



EPS M. TECH - COURSE STRUCTURE (R21)

M.TECH - I YEAR I – SEMESTER

R21

Course Type	Course Code	Name of the Course	L	T	P	Credits
Professional Core -I	21PS6111	Advanced Power System Analysis	3	0	0	3
Professional Core -II	21PS6112	Economic Operation of Power Systems	3	0	0	3
Professional Elective -I	21PE6171 21PS6171 21PS6172	1.Renewable Energy Systems 2.Smart Grid Technologies 3.AI Techniques in Power Systems	3	0	0	3
Professional Elective -II	21PE6172 21PS6173 21PS6174	1.FACTS and Custom Power Devices 2.Power System Transients 3. Electrical Power Distribution and Automation	3	0	0	3
Professional Core Lab-I	21PS6151	Power System Computation Lab - I	0	0	4	2
Professional Core Lab-II	21PS6152	Advanced Power Systems Lab	0	0	4	2
Mandatory Course	21MC6111	Research Methodology & IPR	2	0	0	2
Audit	21AU6101	Stress Management by Yoga	2	0	0	0
Total						18

M.TECH - I YEAR II – SEMESTER

R21

Category	Course Code	Course Title	L	T	P	Credits
Professional Core -III	21PS6211	Power System Dynamics and Control	3	0	0	3
Professional Core -IV	21PS6212	Digital Protection of Power System	3	0	0	3
Professional Elective -III	21PS6271 21PE6271 21PS6272	1. Reactive Power Compensation and Management 2. Power Electronics For Renewable Energy Systems 3. Restructured Power Systems	3	0	0	3
Professional Elective -IV	21PS6273 21PS6274 21PS6275	1.HVDC Transmission 2.Power System Reliability and Planning 3. Power Quality	3	0	0	3
Professional Core Lab-III	21PS6251	Power System Computation Lab II	0	0	4	2
Professional Core Lab-IV	21PS6252	Power System Protection Lab	0	0	4	2
Project Work	21PS6291	Mini project with Seminar	0	0	4	2
Audit	21AU6201	English for Research Paper Writing	2	0	0	0
Total						18



VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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M.TECH - II YEAR I – SEMESTER

R21

S.No.	Category	Course Code	Course Title	L	T	P/D	Credits
1	Professional Elective -V	21PS7171 21PE7172 21PS7172	1.Energy Auditing Conservation and Management 2.Electric and Hybrid Vehicles 3.SCADA System and Applications	3	0	0	3
2	Open Elective			3	0	0	3
3	Project Work	21PS7181	Dissertation Work Review - I	0	0	12	6
Total							12

M.TECH - II YEAR II – SEMESTER

R21

S.No.	Category	Course Code	Course Title	L	T	P	Credits
1	Project Work	2PS7281	Dissertation Work Review — II	0	0	12	6
2	Project Work	2PS7282	Dissertation Viva-Voce	0	0	24	14
Total							20