



Sandip University
 Neelam Vidya Vihar, Vill.: Sijoul. P.O. : Mailam, Dist.:Madhubani, Bihar -847235
 Website : <http://www.sandipuniversity.edu.in> Toll-Free No.- 1800-313-714
DEPARTMENT OF MECHANICAL ENGINEERING

School of Engineering
Course Structure for Undergraduate Programme of Bachelor of Mechanical Engineering(B.Tech.)
Semester – III

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	Tu	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	ME 301T	Engineering Mathematics -III	3	1	--	4	4	2.5	40	60	--	--	100
02	ME 302T	Mechanics of Solids	3	1	--	4	4	2.5	40	60	--	--	100
03	ME 303T	Metallurgy and Material Science	3	--	--	3	3	2.5	40	60	--	--	100
04	ME 304T	Basic Thermodynamics	3	1	--	4	4	2.5	40	60	--	--	100
05	ME 305T	Electrical Technology	3	--	--	3	3	2.5	40	60	--	--	100
06	ME 306P	Mechanics of Solids Lab	--	--	3	3	1	--	--	--	25	25	50
07	ME 307P	Machine Drawing & CAD Lab	--	--	3	3	1	--	--	--	25	25	50
08	ME 308P	Electrical Technology Lab	--	--	3	3	1	--	--	--	25	25	50
Total			16	04	06	27	21		200	300	75	75	650

CIA	Continuous Internal Assessment	Th	Theory
L	Lecture	P	Practical
Tu	Tutorial	TW	Term Work



Sandip University

Neelam Vidya Vihar, Vill.: Sijoul. P.O. : Mailam, Dist.:Madhubani, Bihar -847235
 Website : <http://www.sandipuniversity.edu.in> Toll-Free No.- 1800-313-714

DEPARTMENT OF MECHANICAL ENGINEERING

School of Engineering

Course Structure for Undergraduate Programme of Bachelor of Mechanical Engineering(B.Tech.) Semester – IV

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	Tu	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	ME 401T	Numerical Methods and Computation	3	--	--	3	3	2.5	40	60	--	--	100
02	ME 402T	Kinematics of Machinery	3	1	--	4	4	2.5	40	60	--	--	100
03	ME 403T	Thermal Engineering	3	1	--	4	4	2.5	40	60	--	--	100
04	ME 404T	Fluid Mechanics	3	1	--	4	4	2.5	40	60	--	--	100
05	ME 405T	Manufacturing Process I	3	1	--	4	4	2.5	40	60	--	--	100
06	ME 406P	Manufacturing Process Lab	--	--	3	3	1	--	--	--	25	25	50
07	ME 407P	Computer Aided Modeling & Drafting lab	--	--	3	3	1	--	--	--	25	25	50
08	ME 408P	Fluid Mechanics Lab	--	--	3	3	1	--	--	--	25	25	50
09	ME 409P	Internship Training(4weeks)	--	--	--	--	3	--	--	--	--	--	--
Total			15	4	09	28	25		200	300	75	75	650

CIA	Continuous Internal Assessment	Th	Theory
L	Lecture	P	Practical
Tu	Tutorial	TW	Term Work



Sandip University

Neelam Vidya Vihar, Vill.: Sijoul. P.O. : Mailam, Dist.:Madhubani, Bihar -847235
 Website : <http://www.sandipuniversity.edu.in> Toll-Free No.- 1800-313-714

DEPARTMENT OF MECHANICAL ENGINEERING

School of Engineering
Course Structure for Undergraduate Programme of Bachelor of Mechanical Engineering(B.Tech.)
Semester – V

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	Tu	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	ME 501T	Measurement and Metrology	3	1	--	4	4	2.5	40	60	--	--	100
02	ME 502T	Dynamics of Machinery	3	1	--	4	4	2.5	40	60	--	--	100
03	ME 503T	Engineering Economics	3	--	--	3	3	2.5	40	60	--	--	100
04	ME 504T	Design of Machine Elements I	3	1	--	4	4	2.5	40	60	--	--	100
05	ME 505TE	Professional Elective - I	3	--	--	3	3	2.5	40	60	--	--	100
06	ME 506P	Thermal Engineering Lab	--	--	3	3	1	--	--	--	25	25	50
07	ME 507P	Measurement and Metrology Lab	--	--	3	3	1	--	--	--	25	25	50
08	ME 508P	Computational Mechanical Engineering Lab	--	--	3	3	1	--	--	--	25	25	50
Total			15	3	9	27	21		200	300	75	75	650

CIA	Continuous Internal Assessment	Th	Theory	Professional Elective –I
L	Lecture	P	Practical	Refrigeration and Air Conditioning
Tu	Tutorial	TW	Term Work	Gas Dynamics
				Renewable Energy Sources



Sandip University

Neelam Vidya Vihar, Vill.: Sijoul. P.O. : Mailam, Dist.:Madhubani, Bihar -847235
 Website : <http://www.sandipuniversity.edu.in> Toll-Free No.- 1800-313-714

DEPARTMENT OF MECHANICAL ENGINEERING

School of Engineering

Course Structure for Undergraduate Programme of Bachelor of Mechanical Engineering(B.Tech.)

Semester – VI

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	Tu	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	ME 601T	Operations Research	3	--	--	3	3	2.5	40	60	--	--	100
02	ME 602T	Design of Machine Elements II	3	--	--	3	3	2.5	40	60	--	--	100
03	ME 603T	Heat Transfer	3	--	--	3	3	2.5	40	60	--	--	100
04	ME 604T	Manufacturing Process II	3	--	--	3	3	2.5	40	60	--	--	100
05	ME 605TE	Professional Elective – II	3	--	--	3	3	2.5	40	60	--	--	100
06	ME 606P	Theory of Machines Lab	--	--	3	3	1	--	--	--	25	25	50
07	ME 607P	Heat Transfer Lab	--	--	3	3	1	--	--	--	25	25	50
08	ME 608P	Technical Seminar	--	--	3	3	1	--	--	--	25	25	50
09	ME 609P	Internship Training(4 weeks)	--	--	--	--	3	--	--	--	--	--	--
Total			15	2	9	24	21	--	200	300	75	25	650

CIA	Continuous Internal Assessment	Th	Theory	Professional Elective-II
L	Lecture	P	Practical	CIM and Automation
Tu	Tutorial	TW	Term Work	Composite Materials
				Tool Design



Sandip University

Neelam Vidya Vihar, Vill.: Sijoul. P.O. : Mailam, Dist.:Madhubani, Bihar -847235
 Website : <http://www.sandipuniversity.edu.in> Toll-Free No.- 1800-313-714

DEPARTMENT OF MECHANICAL ENGINEERING

School of Engineering

Course Structure for Undergraduate Programme of Bachelor of Mechanical Engineering(B.Tech.)

Semester – VII

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	Tu	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P/O	TW	
01	ME 701T	Operation Management	3	1	--	4	4	2.5	40	60	--	--	100
02	ME 702T	Automotive Engineering	3	--	--	3	3	2.5	40	60	--	--	100
03	ME 703T	Turbomachinery	3	1	--	4	4	2.5	40	60	--	--	100
04	ME 704T	Hydraulics and Pneumatics	3	--	--	3	3	2.5	40	60	--	--	100
05	ME 705TE	Professional Elective- III	3	1	--	4	4	2.5	40	60	--	--	100
06	ME 706P	CIM and Automation Lab	--	--	3	3	1	--	--	--	25	25	50
07	ME 707P	Automotive Engineering Lab	--	--	3	3	1	--	--	--	25	25	50
08	ME 708P	Project Work (Phase I)	--	--	3	3	1	--	--	--	25	25	50
Total			15	3	9	27	21		200	300	50	100	650

CIA	Continuous Internal Assessment	Th	Theory	Professional Elective-III
L	Lecture	P	Practical	Robotics
Tu	Tutorial	TW	Term Work	Vehicle Dynamics
				Mechanical Vibrations



Sandip University

Neelam Vidya Vihar, Vill.: Sijoul. P.O. : Mailam, Dist.:Madhubani, Bihar -847235
Website : <http://www.sandipuniversity.edu.in> Toll-Free No.- 1800-313-714

DEPARTMENT OF MECHANICAL ENGINEERING

School of Engineering

Course Structure for Undergraduate Programme of Bachelor of Mechanical Engineering(B.Tech.)

Semester – VIII

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	Tu	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P/O	TW	
01	ME801P	Seminar/Technical Report writing	--	--	3	3	2	--	--	--	--	200	200
02	ME802P	Project Work (Phase -II)	--	--	18	18	14	--	--	--	150	100	250
Total			0	0	21	21	16	--	--	--	150	300	450

CIA	Continuous Internal Assessment	Th	Theory
L	Lecture	P	Practical
Tu	Tutorial	TW	Term Work