

DEPARTMENT OF MECHANICAL ENGINEERING

<i>Curriculum for the five year Dual Degree program (CIM)</i>											
Semester I						Semester – II					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
MA 105	Calculus	3	1	0	8	MA 106	Linear Algebra	2	0	0	4
PH 107	Quantum Physics	2	1	0	6	MA 108	Ordinary Differential Equations	2	0	0	4
CH 105	Organic Chemistry & Inorganic Chemistry	2	0	0	4	PH 108	Electricity and Magnetism	2	1	0	6
CH 107	Physical Chemistry	2	0	0	4	ME 119	Engineering Graphics & Drawing	0	1	3	5
CS 101/ BB 101	Computer Programming/ Biology	2	1	0	6	CS 101/ BB 101	Computer Programming/ Biology	2	1	0	6
ME 113	Workshop Practice	1	0	3	4	CE 102	Engineering Mechanics	2	1	0	6
PH 117/ CH 117	Physics Lab Chemistry Lab	0	0	3	3	PH 117/ CH 117	Physics Lab Chemistry Lab	0	0	3	3
NC 101	National Cadet Corps (NCC)	0	0	0	P/NP	NC 102	National Cadet Corps (NCC)	0	0	0	P/NP
NO 101	National Sports Organization (NSS)	0	0	0	P/NP	NO 102	National Sports Organization (NSS)	0	0	0	P/NP
NS 101	National Service Scheme (NSS)	0	0	0	P/NP	NS 102	National Service Scheme (NSS)	0	0	0	P/NP
	Total Credits				35		Total Credits				34

Curriculum for the five year Dual Degree program (CIM)

Semester III						Semester – IV					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
ME 201	Solid Mechanics	2	1	0	6	ME 202	Strength of Materials	2	1	0	6
ME 209	Thermodynamics	2	1	0	6	ME 226	Mechanical Measurement	2	1	0	6
EE 101	Introduction to Electrical and Electronics Circuits	3	1	0	8	ME 206	Manufacturing Processes I	2	1	0	6
MM 207	Engineering Metallurgy	2	1	0	6	MA 214	Numerical Analysis	3	1	0	8
ME 219	Fluid Mechanics	3	1	0	8	ME 224	Fluid Mechanics Lab.	0	0	3	3
HS 101	Economics	2	1	0	6	ME 218	Solid Mechanics Lab	0	0	3	3
						ME 213	Manufacturing Practice Lab				5
Total						Total					
40						37					

Curriculum for the five year Dual Degree program (CIM)

Semester V						Semester – VI					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
ME 346	Heat Transfer	2	1	0	6	ME 306	Applied Thermodynamics	2	1	0	6
ME 311	Microprocessor and Automatic Controls	2	1	0	6	ME 316	Kinematics and Dynamics of Machines	2	1	0	6
ME 338	Manufacturing Processes II	2	1	0	6						
HS 303	Psychology or Sociology	3	0	0	6	ES 200	Environmental studies, Sci & Eng	3	0	0	3
ME 374	Manufacturing Processes Lab	0	0	3	3	HS 200	Environmental Studies	3	0	0	3
ME XXX	Mechanical Measurements Lab	0	0	3	3	ME 370	Kinematics and Dynamics of Machines Lab	0	0	3	3
	Department Elective I	3	0	0	6	ME 372	Heat Transfer and Metrology Lab	0	0	3	3
	Department Elective II	3	0	0	6	ME 308	Industrial Engg. and Operations Research	2	1	0	6
						ME 310	Microprocessor and Automatic Controls Lab.	0	0	3	3
						ME714	Computer Integrated Manufacturing	3	0	0	6
Total		42				Total		39			

Curriculum for the five year Dual Degree program (CIM)

Semester VII						Semester – VIII						
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure				
		L	T	P	C			L	T	P	C	
ME 423	Machine Design	2	1	2	8		Department Elective VI	3	0	0	6	
	Department Elective III	3	0	0	6		Department Elective VII	3	0	0	6	
	Department Elective IV	3	0	0	6		Department Elective VII	3	0	0	6	
	Department Elective V	3	0	0	6		Department Elective IX	3	0	0	6	
	<u>ME 409</u>					6		Department Elective X	3	0	0	6
	Institute Elective I	3	0	0	6		Institute Elective II	3	0	0	6	
ME 441	Applied Thermodynamics Lab	0	0	3	3							
Total		41				Total		36				

Curriculum for the five year Dual Degree program (CIM)

Semester IX						Semester X					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
	Department Elective XI	3	0	0	6	ME	Dual Degree Project (Stage II)	0	0	0	42
	Department Elective XII	3	0	0	6						
ME	Dual Degree Project (Stage I)	0	0	0	30						
Total					42	Total					42