

VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING PEED M. TECH - COURSE STRUCTURE (R21)

M.TECH - I YEAR I – SEMESTER						
Course Type	Course	Name of the Course	L	Т	Р	Credits
	Code					
Professional Core -	21PE6111	Machine Modeling and Analysis	3	0	0	3
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Professional Core -	21PE6112	Power Electronic Devices and	3	0	0	3
II		Converters				
Professional	21PE6171	1. Renewable Energy Systems	3	0	0	3
Elective -I	21PS6171	2. Smart Grid Technologies				
	21EC6171	3. Advanced Digital Signal Processing				
Professional	21PE6172	1. FACTS and Custom Power Devices	3	0	0	3
Elective -II	21PE6173	2. Electric Traction System				
	21PE6174	3. Modern Control Theory				
Professional Core	21PE6151	Machine Modeling Simulation Lab	0	0	4	2
Lab-I						
Professional Core	21PE6152	Power Converters Lab	0	0	4	2
Lab-II						
Mandatory Course	21MC6111	Research Methodology & IPR	2	0	0	2
Audit	21AU6101	Stress Management by Yoga	2	0	0	0
				Te	otal	18

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Category	Course Code	Course Title			Р	Credits		
Professional Core -III	21PE6211	Advanced Power Electronics	3	0	0	3		
Professional Core -IV	21PE6212	Electric Drives			0	3		
Professional Elective -III	21PS6271 21PE6271 21PE6272	 Reactive Power Compensation and Management Power Electronics for Renewable Energy Systems High-power converters & topologies 	3	0	0	3		
Professional Elective -IV	21PE6273 21EC6271 21PS6275	 1.AI Techniques in Electrical Engineering 2. Advanced Micro Controller based Systems 3. Power Quality 	3	0	0	3		
Professional Core Lab-III	21PE6251	Advanced Power Electronics Simulation Lab	0	0	4	2		
Professional Core Lab-IV	21PE6252	Electric Drives Lab		0	4	2		
Project Work	21PE6291	Mini project with Seminar		0	4	2		
Audit	21AU6201	English for Research Paper Writing	2	0	0	0		
				To	otal	18		

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M.TECH - II YEAR I – SEMESTER

R21

S.No.	Category	Course Code	Course Title	L	Т	P/D	Credits
1	Professional Elective -V	21PE7171 21PE7172 21PE7173	Energy Storage Technologies Electric and Hybrid Vehicles Digital Control Systems	3	0	0	3
2	Open Elective			3	0	0	3
3	Project Work	21PE7181	Dissertation Work Review - I	0	0	12	6
Total						12	

M.TECH - I IYEAR I I – SEMESTER

Course S.No. Category **Course Title** L Т Р Credits Code Project 1 2PE7281 Dissertation Work Review — II 0 0 12 6 Work Project 0 2 Dissertation Viva-Voce 0 24 21PE7282 14 Work Total 20

R21