

M.TECH (Mechanical Engineering) Dr. B. C. Roy Engineering College, Durgapur

CURRICULUM FOR FOUR SEMESTER FULL TIME COURSE

FIRST SEMESTER

TOTAL CREDIT UNIT= 25

		THEORY				
Sl. No.	Subject Code	Subject	Conta	act Ho Veek		Credit Unit
140.	Code		L	T	P	Omt
1	MM(ME)101	Advanced Engineering	3	1	0	4
		Mathematics				
2	MME 101	Advanced Dynamics of	4	0	0	4
		Machinery				
3	MME 102	Advanced Production	4	0	0	4
		Methods				
4	MME 103A		4	0	0	4
	MME 103B	Elective-I				
	MME 103C					
5	MME 104A		4	0	0	4
	MME 104B					
	MME 104C	Elective-II				
	MME 104D					
Total Theory			19	1	0	20
PRACTICAL						
6	MME 191	Advanced Manufacturing	0	0	4	2
		Laboratory				
7	MME 192	Material Testing Laboratory	0	0	4	2
	SESSIONAL					
8	MME 181	Seminar-I	0	0	2	1
	Total Practical				10	5
Total	:					25

SECOND SEMESTER TOTAL CREDIT UNIT= 25

Sl. No.	Subject Code	Subject	Contact Hours per Week			Credit Unit	
110.	Code		L	T	P	UIIIt	
1	MME 201	Advanced Machine Design	4	0	0	4	
2	MME 202	Production & Operation	4	0	0	4	
		Management					



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3	MME 203A		4	0	0	4
	MME 203B	Elective-III				
	MME 203C	Elective-III				
	MME 203D					
4	MME 204A		4	0	0	4
	MME 204B	Elective-IV				
	MME 204C	Licetive-iv				
	MME 204D					
5	MME 205A		4	0	0	4
	MME 205B	Elective-V				
	MME 205C	Licetive-v				
	MME 205D					
Total Theory				0	0	20
**** Electives to be chosen from list of elective subjects on page 3 PRACTICAL						
6	MME 291	Advanced Machine Design	0	0	4	2
		Laboratory.				
SESSIONAL						
7	MME 281	Seminar-II	0	0	2	1
8	MME 282	Comprehensive Viva Voce	0	0	0	2
Total	Total Practical			0	6	5
Total:						25

THIRD SEMESTER TOTAL CREDIT UNIT= 25

Sl.	Subject Code	Subject	Contact H Week	Credit		
No.	Code	-	L	T	P	Unit
1	MME 381	Project & Thesis (Phase-I)	-	1		20
2	MME 382	Seminar & Viva-Voce	4	0		5
Total:						25

FOURTH SEMESTER

TOTAL CREDIT UNIT= 25

Sl. No.	Subject Code	Subject	Lecture	Sessional	Credit Unit
1	MME 481	Project & Thesis (Phase-II)	-	-	20
2	MME 482	Seminar & Viva-Voce	4	0	5
Total:					



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LIST OF COMPULSORY SUBJECTS

Sl. No.	Subject Code	Subject
1	MM(ME)101	Advanced Engineering Mathematics
2	MME101	Advanced Dynamics of Machinery
3	MME 102	Advanced Production Methods
4	MME 201	Advanced Machine Design
5	MME 202	Production & Operation Management

LIST OF ELECTIVE SUBJECTS

	Elective - I						
Sl. No.	Subject Code	Subject					
1	MME 103A	Advanced Metal Cutting Theory					
2	MME 103B	Production Tooling & Equipment					
3	MME 103C	Advanced Machining Process					
	Elective - II						
Sl. No.	Subject Code	Subject					
4	MME 104A	Numerical Method & Optimization Technique					
5	MME 104B	Advanced CAD/CAM					
6	MME 104C	Production Planning & Control					
7	MME 104D	Conduction and Radiation Heat Transfer					
		Elective - III					
Sl. No.	Subject Code	Subject					
8	MME 203A	Design of Material Handling Equipment					
9	MME 203B	Theory of Elasticity & Plasticity					
10	MME 203C	Design & Performance of Machine tool					
11	MME 203D	Advanced Welding Technology					
		Elective - IV					
Sl. No.	Subject Code	Subject					
12	MME 204A	Advanced Robotics					
13	MME 204B	Engineering Fracture Mechanics					
14	MME 204C	Finite Element Method in Engineering					
15	MME 204D	Composite Material & Structure					
	Elective - V						
Sl. No.	Subject Code	Subject					
16	MME 205A	Advanced Metrology					
17	MME 205B	Value & Ethics in Industrial management					
18	MME 205C	Statistical Process Control					
19	MME 205D	Engineering System & Control					