics Engineers	FC	3	1	0	4	4
2.		Research Methodology and IPR	RMC	2	0	0	2	2
3.		Advanced Digital Signal Processing	PCC	3	0	0	3	3
4.		Semiconductor Devices and Modeling	PCC	3	0	0	3	3
5.		Digital CMOS VLSI Design	PCC	3	0	0	3	3
6.		Audit Course – I*	AC	2	0	0	2	0
		LAB INTEGRA	TED COU	RSE				
		Advanced Digital System Design	PCC	3	0	2	5	4
		PRAC	TICALS					
8.		Electronics System Design Laboratory	PCC	0	0	3	3	1.5
9.		Signal Processing Laboratory	PCC	0	0	3	3	1.5
			TOTAL	19	1	8	28	22

SEMESTER - II

S.	COURSE	OOUDOSTITI S	CATE- GORY	PERIODSPER WEEK			TOTAL CONTACT	CREDITS
NO.	CODE	COURSETITLE	GORT	L	Т	Р	PERIODS	
		THE	ORY					
1.		Analog and Mixed Signal IC Design	PCC	3	0	0	3	3
2.		Industrial Internet of Things	PCC	3	0	0	3	3
3.		Power Conversion Circuits for Electronics	PCC	3	0	0	3	3
4.		Professional Elective I	PEC	3	0	0	3	3
5.		Professional Elective II	PEC	3	0	0	3	3
6.		Audit Course – II*	AC	2	0	0	2	0
		LAB INTEGRA	ATED COL	JRSE				
7.		Embedded Systems	PCC	3	0	2	5	4
	•	PRAC	CTICALS	-				
8.		VLSI Design Laboratory	PCC	0	0	4	4	2
9.		Mini Project with seminar	EEC	0	0	2	2	1
			TOTAL	20	0	8	28	22

SEMESTER - III

S.	COURSE		CATE- GORY	PERIODS PER WEEK			TOTAL CONTACT	0050170				
NO.	CODE	COURSETITLE	<u> </u>		Т	Р	PERIODS	CREDITS				
	THEORY											
1.		Professional Elective III	PEC	3	0	0	3	3				
2.		Professional Elective IV	PEC	3	0	0	3	3				
3.		Open Elective	OEC	3	0	0	3	3				
		LAB INTEGRA	ATED COL	JRSE								
4.		Professional Elective V	PEC	3	0	2	5	4				
	PRACTICALS											
5.		Project Work I	EEC	0	0	12	12	6				
		TOTAL		12	0	14	26	19				

SEMESTER - IV

S.	COURSE		CATE-	PERIODSPER WEEK			TOTAL CONTACT	CREDITS
NO.	CODE	COURSETITLE	GORY	L	Т	Р	PERIODS	
		PRAC	CTICALS					
1.	CU4411	Project Work II	EEC	0	0	24	24	12
		TOTAL		0	0	24	24	12

Total No.of.Credits: 75

PROFESSIONAL ELECTIVES SEMESTER II, ELECTIVE I

S.	COURSE		CATE-	PERIODS PER WEEK			TOTAL CONTACT				
NO.	CODE	COURSETITLE	GORY	L	Т	Р	PERIODS	CREDITS			
	THEORY										
1.		Applications Specific Integrated Circuits	PEC	3	0	0	3	3			
2.		Computer Architecture and Parallel Processing	PEC	3	0	0	3	3			
3.		Automotive Electronics	PEC	3	0	0	3	3			
4.		Robotics	PEC	3	0	0	3	3			
5.		Soft Computing and Optimization Techniques	PEC	3	0	0	3	3			

SEMESTER II, ELECTIVE II

S.	COURCETITIE		CATE-	PERIODS PER WEEK			TOTAL CONTACT				
NO.	CODE	COURSETITLE	GORY	L	T	Р	PERIODS	CREDITS			
	THEORY										
1.		RF System Design	PEC	3	0	0	3	3			
2.		Electromagnetic Interference and Compatibility	PEC	3	0	0	3	3			
3.		VLSI Design Techniques	PEC	3	0	0	3	3			
4.		Nano Technologies	PEC	3	0	0	3	3			
5.		VLSI Testing	PEC	3	0	0	3	3			
6.		Edge Analytics and Internet of Things	PEC	3	0	0	3	3			

SEMESTER III, ELECTIVE III

S.	COURSE		CATE- GORY	PERIODS PER WEEK			TOTAL CONTACT	
NO.	CODE COURSETITLE GORY		L	Т	Р	PERIODS	CREDITS	
		THE	EORY					
1.		Sensors and Actuators	PEC	3	0	0	3	3
2.		Signal Integrity for High Speed Design	PEC	3	0	0	3	3
3.		Consumer Electronics	PEC	3	0	0	3	3
4.		Advanced Microprocessors and Microcontrollers Architectures	PEC	3	0	0	3	3
5.		Biomedical Signal Processing	PEC	3	0	0	3	3

SEMESTER III, ELECTIVE IV

S.	COURSE		CATE- GORY		RIODS F WEEK	PER	TOTAL CONTACT					
NO.	CODE	COURSETITLE	GORT	L	T	Р	PERIODS	CREDITS				
	THEORY											
1.		Modeling and Synthesis with HDL	PEC	3	0	2	5	4				
2.		Deep Learning	PEC	3	0	2	5	4				
3.		Advanced Digital Image Processing	PEC	3	0	2	5	4				
4.		PCB Design	PEC	3	0	2	5	4				

AUDIT COURSES (AC)

Registration for any of these courses is optional to students

S.	COURSE		CATEGORY	Р	ERIODS WEEK			
NO.	CODE	COURSETITLE	GATEGORI	٦	Т	Р	CREDITS	
1.		English for Research Paper Writing	AC	2	0	0	0	
2.		Disaster Management	AC	2	0	0	0	
3.		Constitution of India	AC	2	0	0	0	
4.		000000000000000	AC	2	0	0	0	

LIST OF OPEN ELECTIVES FOR PG PROGRAMMES

S.	COURSE		CATEGORY	Р	ERIODS WEEK		CDEDITE
NO.	CODE	COURSETITLE	OATEOORT	L	Т	Р	CREDITS
1.		Integrated Water Resources Management	OE	3	0	0	3
2.		Water, Sanitation and Health	OE	3	0	0	3
3.		Principles of Sustainable Development	OE	3	0	0	3
4.		Environmental Impact Assessment	OE	3	0	0	3
5.		Block chain Technologies	OE	3	0	0	3
6.		Deep Learning	OE	3	0	0	3
7.		Vibration and Noise Control Strategies	OE	3	0	0	3
8.		Energy Conservation and Management in Domestic Sectors	OE	3	0	0	3
9.		Additive Manufacturing	OE	3	0	0	3
10.		Electric Vehicle Technology	OE	3	0	0	3
11.		New Product Development	OE	3	0	0	3
12.		Sustainable Management	OE	3	0	0	3
13.		Micro and Small Business Management	OE	3	0	0	3
14.		Intellectual Property Rights	OE	3	0	0	3
15.		Ethical Management	OE	3	0	0	3
16.		IoT for Smart Systems	OE	3	0	0	3
17.		Machine Learning and Deep Learning	OE	3	0	0	3
18.		Renewable Energy Technology	OE	3	0	0	3
19.		Smart Grid	OE	3	0	0	3
20.		Security Practices	OE	3	0	0	3
21.		Cloud Computing Technologies	OE	3	0	0	3
22.		Design Thinking	OE	3	0	0	3
23.		Principles of Multimedia	OE	3	0	0	3
24.		Environmental Sustainability	OE	3	0	0	3
25.		Textile Reinforced Composites	OE	3	0	0	3
26.		Nanocomposite Materials	OE	3	0	0	3
27.		IPR, Biosafety and Entrepreneurship	OE	3	0	0	3