

B-Tech in Mechanical Engineering

Curriculum and Syllabus

Semester 1				Semester 2			
Course Code	Course name	L-T-P	Credits	Course Code	Course name	L-T-P	Credits
MA 101	Calculus	3-1-0	4	MA 102	Differential Equations	3-1-0	4
CY 100	Engineering Chemistry	3-1-0	4	PH 100	Engineering Physics	3-1-0	4
BE 100	Engineering Mechanics	3-1-0	4	BE 110	Engineering Graphics	1-1-3	3
BE 101-02	Introduction to Mechanical Engineering Sciences	2-1-0	3	BE 102	Design & Engineering	2-0-2	3
BE 103	Introduction to Sustainable Engineering	2-0-1	3	CE 100	Basics of Civil Engineering	2-1-0	3
EE 100	Basics of Electrical Engineering	2-1-0	3	EC 100	Basics of Electronics Engineering	2-1-0	3
CY 110	Engineering Chemistry Lab	0-0-2	1	PH 110	Engineering Physics Lab	0-0-2	1
ME 110 / EE 110	Mechanical Engineering / Electrical Engg. Work Shop	0-0-2	1	CE 110 / EC 110	Civil Engineering / Electronics Engg. Work Shop	0-0-2	1

Semester 3				Semester 4			
Course Code	Course name	L-T-P	Credits	Course Code	Course name	L-T-P	Credits
MA 201	Linear Algebra & Complex Analysis	3-1-0	4	MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4
ME 201	Mechanics of Solids	3-1-0	4	ME202	Advanced Mechanics of Solids	3-1-0	4
ME 203	Mechanics of Fluids	3-1-0	4	ME204	Thermal Engineering	3-1-0	4
ME 205	Thermodynamics	3-1-0	4	ME206	Fluid Machinery	2-1-0	3
ME 210	Metallurgy and Materials Engineering	3-0-0	3	ME220	Manufacturing Technology	3-0-0	3
HS 210	Life Skills	2-0-2	3	HS 200	Business Economics	3-0-0	3
ME 231	Computer Aided Machine Drawing Lab	0-0-3	1	ME232	Thermal Engineering Lab	0-0-3	1
CE 230	Material Testing Lab	0-0-3	1	ME230	Fluid Mechanics & Machines Lab	0-0-3	1

Semester 5				Semester 6			
Course Code	Course name	L-T-P	Credits	Course Code	Course name	L-T-P	Credits
EN010 501A	Engineering Mathematics IV	2-2-0	4	ME 010 601	Mechanics of Machines	3-1-0	4
ME 010 502	Computer Aided Design & Manufacturing	3-1-0	4	ME 010 602	Heat & Mass transfer	3-1-0	4
ME 010 503	Advanced Mechanics of Materials	2-2-0	4	ME 010 603	Thermal Systems & Applications	3-1-0	4
ME 010 504	Kinematics of Machinery	3-1-0	4	ME 010 604	Metrology & Machine Tools	3-1-0	4
ME 010 505	I.C.Engines & Combustion	3-1-0	4	ME 010 605	Mechatronics & Control System	3-1-0	4
ME 010 506	Thermodynamics	3-1-0	4	ME 010 606Lxx	Elective I	2-2-0	4
ME 010 507	CAD/CAM Lab	0-0-3	2	ME 010 607	Heat Engines Lab	0-0-3	2
ME 010 508	Electrical & Electronics Lab	0-0-3	2	ME 010 608	Machine Tools Lab	0-0-3	2

Semester 7				Semester 8			
Course Code	Course name	L-T-P	Credits	Course Code	Course name	L-T-P	Credits
ME010701	Design Of Machine Elements	2-1-1	4	ME010 801	Design Of Transmission Elements	2-2-1	4
ME010702	Dynamics Of Machines	2-2-0	4	ME010 802	Operations Management	2-2-0	4
ME010703	Gas Dynamics And Jet Propulsion	2-1-0	3	ME010 803	Production Engineering	2-2-0	4
ME010704	Refrigeration And Air Conditioning	2-1-0	3	ME010 804Lxx	Elective III	3-1-0	4
ME010705	Industrial Engineering	2-1-0	4	ME010 805Gxx	Elective IV	2-2-0	4
ME010706 Lxx	Elective II	2-2-0	4	ME010 806	Mechanical Systems Lab	0-0-3	2
ME010707	Mechanical Measurements Lab	0-0-3	2	ME010 807	Project	0-0-6	4
ME010708	Advanced Machine Tools Lab	0-0-3	2	ME010 808	Viva Voce	0-0-0	2
ME010709	Seminar	0-0-2	2				
ME010710	Project	0-0-1	1				