



INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR
School of Electrical Sciences
Course Curriculum for B.Tech (Hons.) in Electrical 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 A1001	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 (MEA 1102)/ 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	EE A2001	Signals and Networks	3-1-0	4		Signals and Networks	3-1-0	4		Signals and Networks	3-1-0	4	
2	EE A2002	Introduction to Electronics	3-1-0	4		Introduction to Electronics	3-1-0	4		Introduction to Electronics	3-1-0	4	
3	MA A2001	Mathematics III (Module1*)	3-0-0	3		Mathematics III (Transform Calc)	3-0-0	3		Mathematics III (Transform Calc)	3-0-0	3	
4	PH A2001	Physics-II	3-1-0	4		Physics-II	3-1-0	4		Physics-II	3-1-0	4	
5	CE A2001/ ME A2001	Breadth I (Environmental Engineering/Thermodynamics)	3-0-0	3		*				*			
6	CY A2001	*				Bio Science	2-0-0	2		Bio Science	2-0-0	2	
7	CY A2002	*				Environmental Science	2-0-0	2		Environmental Science	2-0-0	2	
8	EE A2101	Signals and Networks Laboratory	0-0-3	2		Signals and Networks Laboratory	0-0-3	2		Signals and Networks Laboratory	0-0-3	2	
9	EE A2102	Introduction to Electronics Laboratory	0-0-3	2		Introduction to Electronics Laboratory	0-0-3	2		Introduction to Electronics Laboratory	0-0-3	2	
10	EA A2101	EAA-III	0-0-3	1		EAA-III	0-0-3	0		EAA-III	0-0-3	0	
				23	27			23	28			23	28
SEMESTER - 4													
1	EE S2001	Electromagnetic Engineering	3-1-0	4		Electromagnetic Engineering	3-1-0	4		Electromagnetic Engineering	3-1-0	4	
2	EE S2002	Measurement & Electronic Instruments	3-0-0	3		Measurement & Electronic Instruments	3-0-0	3		Measurement & Electronic Instruments	3-0-0	3	
3	EE S2003	Analog Electronic Circuits	3-1-0	4		Analog Electronic Circuits	3-1-0	4		Analog Electronic Circuits	3-1-0	4	
4	MA S2001	Probability and Stochastic Processes	3-0-0	3		Probability and Stochastic Processes	3-0-0	3		Probability and Stochastic Processes	3-0-0	3	
5	EE S2004	Semiconductor Devices	3-1-0	4		Semiconductor Devices	3-1-0	4		Semiconductor Devices	3-1-0	4	
6	CY A2001	Bio Science	2-0-0	2		*				*			
7	EE S2101	Analog Electronic Circuits Laboratory	0-0-3	2		Analog Electronic Circuits Laboratory	0-0-3	2		Analog Electronic Circuits Laboratory	0-0-3	2	
8	EE S2102	Measurement & Electronic Instruments Lab	0-0-3	2		Measurement & Electronic Instruments Lab	0-0-3	2		Measurement & Electronic Instruments Lab	0-0-3	2	
9	EA S2101	EAA-IV	0-0-3	0		EAA-IV	0-0-3	0		EAA-IV	0-0-3	0	
				24	29			22	27			22	27

		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	EE A3001	Instrumentation & Control System Engineering	3-1-0	4		Instrumentation & Control System Engineering	3-1-0	4		Instrumentation & Control System Engineering	3-1-0	4	
2	EE A3002	Electric Machines and Power Systems	3-1-0	4		Electric Machines and Power Systems	3-1-0	4		Electric Machines and Power Systems	3-1-0	4	
3	EE A3003	Digital Electronic Circuits	3-0-0	3		Digital Electronic Circuits	3-0-0	3		Digital Electronic Circuits	3-0-0	3	
4	EE A3004	Analog and Digital Communication	3-1-0	4		Analog and Digital Communication	3-1-0	4		Analog and Digital Communication	3-1-0	4	
5	EE A3101	Communication Systems Laboratory	0-0-3	2		Communication Systems Laboratory	0-0-3	2		Communication Systems Laboratory	0-0-3	2	
6	EE A3102	Digital Circuits Laboratory	0-0-3	2		Digital Circuits Laboratory	0-0-3	2		Digital Circuits Laboratory	0-0-3	2	
7	EE A3103	Electric Machines and Power Laboratory	0-0-3	2		Electric Machines and Power Laboratory	0-0-3	2		Electric Machines and Power Laboratory	0-0-3	2	
8	NA	Elective-I (HSS)	3-0-0	3		Elective-I (HSS)	3-0-0	3		Elective-I (HSS)	3-0-0	3	
				24	27					24	27		
SEMESTER - 6													
1	EE S3001	Power Electronics and Drives	3-1-0	4		Power Electronics and Drives	3-1-0	4		Power Electronics and Drives	3-1-0	4	
2	EE S3002	Computer Architecture & Operating Systems	4-0-0	4		Computer Architecture & Operating Systems	4-0-0	4		Computer Architecture & Operating Systems	4-0-0	4	
3	EE S3003	Digital Signal Processing	3-1-0	4		Digital Signal Processing	3-1-0	4		Digital Signal Processing	3-1-0	4	
4	EE S3004	VLSI Engineering	3-0-0	3		VLSI Engineering	3-0-0	3		VLSI Engineering	3-0-0	3	
5	EE S3101	VLSI Engineering Laboratory	0-0-3	2		VLSI Engineering Laboratory	0-0-3	2		VLSI Engineering Laboratory	0-0-3	2	
6	NA	Thermodynamics/Environmental Science	3-0-0	3		Elective II (Thermodynamics/Material Science/Fluid Mechanics/Adv. Differential Equations/Numerical Methods)	3-0-0	3		Elective II (Thermodynamics/Material Science/Fluid Mechanics/Adv. Differential Equations/Numerical Methods)	3-0-0	3	
7	EE S3102	Power Electronics and Drives Laboratory	0-0-3	2		Power Electronics and Drives Laboratory	0-0-3	2		Power Electronics and Drives Laboratory	0-0-3	2	
				22	24					22	24		

		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	EE A4001	Embedded Systems	3-1-0	4		Embedded Systems	3-1-0	4		Embedded Systems	3-1-0	4	
2	NA	Elective - III	3-0-0	3		Elective - III	3-0-0	3		Elective - III	3-0-0	3	
3	NA	Elective – IV	3-0-0	3		Elective – IV	3-0-0	3		Elective – IV	3-0-0	3	
4	EE A4101	DSP and Embedded System Laboratory	0-0-3	2		DSP and Embedded System Laboratory	0-0-3	2		DSP and Embedded System Laboratory	0-0-3	2	
5	NA	Breadth-V (Management/HSS)	3-0-0	3		Breadth-V (Management/HSS)	3-0-0	3		Breadth-V (Management/HSS)	3-0-0	3	
6	EE A4301	Project	0-0-6	4		Project	0-0-6	4		Project	0-0-6	4	
7	EE A4201	Industrial Training	0-0-0	2		Industrial Training	0-0-0	2		Industrial Training	0-0-0	2	
				21	22			21	22			21	22
SEMESTER - 8													
1	EE S4001	Wireless Communication System	3-0-0	3		Wireless Communication System	3-0-0	3		Wireless Communication System	3-0-0	3	
2	NA	Elective – V	3-0-0	3		Elective – V	3-0-0	3		Elective – V	3-0-0	3	
3	NA	Elective – VI	3-0-0	3		Elective – VI	3-0-0	3		Elective – VI	3-0-0	3	
4	EE S4101	Electronic System Design	0-0-3	2		Electronic System Design	0-0-3	2		Electronic System Design	0-0-3	2	
5	NA	Breadth-VI (Management/HSS)	3-0-0	3		Breadth-VI (Management/HSS)	3-0-0	3		Breadth-VI (Management/HSS)	3-0-0	3	
6	EE S4301	Project	0-0-9	6		Project	0-0-9	6		Project	0-0-9	6	
7	EE S4201	Comprehensive Viva	0-0-0	2		Comprehensive Viva	0-0-0	2		Comprehensive Viva	0-0-0	2	
				22	24			22	24			22	24
				184	212			181	211			179	210