PERI INSTITUTE OF TECHNOLOGY

(AUTONOMUS) B.E. MECHANICAL ENGINEERING CURRICULUM AND SYLLABI- REGULATION 2024 SEMESTER I

S.No.	COURSE	COURSE TITLE	CATEGORY		RIOD WEEI		TOTAL CONTACT	CREDIT
	CODE			L	T	P	PERIOD	
		THEO	RY					
1.	24SH108106	Life Skills - I	EEC	1	0	0	1	1
2.	24SH108108	Personal and Professional Competencies for Engineers	EEC	1	0	0	1	1
3.	24SH101105	Engineering Mathematics – I	BSC	3	1	0	4	4
4.	24ME101102	Introduction to Mechanical Engineering	PCC	3	0	0	3	3
5.	24CS101102	Fundamentals of programming for problem Solving	ESC	3	0	0	3	3
6.	24ME105101	Engineering Graphics and Design	ESC	2	0	4	6	4
		LAB INTEGRAT	ED THEOR	Y				
7.	24SH102103	Materials Physics	BSC	3	0	2	5	4
		PRACTIO	CALS					
8.	24CS103103	Basic Programming Lab	ESC	0	0	4	4	2
9.	24SH108107	Communication Lab - I	HSMC	0	0	2	2	1
		TOTAL		16	1	12	29	23

SEMESTER II

SEMESTERII											
S.No.	COURSE	COURSE TITLE	CATEGORY		RIOD I WEEK		TOTAL CONTACT	CREDIT			
CODE				L	T	P	PERIOD				
THEORY											
1.	24SH108205	Life Skills - II	EEC	1	0	0	1	1			
2.	24SH101206	Tamils and Technology	HSMC	1	0	0	1	1			
3.	24EE101202	Basic Electrical and Electronics Engineering	ESC	4	0	0	4	4			
4.	24ME101201	Engineering Mechanics	PCC	3	0	0	3	3			
LAB INTEGRATED COURSE											
5.	24SH102204	Engineering Chemistry	BSC	3	0	2	5	4			
6.	24SH102202	Engineering Mathematics – II	BSC	3	0	2	5	4			
		PRA	CTICALS								
7.	24ME103202	Computer-Aided Design Lab	PCC	0	0	4	4	2			
8.	24ME103203	IDEA Lab Workshop	ESC	0	0	4	4	2			
9.	24SH108207	Communication Lab - II	HSMC	0	0	2	2	1			
		MANDAT	ORY COURS	SE							
10.	24SH112203	Environmental Science and Engineering	MC	2	0	0	2	0			
		TOTAL	17	0	14	31	22				

SEMESTER-III

S.No.	COURSE	COURSE TITLE	CATEGORY		RIOD I WEEK		TOTAL CONTACT	CREDIT	
Sir (Oi	CODE		CHILOUNI	L	T	P	PERIOD	CILLETT	
		THE	ORY						
1.		Transforms And Partial Differential Equations	BSC	3	1	0	4	4	
2.		Theory of Machines	PCC	3	0	1	4	3	
3.		Engineering Thermodynamics	PCC	3	0	1	3	3	
4.		Materials Science	PCC	3	0	0	3	3	
5.		Open Elective - I	OEC	2	0	0	2	3	
6.		Life Skill III – Basic Conversation Skills	EEC	2	0	0	2	1	
7.		Invention – Principles and Practices	EEC	0	0	2	2	1	
		LAB INTEGRA	ATED COURS	E					
8.		Manufacturing Technology-I	PPC	3	0	2	5	4	
		PRAC	TICALS						
9.		CAAD Laboratory	PCC	0	0	4	4	2	
			TOTAL	19	1	10	29	24	

SEMESTER-IV

S.No.	COURSE	COURSE TITLE	CATEGORY		RIOD I WEEK		TOTAL CONTACT	CREDIT	
212 (01	CODE	0001102 11122	0.11200111	L	T	P	PERIOD	0142211	
		THE	CORY						
1.		Fluid Mechanics & Machinery	ESC	4	0	0	4	4	
2.		Strength of Materials for Mechanical Engineering	PCC	3	0	1	4	3	
3.		Thermal Engineering	PCC	3	0	0	3	3	
4.		Manufacturing Technology-II	BSC	3	0	1	4	3	
5.		Professional Elective I	PEC	3	0	0	2	3	
6.		Open Elective - II	OEC	3	0	0	3	3	
7.		Holistic Personality Development and Behavioral Skills	EEC	2	0	0	2	1	
8.		Life Skill IV – Public Speaking Practices	EEC	2	0	0	2	1	
		PRAC	TICALS						
9.		Strength of Material & Fluid Mechanics Laboratory	PCC	0	0	4	4	1.5	
10.		Design & Manufacturing Laboratory (CAAD/CAM)	PCC	0	0	4	4	1.5	
		TOTAL		23	0	10	32	24	

SEMESTER-V

S.No.	COURSE	COURSE TITLE	CATEGORY		RIOD I WEEK		TOTAL CONTACT	CREDIT	
211 (00	CODE	0 0 01.02 11.22	0.11200111	L	T	P	PERIOD	0143211	
		THE							
1.		Design of Transmission System	PCC	4	0	0	3	3	
2.		Design for Manufacturing & Assembly	PCC	3	0	1	3	3	
3.		Heat and Mass Transfer	PCC	3	0	1	4	4	
4.		Automobile Engineering	PCC	3	0	1	4	3	
5.		Life Skill IV	EEC	2	0	0	2	1	
6.		Professional Elective II	PEC	3	0	0	3	3	
7.		Open Elective - III	OEC	3	0	0	3	3	
		PRAC	TICALS						
8.		Thermal & HMT Laboratory	PCC	0	0	4	4	1.5	
9.		Product Design Lab (CATIA)	PCC	0	0	4	4	1.5	
		MANDATO	RY COURSE	1					
10.		Essence of Indian Traditional Knowledge and Science	MC	0	0	1	1	0	
		TOTAL	21	0	12	31	23		

SEMESTER-VI

					_		ı			
G 3.7	COURSE		a. === a. ===		RIOD I		TOTAL	~~~~		
S.No.	CODE	COURSE TITLE	CATEGORY	L T P			CONTACT PERIOD	CREDIT		
		THE	OPV	L	T	Γ	TERIOD			
THEORY										
1.		Finite Element Analysis	PCC	4	0	0	4	4		
2.		Mechanical, Electrical, and Plumbing Engineering	ESC	3	0	1	4	3		
3.		Metrology & Quality Control Engineering	PCC	3	0	0	3	3		
4.		Oil and Gas Piping Engineering	PCC	3	0	0	3	2		
5.		Professional Elective III	PEC	3	0	0	3	3		
6.		Open Elective – IV	OEC	3	0	0	3	3		
7.		Life Skill IV	EEC	2	0	0	2	1		
		PRAC	TICALS		I	l				
8.		Engineering Analysis Laboratory	PCC	0	0	2	2	2		
		MANDATO	RY COURSE							
9.		Behavioral Science and Physcology	MC	1	0	0	1	0		
			TOTAL	26	0	9	31	21		

SEMESTER-VII

S.No.	COURSE	COURSE TITLE	CATEGORY		RIOD I WEEK		TOTAL CONTACT	CREDIT				
	CODE			L	T	P	PERIOD					
	THEORY											
1.		Additive Manufacturing (3D Printing	PCC	3	0	1	4	3				
2.		Professional Elective IV	PEC	3	0	0	3	3				
	PRACTICALS											
3.		Internship	EEC	0	0	4	4	4				
			TOTAL	6	0	5	11	10				

SEMESTER-VIII

S.No.	COURSE	COURSE TITLE	CATEGORY		RIOD I WEEK		TOTAL CONTACT	CREDIT			
	CODE			L	T	P	PERIOD				
	THEORY										
1.		Management Course-I	HSMC	3	0	0	3	3			
2.		Management Course-II	HSMC	3	0	0	3	3			
		PRAC	TICALS								
3.		Project work	EEC	0	0	4	4	7			
			TOTAL	6	0	4	10	13			

Total Credit: 160

CATEGORY	I	II	III	I V	V	VI	VII	VIII	Credits	(%)	As Per AICTE
BSC	8	7	4	-	-	-	-	-	19	13.095	29
HSMC	1	1	-	-	-	-	-	6	8	7.738	12
ESC	9	8	-	4	-	3	-	-	24	11.309	27
PCC	3	5	15	1 2	16	11	3	-	65	43.452	58
PEC	-	-	-	3	3	3	3	-	12	7.140	9
EEC/ Project Work / Internship	2	1	2	2	1	1	4	7	20	10.123	16
OEC	-	-	3	3	3	3	-	-	12	7.142	9
Non- Credit*/ (Mandatory)	-	0	-	-	-	-	-	-	0	0.010	0
TOTAL	23	22	24	2 4	23	21	10	13	<mark>160</mark>	100.0	<mark>160</mark>