



Dr. B. C. Roy Engineering College, Durgapur
An Autonomous Institute
(approved by AICTE & affiliated to MAKAUT)

Programme Code: 118

Programme : M.Tech in Power Systems

Year (Semester) : 1st Year (1st Semester)

Sl. No.	Broad Category	Course Type	Course Code	Course Name	Contact Hours/Week				Credits
					L	T	P	Total	
A. Theory									
1	ENGG	PC	PSM-101	Advanced Power System	4	0	0	4	4
2	ENGG	PC	PSM-102	Advanced High Voltage Engineering	4	0	0	4	4
3	ENGG	PC	PSM-103	HVDC Transmission and Converters	4	0	0	4	4
4	ENGG	PE	PSM-104	Power System Planning and Reliability	4	0	0	4	4
			PSM-105	Power System Apparatus					
			PSM-106	Power Quality and Audit					
5	ENGG	PE	PSM-114	Soft Computing Techniques	4	0	0	4	4
			PSM-115	Elements of Smart Grid System					
			PSM-116	Condition Monitoring of Power Apparatus					
TOTAL Theory					20	0	0	20	20
B. Practical/Sessional									
1	ENGG	PC	PSM-181	Seminar-I	0	0	0	0	2
2	ENGG	PC	PSM-191	Power System Hardware Lab-I	0	0	3	3	2
3	ENGG	PC	PSM-192	Power System Software Lab-I	0	0	3	3	2
TOTAL Practical/Sessional					0	0	6	6	6
Total of Semester					20	0	6	26	26



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Year (Semester) : 1st Year (2nd Semester)

Sl. No.	Broad Category	Course Type	Course Code	Course Name	Contact Hours/Week				Credits
					L	T	P	Total	
A. Theory									
1	ENGG	PC	PSM-201	Power System Operation and Control	4	0	0	4	4
2	ENGG	PC	PSM-202	Power System Instrumentation	4	0	0	4	4
3	ENGG	PC	PSM-203	Advanced Power System Protection	4	0	0	4	4
4	ENGG	PE	PSM-204	Power System Transients	4	0	0	4	4
			PSM-205	Flexible AC Transmission System					
5	ENGG	PE	PSM-214	Advanced Control System	4	0	0	4	4
			PSM-215	Power System Modelling and Simulation					
TOTAL Theory					20	0	0	20	20
B. Practical									
1	ENGG	PC	PSM-281	Seminar-II	0	0	0	0	2
2	ENGG	PC	PSM-291	Power System Hardware Lab-II	0	0	3	3	2
3	ENGG	PC	PSM-292	Power System Software Lab-II	0	0	3	3	2
TOTAL Practical/Sessional					0	0	6	6	6
Total of Semester					20	0	6	26	26



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Year (Semester) : 2nd Year (1st Semester)

Sl. No.	Broad Category	Course Type	Course Code	Course Name	Contact Hours/Week				Credits
					L	T	P	Total	
A. Theory									
1	HUM	PC	PSM-301	Introduction to Management	4	0	0	4	4
2	ENGG	PE	PSM-302	Renewable Sources of Energy	4	0	0	4	4
			PSM-303	Energy Management					
TOTAL Theory					8	0	0	8	8
B. Practical/Sessional									
1	ENGG	PC	PSM-381	Pre-Submission Defense of Dissertation	0	0	0	0	4
2	ENGG	PC	PSM-382	Dissertation Part-I	0	0	0	0	10
TOTAL Practical/Sessional					0	0	0	0	14
Total of Semester					8	0	0	8	22



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Sl. No.	Broad Category	Course Category	Course Code	Course Name	Contact Hours/Week				Credits
					L	T	P	Total	
A. Practical/Sessional									
1	ENGG	Major	PSM-481	Dissertation (Completion)	0	0	0	0	14
2	ENGG	Major	PSM-482	Post-Submission Defense of Dissertation	0	0	0	0	8
3	ENGG	Major	PSM-483	Comprehensive Viva-Voce	0	0	0	0	4
TOTAL Practical/Sessional					0	0	0	0	26
Total of Semester					0	0	0	0	26