



INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR
School of Mechanical Sciences
Course Curriculum for B.Tech (Hons.) in Mechanical Engineering

		2008 Batch				2009 Batch				2010 Batch Onwards			
SEMESTER - 1													
Sr.No	Subject Code	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr
1	MA A1001	Mathematics – I	3-1-0	4		Mathematics – I	3-1-0	4		Mathematics – I	3-1-0	4	
2	PH A1001	Physics	3-1-0	4		Physics	3-1-0	4		Physics	3-1-0	4	
3	ME OA1001	Mechanics	3-1-0	4		Mechanics	3-1-0	4		Mechanics	3-1-0	4	
4	EE A1001	Electrical Technology	3-1-0	4		Electrical Technology	3-1-0	4		Electrical Technology	3-1-0	4	
5	ME A1101	Introduction to Manufacturing Processes	1-0-3	3		Introduction to Manufacturing Processes	1-0-3	3		Introduction to Engineering Practice (ME 11102)/ Introduction to Manufacturing Processes	0-0-3	2	
6	PH A1101	Physics Lab	0-0-3	2		Physics Lab	0-0-3	2		Physics Lab	0-0-3	2	
7	EE A1101	Electrical Tech Lab	0-0-3	2		Electrical Tech Lab	0-0-3	2		Electrical Tech Lab	0-0-3	2	
8	EA A1101	EAA – 1	0-0-3	1		EAA – 1	0-0-3	1		EAA – 1	0-0-3	0	
				24	29					24	29	22	28
SEMESTER - 2													
1	MA S1001	Mathematics – 2	3-1-0	4		Mathematics – 2	3-1-0	4		Mathematics – 2	3-1-0	4	
2	CY A1001	Chemistry	3-1-0	4		Chemistry	3-1-0	4		Chemistry	3-1-0	4	
3	HS A1001	English for Communication	3-0-2	4		English for Communication	3-0-2	4		English for Communication	3-0-2	4	
4	EE A1002	Programming & Data Structure	3-1-0	4		Programming & Data Structure	3-1-0	4		Programming & Data Structure	3-1-0	4	
5	CY A1101	Chemistry Lab	0-0-3	2		Chemistry Lab	0-0-3	2		Chemistry Lab	0-0-3	2	
6	EE A1102	PDS Lab	0-0-3	2		PDS Lab	0-0-3	2		PDS Lab	0-0-3	2	
7	CE A1101	Engineering Drawing & Computer Graphics	1-0-3	3		Engineering Drawing & Computer Graphics	1-0-3	3		Engineering Drawing & Computer Graphics	1-0-3	3	
8	EA S1101	EAA – 2	0-0-3	1		EAA – 2	0-0-3	0		EAA – 2	0-0-3	0	
				24	30					23	30	23	30

		2008 Batch				2009 Batch				2010 Batch Onwards			
SEMESTER - 3													
Sr.No	Subject Code	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr
1	MA A2001	Mathematics – Transform Calculus	3-0-0	3		Mathematics – Transform Calculus	3-0-0	3		Mathematics – Transform Calculus	3-0-0	3	
2	HS A2001	Economics (HSS as Dept Core)	3-1-0	4		Economics (HSS as Dept Core)	3-1-0	4		Economics (HSS as Dept Core)	3-1-0	4	
3	ME A2002	Dynamics	3-1-0	4		Dynamics	3-1-0	4		Dynamics	3-1-0	4	
4	ME A2003	Fluid Mechanics	3-1-0	4		Fluid Mechanics	3-1-0	4		Fluid Mechanics	3-1-0	4	
5	CY A2001	*				Bio-Science	2-0-0	2		Bio-Science	2-0-0	2	
6	CY A2002	*				Environmental Science	2-0-0	2		Environmental Science	2-0-0	2	
7	ME A2101	Workshop Process – II	0-0-3	2		Workshop Process – II	0-0-3	2		Workshop Process – II	0-0-3	2	
8	EA A2101	EAA – 3	0-0-3	1		EAA – 3	0-0-3	0		EAA – 3	0-0-3	0	
9	CE A2001/ME A 2001	Breadth I ((Environmental Engineering/Thermodynamics)	3-0-0	3		*				*			
				21	24					21	25	21	25
SEMESTER - 4													
1	MA S2002	Mathematics – PDE	3-0-0	3		Mathematics – PDE	3-0-0	3		Mathematics – PDE	3-0-0	3	
2	EE S2005	Basic Electronics	3-1-0	4		Basic Electronics	3-1-0	4		Basic Electronics	3-1-0	4	
3	ME S2001	Thermodynamics	3-1-0	4		Thermodynamics	3-1-0	4		Thermodynamics	3-1-0	4	
4	ME S2002	Kinematics of Machines	3-0-0	3		Kinematics of Machines	3-0-0	3		Kinematics of Machines	3-0-0	3	
5	NA	*				Breadth – 1 (IT/Sc./Ent/IPL)	3-0-0	3		Breadth – 1 (IT/Sc./Ent/IPL)	3-0-0	3	
6	CY S2001	Chemistry of Materials	3-0-0	3		*				*			
7	EE S2103	Basic Electronics Lab	0-0-3	2		Basic Electronics Lab	0-0-3	2		Basic Electronics Lab	0-0-3	2	
8	ME S2101	Mechanism Sessional	0-0-3	2		Mechanism Sessional	0-0-3	2		Mechanism Sessional	0-0-3	2	
9	EA S2101	EAA – 4	0-0-3	0		EAA – 4	0-0-3	0		EAA – 4	0-0-3	0	
10	CY A2001	Bio Science	2-0-0	2		*				*			
				23	28					21	26	21	26

		2008 Batch				2009 Batch				2010 Batch Onwards			
SEMESTER - 5													
Sr.No	Subject Code	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr
1	ME A3001	Mechanics of Solids	3-1-0	4		Mechanics of Solids	3-1-0	4		Mechanics of Solids	3-1-0	4	
2	ME A3002	Materials Engineering	3-0-0	3		Materials Engineering	3-0-0	3		Materials Engineering	3-0-0	3	
3	ME A3003	Heat Transfer	3-1-0	4		Heat Transfer	3-1-0	4		Heat Transfer	3-1-0	4	
4	MA E3004	Casting, Forming & Welding	3-1-0	4		Casting, Forming & Welding	3-1-0	4		Casting, Forming & Welding	3-1-0	4	
5	NA	Breadth – 2 (HSS)	3-0-0	3		Breadth – 2 (HSS)	3-0-0	3		Breadth – 2 (HSS)	3-0-0	3	
6	ME A3101	Mechanics of Solids Lab	0-0-3	2		Mechanics of Solids Lab	0-0-3	2		Mechanics of Solids Lab	0-0-3	2	
7	ME A3102	Casting, Welding & Forming Lab	0-0-3	2		Casting, Welding & Forming Lab	0-0-3	2		Casting, Welding & Forming Lab	0-0-3	2	
				22	24			22	24			22	24
SEMESTER - 6													
1	ME S3001	Dynamics of Machines	3-1-0	4		Dynamics of Machines	3-1-0	4		Dynamics of Machines	3-1-0	4	
2	ME S3002	Applied Thermo- Fluids – I ?	3-1-0	4		Applied Thermo- Fluids – I	3-1-0	4		Applied Thermo- Fluids – I	3-1-0	4	
3	ME S3003	Design of Machine Elements	3-1-0	4		Design of Machine Elements	3-1-0	4		Design of Machine Elements	3-1-0	4	
4	ME S3004	Machine Tool & Machining	3-1-0	4		Machine Tool & Machining	3-1-0	4		Machine Tool & Machining	3-1-0	4	
5	ME S3101	Thermo-Fluids Lab – 1	0-0-3	2		Thermo-Fluids Lab – 1	0-0-3	2		Thermo-Fluids Lab – 1	0-0-3	2	
6	ME S3102	Machine Tool & Machining Lab (MTM + Metrology)	0-0-3	2		Machine Tool & Machining Lab (MTM + Metrology)	0-0-3	2		Machine Tool & Machining Lab (MTM + Metrology)	0-0-3	2	
7	ME S3103	Machine Design Practice	0-0-3	2		Machine Design Practice	0-0-3	2		Machine Design Practice	0-0-3	2	
8	CY A2002	Environmental Science	2-0-0	2		*				*			
				24	27			22	25			22	25

		2008 Batch				2009 Batch				2010 Batch Onwards			
SEMESTER - 7													
Sr.No	Subject Code	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr	Subject Name	L-T-P	Credits	Hr
1	ME A4001	Applied Thermo-Fluids – 2	3-2-0	5		Applied Thermo-Fluids – 2	3-2-0	5		Applied Thermo-Fluids – 2	3-2-0	5	
2	ME A4002	Systems & Controls	3-1-0	4		Systems & Controls	3-1-0	4		Systems & Controls	3-1-0	4	
3	NA	Elective – 1	3-0-0	3		Elective – 1	3-0-0	3		Elective – 1	3-0-0	3	
4	NA	Elective – 2 (Open)	3-0-0	3		Elective – 2 (Open)	3-0-0	3		Elective – 2 (Open)	3-0-0	3	
5	ME A4101	Thermo-Fluids Lab – 2	0-0-3	2		Thermo-Fluids Lab – 2	0-0-3	2		Thermo-Fluids Lab – 2	0-0-3	2	
6	ME A4201	Summer Training	0-0-2	2		Summer Training	0-0-2	2		Summer Training	0-0-2	2	
7	ME A4301	Project – Part 1	0-0-6	4		Project – Part 1	0-0-6	4		Project – Part 1	0-0-6	4	
				23	24			23	24			23	24
SEMESTER - 8													
1	NA	Elective – 3	3-0-0	3		Elective – 3	3-0-0	3		Elective – 3	3-0-0	3	
2	NA	Elective – 4	3-0-0	3		Elective – 4	3-0-0	3		Elective – 4	3-0-0	3	
3	NA	Elective – 5	3-0-0	3		Elective – 5	3-0-0	3		Elective – 5	3-0-0	3	
4	NA	Elective – 6 (Open)	3-0-0	3		Elective – 6 (Open)	3-0-0	3		Elective – 6 (Open)	3-0-0	3	
5	NA	Breadth – 3 (MNGT)	3-0-0	3		Breadth – 3 (MNGT)	3-0-0	3		Breadth – 3 (MNGT)	3-0-0	3	
6	ME S4201	Comprehensive Viva	0-0-0	2		Comprehensive Viva	0-0-0	2		Comprehensive Viva	0-0-0	2	
7	ME S43201	Project – Part 2	0-0-9	6		Project – Part 2	0-0-9	6		Project – Part 2	0-0-9	6	
				23	24			23	24			23	24
				184	210			179	207			177	206