

**Program Structure –
B.Tech (Mechanical Engineering)
(Program Code – FST002)
AY: 2018-19**

		SEMESTER I(Total 7)			SEMESTER II(Total 8)						
	Course No	Course Title	L	P	U	Course No	Course Title	L	P	U	
YEAR I	CH111	Chemistry	3	0	3	ES111	Thermodynamics	3	0	3	
	EGL111	English Language Skills	3	0	3	ES121	Engineering Mechanics	3	0	3	
	MA111	Mathematics -I	3	0	3	MA121	Mathematics II	3	0	3	
	PH111	Physics - I	3	0	3	PH121	Physics II	3	0	3	
	TA102	Workshop	2	4	4	TA101	Engineering Graphics	2	4	4	
	TA104	Physical Sciences Lab -I	0	2	1	TA105	Physical Sciences Lab -II	0	2	1	
	ENV122	Environmental Science	3	0	3	TA121T	C Programming	3	0	3	
						TA121P	C Programming Practical	0	3	2	
			Total Units	20				Total Units	22		
		SIP101	Summer Internship Program I						0	0	5
		SEMESTER III(Total 8)			SEMESTER IV(Total 9)						
YEAR II		Course No	Course Title	L	P	U	Course No	Course Title	L	P	U
		ES211T	Basic Electrical and Electronics Engineering	3	0	3		Humanities Elective I	3	0	3
		ES 211P	Basic Electrical and Electronics Engineering Practical	0	3	2	MA212	Probability and Statistics	3	0	3
		ES212	Structure & properties of materials	3	0	3	ME221	Applied Thermodynamics	3	0	3


Registrar.
 ICFAI University Tripura
 Kamalghat, Tripura (West)

MA211	Mathematics III	3	0	3	ES223T	Fluid Mechanics	3	0	3	
CS212T	Object oriented Programming through C++	3	0	3	ES223P	Fluid Mechanics Practical	0	3	2	
CS212P	Object oriented Programming through C++ Practical	0	3	2	ES222T	Mechanics of Solids	3	0	3	
ME212	Machine Drawing	1	6	5	ES222P	Mechanics of Solids Practical	0	3	2	
EGL233	Technical Report Writing	3	0	3	ME224T	Mechanical Measurement	3	0	3	
	Total Units			24	ME224P	Mechanical Measurement Practical	0	3	2	
						Total Units			24	
Summer Term	SIP201	Summer Internship Program II			0 0 5					
		SEMESTER V(Total 9)			SEMESTER VI(Total 9)					
YEAR III	Course No	Course Title	L	P	U	Course No	Course Title	L	P	U
	MA309	Numerical Analysis	3	0	3	ME311	Design of Machine Elements	3	0	3
	ME312T	IC engines	3	0	3	ME325T	Machine Tools	3	0	3
	ME312P	IC engines Practical	0	3	2	ME325P	Machine Tools Practical	0	3	2
	ES311T	Hydraulics & Hydraulic Machines	3	0	3	ME324T	Heat and Mass Transfer	3	0	3
	ES311P	Hydraulics & Hydraulic Machines Practical	0	3	2	ME324P	Heat and Mass Transfer Practical	0	3	2
	ME314T	Production Techniques	3	0	3	ME326T	Control System Engineering	3	0	3
	ME314P	Production Techniques Practical	0	3	2	ME326P	Control System Engineering	0	3	2

Registrar,
ICFAI University Tripura (West)
Kamalgahat, Tripura (West)

YEAR IV		SEMESTER VII(Total 7)			SEMESTER VIII(Total 9)				
ME321	Kinematics of Machinery	3	0	3	ME323	Dynamics of Machinery and Vibrations	3	0	3
SSU354	Soft Skills	3	0	2		Humanities Elective II	3	0	3
	Total Units	23				Total Units	24		
SIP301	Summer Internship Program III				0 0 5				
	SEMESTER VII(Total 7)			SEMESTER VIII(Total 9)					
Course No	Course Title	L	P	U	Course No	Course Title	L	P	U
ME411	Computational Fluid Dynamics (Elective I)	3	0	3	ME 401	Production Planning and Control	3	0	3
ME419	Quality Assurance & Reliability	3	0	3	ME426	Automotive Engineering	3	0	3
ME422	Unconventional Machining	3	0	3	ME429T	Finite Element Methods	3	0	3
ME425	Power Plant Engineering	3	0	3	ME429P	Finite Element Methods Practical	0	3	2
ME427T	Metrology	3	0	3	ME424T	Refrigeration and Air-Conditioning	3	0	3
ME427P	Metrology Practical	0	3	2	ME424P	Refrigeration and Air-Conditioning Practical	0	3	2
ME491	Special Projects I	0	0	5	ME492	Special Projects II	0	0	5
	Total Units	22			GV404	Grand Viva	0	0	3
	Total Units	22				Total Units	24		


 Registrar,
 ICFAI University Tripura
 Kamalghat, Tripura (West)

List of Electives 4th Year Semester-I

Course Code	Course Title	L	P	U
ME411	Computational Fluid Dynamics	3	0	3
ME416	Non Conventional Sources of Energy	3	0	3
ME402	Computer Aided Manufacturing	3	0	3
ME412	Cryogenics	3	0	3
ME415	Nanotechnology	3	0	3
ME417	Principles of Entrepreneurship	3	0	3
ME418	Principles of Tribology	3	0	3

List of Electives 4th Year Semester-II

Course Code	Course Title	L	P	U
ME423	Advances in Material Science	3	0	3
ME429	Finite Element Methods	3	0	3
ME420	Robotics & Automation	3	0	3
ME421	Smart Materials and Devices	3	0	3
ME428	Heat Transfer II	3	0	3


 Registrar,
 ICFAI University Tripura
 Kamalghat, Tripura (West)