

BRAINWARE UNIVERSITY

School of Engineering

Department of Electrical Engineering

Programme Structure: Master of Technology in Electrical Engineering – Power System

2021

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Course Code	Course Name	L -T -P	Credits	Total Marks
PCC-MPS101	Advanced Power System Analysis	3-0-0	3	100
PCC-MPS102	Research Methodology and IPR	2-0-0	2	100
BSC-MPS 101	Advanced Engineering Mathematics	3-0-0	3	100
PEC-MPS101	Elective – I A. Power System Planning and Reliability B. Power System Apparatus C. Power Quality	3-0-0	3	100
POE-MPS102	Elective – II A. Optimization Techniques B. Digital Signal Processing C. Object Oriented Programming	3-0-0	3	100
PCC-MPS191	Laboratory I Power System Analysis Lab	0-0-4	2	100
PCC-MPS192	Laboratory II Power System and Simulation lab	0-0-4	2	100
	Total	16-0-8	18	700

Semester-I

	Audit I				
MC-MPS181	Α.	Research Paper Writing	2-0-0	0	100
	В.	Constitution of India			



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Course Code	Course Name	L -T -P	Credits	Total Marks
PCC-MPS201	Advanced Power System Protection	3 - 0 - 0	3	100
PCC-MPS202	Power System Operation and Control	3- 0 - 0	3	100
PEC-MPS201	 Elective – III A. Modeling and Simulation of dynamic systems B. Renewable Power Generation & Control C. Smart Grid Technologies 	3 - 0 - 0	3	100
PEC-MPS 202	Elective – IV A. Power System Harmonics B. Energy Management and Audit C. Advanced Electrical Drives	3 - 0 - 0	3	100
PCC-MPS 291	Laboratory III Power System Protection and Simulation Lab	0 - 0 -4	2	100
PCC-MPS 292	Laboratory IV Power Quality Lab	0 - 0 - 4	2	100
PCC-MPS281	Seminar I	0 - 0 - 2	2	100
	Total	14 - 0 - 10	18	700

Semester-II

Audit II MC-MPS281 A. Value Education B. Disaster Management	2 - 0 - 0	0	100
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Semester-III				
Course Code	Course Name	L -T -P	Credits	Total Marks
PEC-MPS301	 Elective – V A. Power System Transients B. FACTS and Custom Power Devices C. Industrial Load Modeling and Control 	3 - 0 - 0	3	100
OEC-MPS301	Elective – VI A. Business Analytics B. Industrial Safety C. Operations Research	3 -0 - 0	3	100
PROJ-MPS381	Dissertation-I	0 - 0 - 20	10	100
	Total	6 - 0 -20	16	300

Semester-III

Semester-IV

Course Code	Course Name	L -T -P	Credits	Total Marks
PROJ-MPS481	Dissertation- II	0 - 0 - 32	16	100
	Total	0 - 0 - 32	16	100