

Integrated Dual Degree B. Tech. + M. Tech. / MBA - I Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type
Theory Courses					
1	PH 102	Engineering Physics	3-1-0	4	FC-C1
2	MA 101	Engineering Mathematics -I	3-1-0	4	FC-C2
3	ME 101	Engineering Mechanics	2-1-0	3	FC-C3
4	CS 101	Computer Programming -I	2-0-0	2	SEC1
5	EE 102	Electrical Technology	2-0-0	2	FC-C4
6	HU 101	English Proficiency	2-0-0	2	AECC1
7		Open Elective I	2-0-0	2	OE1
Practical Labs					
8	PH 104	Engineering Physics Lab	0-0-2	1	FC-C5
9	ME 102	Engineering Workshop	0-0-3	2	CC-C6
10	CS 181	Computer Programming Lab -I	0-0-2	1	SEC2
11	EE 104	Electrical Technology Lab	0-0-2	1	FC-C7
12	GP	General Proficiency		NC	
		Total Credits		25	
		Total Contact Hours	16-3-10		

Open Elective I: Courses offered from other schools

Integrated Dual Degree B. Tech. + M. Tech. / MBA -II Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type
Theory Courses					
1	CY 101	Engineering Chemistry	3-1-0	4	FC-C8
2	MA 102	Engineering Mathematics -II	3-1-0	4	FC-C9
3	ES 101	Environmental Studies	2-1-0	3	AECC2
4	CS 102	Computer Programming -II	2-0-0	2	SEC3
5	EC 101	Basic Electronics	2-0-0	2	FC-C10
6	HU 102	Professional Communication	2-0-0	2	AECC3
7	SS 101	Human Values & Buddhist Ethics	2-0-0	2	AECC4
Practical Labs					
8	CY 103	Engineering Chemistry Lab	0-0-2	1	FC-C11
9	CE 103	Engineering Graphics	0-0-3	2	SEC 4
10	EC 181	Basic Electronics Lab	0-0-2	1	FC-C12
11	CS 182	Computer Programming Lab -II	0-0-2	1	SEC5
12	GP	General Proficiency		NC	
		Total credits		25	
		Total Contact Hours	16-3-10		

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Integrated Dual Degree B. Tech. + M. Tech. / MBA - III Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type
Theory Courses					
1	MA 201	Engineering Mathematics- III	3-1-0	4	FC-C13
2	ME 201	Material Science	2-0-0	2	CC-C14
3	ME 203	Manufacturing Technology -I	3-0-0	3	CC-C15
4	ME 205	Kinematics of Machines	2-1-0	3	CC-C16
5	ME 207	Engineering Thermodynamics	2-1-0	3	CC-C17
6	ME 209	Strength of Materials- I	3-1-0	4	CC-C18
7		Open Elective II		3	OE2
Practical Labs					
8	ME 211	Manufacturing Technology Lab -I	0-0-3	2	CC-C19
9	ME 213	Strength of Materials Lab	0-0-2	1	CC-C20
10	ME 215	Machine Drawing	1-0-2	2	CC-C21
11	GP	General Proficiency		NC	
Total Credits				27	
Total Contact Hours			16-4-7		

Open Elective II: Courses offered from other schools

Integrated Dual Degree B. Tech. + M. Tech. / MBA - IV Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type
Theory Courses					
1	MA 202	Quantitative Techniques <i>Numerical & Statistical Analysis</i>	3-1-0	4	FC-C22
2	ME 202	Manufacturing Technology - II	3-0-0	3	CC-C23
3	ME 204	Dynamics of Machines	3-1-0	4	CC-C24
4	ME 206	Applied Thermodynamics	2-1-0	3	CC-C25
5	ME 208	Fluid Mechanics	3-1-0	4	CC-C26
6	ME 210	Mechanical Measurements & Instrumentation	2-0-0	2	CC-C27
Practical Labs					
7	ME 212	Fluid Mechanics Lab	0-0-2	1	CC-C28
8	ME 214	Dynamics of Machines Lab	0-0-2	1	CC-C29
9	ME 216	Mechanical Measurements & Instrumentation Lab	0-0-2	1	CC-C30
10	GP 202	General Proficiency		NC	
Total Credits				23	
Total Contact Hours			16-4-6		

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Integrated Dual Degree B. Tech. + M. Tech. / MBA - V Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type
Theory Courses					
1	ME 301	Heat and Mass Transfer	3-1-0	4	CC-C31
2	ME 303	Machine Design -I	3-1-0	4	CC-C32
3	ME 305	Strength of Materials- II	2-1-0	3	CC-C33
4	ME 307	Fluid Machines	3-0-0	3	CC-C34
5	ME 309	IC Engines and Gas Turbines	3-1-0	4	CC-C35
Practical Labs					
7	ME 311	Heat and Mass Transfer Lab	0-0-2	1	CC-C36
8	ME 313	Fluid Machines Lab	0-0-3	2	CC-C37
9	ME 315	Applied Thermodynamics Lab	0-0-3	2	CC-C38
10	GP	General Proficiency		NC	
Total Credits				23	
Total Contact Hours			14-4-8		

Integrated Dual Degree B. Tech. + M. Tech. / MBA - VI Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type
Theory Courses					
1	ME 302	Mechanical Vibrations	3-1-0	4	CC-C39
2	ME 304	Machine Design -II	2-2-0	4	CC-C40
3	ME 306	Refrigeration and Air Conditioning	3-1-0	4	CC-C41
4	ME 308	Automobile Engineering	3-0-0	3	CC-C42
5	ME 310	Industrial Engineering	3-0-0	3	CC-C43
6	CE 318	Disaster Management	2-0-0	2	SEC6
Practical Labs					
7	ME 312	Mechanical Vibrations Lab	0-0-2	1	CC-C44
8	ME 314	Refrigeration and Air Conditioning Lab	0-0-2	1	CC-C45
9	ME 316	Automobile Engineering Lab	0-0-2	1	CC-C46
10	GP	General Proficiency		NC	
Total Credits				23	
Total Contact Hours			16-4-6		

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Integrated Dual Degree B. Tech. + M. Tech. / MBA - VII Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type
Theory Courses					
1	ME 401	Power Plant Engineering	3-1-0	4	CC-C47
2	ME 403	Computer Aided Design	3-1-0	4	CC-C48
3	MA 406 / MA 402/ MA 507	Operation Research/ Modeling and Simulation/ Optimization Techniques	3-1-0	4	GE
4		Elective -I	3-0-0	3	DSE1
5		Elective -II	3-0-0	3	DSE2
Practical Labs					
6		M. Tech. Specialization Lab I	0-0-3	2	DSE3
7	ME 413	Computer Aided Design Lab	0-0-3	2	CC-C49
8	ME 500	Seminar	0-0-3	2	SEC7
9	GP	General Proficiency		NC	
10					
Total Credits				24	
Total Contact Hours			15-3-9		

Integrated Dual Degree B. Tech. + M. Tech. / MBA - VIII Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Type
	(Same As per II semester of M. Tech. Two Year Programme of Corresponding Specialization)				
Summer Semester for Integrated course					
Industrial Training/ Summer Project (4-6 weeks) of 5 credits will be carried out by students during summer vacation at the end of VIII semester in various industries / projects. The evaluation will be carried out in IX semester. The credits will be added in the IX semesters. Students opting MBA specialization should also carry out the industrial training program also.					
ME 600/ ME 600/ ME 600	Industrial Training/ Project	Summer	4-6 Weeks	5	DP3

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Integrated Dual Degree B. Tech. + M. Tech. / MBA - IX Semester (Same As per III semester of M. Tech. Two Year Programme of Corresponding Specialization)					
S. No.	Course Code	Name of Course	L-T-P	Credits	Type
	(Same As per III semester of M. Tech. Two Year Programme of Corresponding Specialization)				

Integrated Dual Degree B. Tech. + M. Tech. / MBA - X Semester					
S. No.	Course Code	Name of Course	L-T-P	Credits	Type
	(As per III semester of M. Tech. Two Year Programme of Corresponding Specialization)				

Integrated Dual Degree B. Tech. + M. Tech. -I to X Semester

Type of Courses	Ability Enhancement Courses		Core Courses		Elective Courses			Open Elective	Total
	AECC	SEC	FC	CC	E-DSE	E-D/P	E-GE		
I	4	4	15	2					25
II	5	4	12	2				2	25
III			4	20				3	27
IV			4	19					23
V				23					23
VI		2		21					23
VII				14	6		4		24
VIII				13	6	5			24
IX				8	3	13			24
X						22			22
Total	9	10	35	123	15	39	4	5	240

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