DEPARMENT OF MECHANICAL ENGINEERING

	Curi	riculu	m for	r the j	five ye	ar Dual De	gree program (TFE)								
	Semester I						Semester – II	Credit Structure L T P C 2 0 0 4 2 0 0 4 2 1 0 6 3 5 2 1 0 6 2 1 0 6 0 0 3 3 0 0 0 P/NP							
Course code	Course Name	C	redit	Struc	ture	Course Code	Course Name	Credit Structure							
		L	T	P	C			L	T	P	С				
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				

DEPARMENT OF MECHANICAL ENGINEERING

	Си	rricului	m for	the fi	ve ye	ar Dual Degi	ree program (TFE)								
	Semester III					Semester – IV			P C 0 6 0 6 0 8 3 3 3 3						
Course code	Course Name	Cı	redit S	Struct	ure	Course Code	Course Name	C	Credit Structu						
		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	-	'			40	Total	,	'	1		37				

	Curr	iculu	m for	the fi	ive ye	ar Dual Degi	ree program (TFE)					
	Semester V					ME 316 Kinematics and Dynamics of Machines 2 1 0 6 ES 200 Environmental studies, Science & Engineering HS 200 Environmental Studies 3 0 0 3 ME 370 Kinematics and Dynamics of Machines Lab ME 372 Heat Transfer and Metrology Lab 0 0 3 3 ME 308 Industrial Engg. and Operations Research 2 1 0 6						
Course code	Course Name	Cı	redit S	Struct	ure		Course Name	C	redit S	Struct	ure	
		L	T	P	C			L	T	P	C	
ME 346	Heat Transfer	2	1	0	6	ME 306	Applied Thermodynamics	2	1	0	6	
ME311	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	,	3	0	0	3	
						HS 200	Environmental Studies	3	0	0	3	
ME 374	Manufacturing Processes Lab	0	0	3	3	ME 370	•	0	0	3	3	
ME 307	Mechanical Measurements Lab	0	0	3	3	ME 372	Heat Transfer and Metrology Lab	0	0	3	3	
ME 661	Advanced Thermodynamics	3	0	0	6	ME 308		2	1	0	6	
ME 651	Fluid Dynamics	2	1	0	6	ME 310	Microprocessor and Automatic Controls Lab.	0	0	3	3	
							Department Elective I	3	0	0	6	
Total					42	Total					39	

	Cur	riculu	m for	the fi	ve ye	ar Dual Degi	ree program (TFE)							
	Semester VII					Semester – VII	I	Credit Structure L T P C 3 0 0 6 3 0 0 6 3 0 0 6 3 0 0 6 3 0 0 6 3 0 0 6 3 0 0 6						
Course code	Course Name	Cı	redit S	Structi	ure	Course Code	Course Name	Cı	redit S	Structi	ire			
		L	T	P	C			L	T	P	C			
ME 423	Machine Design	2	1	2	8									
							Department Elective IV	3	0	0	6			
	Department Elective II	3	0	0	6		Department Elective V	3	0	0	6			
	Department Elective III Institute Elective I	3 3	0	0	6		Department Elective VI	3	0	0	6			
	mstitute Elective I	3	U	U	6		Department Elective VII	3	0	T P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6			
							Institute Elective II	3	0	0	6			
ME 441	Applied Thermodynamics Lab	0	0	3	3	ME 657	TFE Lab.	3	0	0	6			
ME 663	Advanced Heat Transfer	3	0	0	6									
ME 704	Computational methods in thermal and fluid engineering	1	0	4	6									
Total					41	Total					36			

	Си	rriculu	m for	the fi	ve yea	r Dual Deg	ree program (TFE)									
	Semester IX					Semester X		redit Structure T P C 0 0 42								
Course code	Course Name	C	redit S	Structi	ure	Course Course Name		Credit Structure								
		L	T	P	C			L	T	P	C					
	Department ElectiveVIII	3	0	0	6	ME	Dual Degree Project (Stage II)	0	0	0	42					
	Department ElectiveIX	3	0	0	6											
ME	Dual Degree Project (Stage I)	0	0	0	30*											
Total		·			Total 42											