

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)

Control 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 1119	Control System Design	3	-	-	3
4.	MEE 1105	Optimization in Engineering Design (<i>Applied Sciences Paper</i>)	3	-	-	3
5.		Elective – I	3	-	-	3
6.	MEE 1104	Digital Signal Processing Laboratory	-	-	3	2
7.	MEE 1102	Control System Laboratory	-	-	3	2

Total Credit : 20

II Semester

Sr. No.		Subject	L	T	P	C
1.	MEE 2101	Soft Computing Techniques *	3	1	-	4
2.	MEE 2123	Nonlinear Control Systems	3	-	-	3
3.	MEE 2125	Stochastic Processes	3	-	-	3
4.		Appropriate Free Electives from other Departments	3			3
5.		Elective - II	3	-	-	3
6.	MEE 2124	Advanced Control System Laboratory	-	-	3	2
7.	MEE 2158	Power Electronics and Drives Laboratory	-	-	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 1117	Optimal Control Theory	3	-	-	3
2.	MEE 1109	Robust Control Systems	3	-	-	3
3.	MEE 1107	Pattern Recognition	3	-	-	3
4.	MEE 1111	Estimation and Identification Techniques	3	-	-	3
5.	MEE 1113	Robotics and Artificial Intelligence	3	-	-	3

List of Elective -II

Sr. No.	CODE	Subject	L	T	P	C
1.	MEE 2121	Systems Biology	3	-	-	3
2.	MEE 2117	Microprocessor Application	3	-	-	3
3.	MEE 2115	Embedded System and Applications	3	-	-	3