

JNTUH eLSDM - B.Tech. Semester - I List of Subjects			
Year - Semester	S.No.	Subject	Units Available
I Year - CSE, ME, EEE, ECE, IT - R13 Syllabus			
I	1	Computer Programming	5
I	2	Engineering Chemistry	5
I	3	Engineering Drawing	5
I	4	Engineering Physics	5
I	5	Mathematical Methods	5
I	6	Mathematics - I	5
Electronics and Communication Engineering			
II - I	1	Electronic Devices and Circuits	5
	2	Electrical Circuits	4
	3	Mathematics - III	5
	4	Probability Theory & Stochastic Process	5
	5	Signals and Systems	5
	6	Switching Theory and Logic Design	8
III - I	7	Computer Organization	8
	8	Antennas and Wave Propagation	8
	9	Electronic Measurements and Instrumentation	8
	10	IC Applications	8
	11	Principles of Programming Languages	8
IV - I	12	Microwave Engineering	8
	13	VLSI Design	8
	14	Optical Communications - Elective	8
Electrical and Electronics Engineering			
II - I	1	Mathematics - III	5
	2	Fluid Mechanics & Hydraulic Machinery	5
	3	Electronic Devices and Circuits	5
	4	Electrical Circuits	4
	5	Electrical Machines - I	2
	6	Electro Magnetic Fields	5
III - I	7	Management Science	8
	8	Control Systems	8
	9	Electrical Machines - III	8
	10	Power Electronics	8
	11	Power Systems - II	8
IV - I	12	Power System Operation & Control	8
	13	Switch Gear & Protection	8
	14	Utilization of Electrical Energy	8
	15	High Voltage Engineering - Elective	8
	16	Digital Control Systems - Elective	2
Mechanical Engineering			
II - I	1	Thermodynamics	3
	2	Electrical and Electronics Engineering	2
	3	Mechanics of Solids	4
	4	Metallurgy and Material Science	5
	5	Environmental Studies	5
	6	Probability and Statistics	2
III - I	7	Design of Machine Members - I	8
	8	Dynamics of Machinery	8

	9	Applied Thermodynamics - II	8
	10	Machine Tools	8
IV - I	11	Instrumentation	8
	12	Instrumentation and Control Systems	8
	13	Operations Research	8
	14	Power Plant Engineering	8
	15	Unconventional Machining Processes - Elective	8
	16	Robotics - Elective	8
Computer Science and Engineering			
II - I	1	Data Structures	2
	2	Digital Logic Design	5
	3	Mathematical Foundations of Computer Science and Engineering	5
	4	Probability and Statistics	2
	5	Basic Electrical Engineering	2
	6	Electronic Devices and Circuits	5
III - I	7	Operating Systems	8
	8	Microprocessors and Interfacing	8
	9	Software Engineering	2
IV - I	10	Computer Graphics	8
	11	Data Ware Housing and Data Mining	8
	12	Linux Programming	8
	13	Software Testing Methodologies	8
Information Technology			
II - I	1	Data Structures	2
	2	Digital Logic Design and Computer Organization	5
	3	Mathematical Foundations of Computer Science and Engineering	5
	4	Probability and Statistics	2
	5	Basic Electrical Engineering	2
	6	Electronic Devices and Circuits	5
III - I	7	Automata Theory and Compiler Design	8
	8	Operating Systems	8
	9	Software Engineering	2
	10	Computer Networks	8
IV - I	11	Mobile Application Development	8
	12	Object Oriented Analysis and Design	7
	13	VLSI Design	8
	14	Software Testing Methodologies	8