



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Structure of Syllabus for the Program: M.Sc., Subject: ELECTRONICS

Structure of Syllabus Developed by			
Name of BoS Convener/ BoS Member	Designation	Department	College/ University
Prof. Anupam Srivastava	Professor, Head & Convener	Department of Physics & Electronics	Dr. Rammanohar Lohia Avadh University, Ayodhya

Course Code		Course Title	Credits	T/P	Evaluation	
					CIE	ETE
A	B	C	D	E	F	G
SEMESTER I (YEAR I)						
B140701T	CORE	Mathematical Techniques in Electronics	4	T	25	75
B140702T	CORE	Semiconductor Devices and Circuits	4	T	25	75
B140703T	CORE	Digital System Design	4	T	25	75
B140704T	CORE	C Programming	4	T	25	75
B140705T	FIRST ELECTIVE (Subject Elective)	Electronic Measurement & Instrumentation	4	T	25	75
B140706T	(Select any one)	Physics of Electronic Materials	4	T	25	75
B140707P	SECOND ELECTIVE (Subject Elective)	Electronics Laboratory Course -I (A)	5	P	50	50
B140708P	(Select any one)	Electronics Laboratory Course -I (B)	5	P	50	50
SEMESTER II (YEAR I)						
B140801T	CORE	Network Analysis and Synthesis	5	T	25	75
B140802T	CORE	Microprocessor and Microcontrollers	5	T	25	75
B140803T	CORE	Electromagnetic Theory and Antenna	5	T	25	75
B140804T	THIRD ELECTIVE (Generic Elective)	Programming with MATLAB	5	T	25	75
B140805T	(Select any one)	Introduction to IoT	5	T	25	75
B140806P	FOURTH ELECTIVE (Subject Elective)	Electronics Laboratory Course -II (A)	5	P	50	50
B140807P	(Select any one)	Electronics Laboratory Course -II (B)	5	P	50	50
SEMESTER III (YEAR II)						
B140901T	CORE	Communication Theory and Systems	4	T	25	75
B140902T	CORE	Control System	4	T	25	75

B140903T	CORE	Power Electronics	4	T	25	75
B140904T	CORE	Analog Integrated Circuits	4	T	25	75
B140905T	FIFTH ELECTIVE (Subject Elective)	Artificial Intelligence and Machine Learning	4	T	25	75
B140906T	(Select any one)	VHDL Programming	4	T	25	75
B140907P	SIXTH ELECTIVE (Subject Elective)	Electronics Laboratory Course -III (A)	5	P	50	50
B140908P	(Select any one)	Electronics Laboratory Course -III (A)	5	P	50	50
SEMESTER IV (YEAR II)						
B141001T	CORE	VLSI Design and Technology	5	T	25	75
B141002T	CORE	Digital Signal Processing	5	T	25	75
B141003T	SEVENTH ELECTIVE (Subject Elective)	Optoelectronics and Optical Communication	5	T	25	75
B141004T	(Select any one)	Radar Satellite Communication and Remote Sensing	5	T	25	75
B141005P	RESEARCH PROJECT/ DISSERTATION	Major Research Project/ Dissertation	10	P	50	50