

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 per V	act Ho Veek	urs	Credit Unit
190.			L	Т	P	Unit
1	MM(ME)101	Advanced Engineering Mathematics	3	1	0	4
2	MME 101	Advanced Dynamics of Machinery	4	0	0	4
3	MME 102	Advanced Production Methods	4	0	0	4
4	MME 103A MME 103B MME 103C	Elective-I	4	0	0	4
5	MME 104A MME 104B MME 104C MME 104D	Elective-II	4	0	0	4
	Total Theory				0	20
		PRACTICA	L			
6	MME 191	Advanced Manufacturing Laboratory	0	0	4	2
7	MME 192	Material Testing Laboratory	0	0	4	2
	1	SESSIONAI				
8	MME 181	Seminar-I	0	0	2	1
	Т	otal Practical	0	0	10	5
Total	:					25

SECOND SEMESTER TOTAL CREDIT UNIT= 25

Sl. No.	Subject Code			Contact Hours per Week		Credit Unit	
No. Code			L	Т	Р	Unit	
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 203R					I
	MME 203C	Elective-III				
	MME 203D					
4	MME 204A		4	0	0	4
	MME 204B					
	MME 204C	Elective-IV				
	MME 204D					
5	MME 205A		4	0	0	4
	MME 205B	Elective-V				
	MME 205C	Elective-v				
	MME 205D					
Total Theory 20 0					0	20
**** Electives to be chosen from list of elective subjects on page 3 <u>PRACTICAL</u>						
6	MME 291	Advanced Machine Design	0	0	4	2
		Laboratory.				2
	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						25

THIRD SEMESTER TOTAL CREDIT UNIT= 25

SI.	Subject Code		Contact H Week	Contact Hours per Week			
No. Code			L	Т	P	Unit	
1	MME 381	Project & Thesis (Phase-I)	-	-		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:					25

Total Credit Unit of the course: 100



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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				
	1	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				