DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
Proposed Course Structure of ME (Electrical Engineering) Programme
(Effective from M0/2011 Session, July, 2011)

Power System Specialization

I Semester

Sr. No.	CODE	Subject	L	T	P	C
1.	MEE 1103	Advanced Digital Signal Processing	3	-	-	3
2.	MEE 1101	Modern Control Theory	3	1	-	4
3.	MEE 1131	Advanced Power System Analysis	3	-	-	3
4.	MEE 1105	Optimization in Engineering Design (A*pplied Sciences Paper*)	3	-	-	3
5.		Elective I	3			3
6.	MEE 1104	Digital Signal Processing Laboratory	-	-	3	2
7.	MEE 1158	Control and Power Electronics Laboratory	-	-	3	2

Total Credit : 20

II Semester

Sr. No.	CODE	Subject	L	T	P	C
1.	MEE 2101	Soft Computing Techniques *	3	1	-	4
2.	MEE 2131	Power System Operation and Control	3	-	-	3
3.	MEE 2137	Power System Dynamics	3	-	-	3
4.		Appropriate Free Electives from other Departments	3	-	-	3
5.		Elective II	3	-	-	3
6.	MEE 2136	Power System Laboratory	-	-	3	2
7.	MEE 2142	Power System Simulation Lab.	-	-	3	2

Total Credit : 20

III Semester

Sr. No.	Subject	L	T	P	C
1.	MEE 3101 Thesis	-	-	-	15

IV Semester

Sr. No.	Subject	L	T	P	C
1.	MEE 3101 Thesis	-	-	-	20

Total Credits - 75

* *Advanced Engineering Science*

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List of Elective -I

Sr. No.	CODE	Subject	L	T	P	C
1.	MEE 1133	EHV AC Power Transmission	3	-	-	3
2.	MEE 1135	Power System Planning and Reliability	3	-	-	3
3.	MEE 1139	Modern Power System Planning	3	-	-	3
4.	MEE 1121	HVDC Power Transmission	3	-	-	3
5.	MEE 1115	Power System Reliability	3	-	-	3

List of Elective - II

Sr. No.	CODE	Subject	L	T	P	C
1.	MEE 2139	Power System Deregulation	3	-	-	3
2.	MEE 2157	Renewable Sources of Electrical Energy	3	-	-	3
3.	MEE 2135	Advanced Power System Protection	3	-	-	3
4.	MEE 2159	Application of Power Electronics in Power System	3	-	-	3
5.	MEE 2115	Embedded System and Applications	3	-	-	3

* Advanced Engineering Science