



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

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

Structure of Syllabus Developed by			
Name of BoS Convener/ BoS Member	Designation	Department	College/ University
Prof. C.K. Mishra	Dean	Faculty of Science	Dr. R.M.L. Avadh University, Ayodhya
Prof. Anupam Srivastava	Head & Convenor	Physics & Electronics	Dr. R.M.L. Avadh University, Ayodhya
Prof. R.K.Tiwari	Professor	Physics & Electronics	Dr. R.M.L. Avadh University, Ayodhya
Prof. S.N.Shukla	Professor	Physics & Electronics	Dr. R.M.L. Avadh University, Ayodhya
Prof. K.K.Verma	Professor	Physics & Electronics	Dr. R.M.L. Avadh University, Ayodhya
Prof. G.R.Mishra	Professor	Physics & Electronics	Dr. R.M.L. Avadh University, Ayodhya
Dr. Geetika Srivastava	Associate Professor	Physics & Electronics	Dr. R.M.L. Avadh University, Ayodhya
Dr. Anil Kumar	Assistant Professor	Physics & Electronics	Dr. R.M.L. Avadh University, Ayodhya
Prof. D.K.Dwivedi	Professor	Physics & Material Science	MMM University of Technology, Gorakhpur
Prof. R.K.Singh	Professor	Physics	BHU, Varansi
Prof. Umesh Yadav	Professor	Physics	DDU Gorakhpur University Gorakhpur
Prof. Manish Mishra	Professor	Department of Electronics	DDU Gorakhpur University Gorakhpur
Dr.U.N.Tripathi	Professor	Department of Computer Science	DDU Gorakhpur University Gorakhpur

Course Code		Course Title	Credits	T/P	Evaluation	
					CIE	ETE
A	B	C	D	E	F	G
SEMESTER I (YEAR I)						
B220701T	CORE	Mathematical Physics	4	T	25	75
B220702T	CORE	Classical Mechanics	4	T	25	75
B220703T	CORE	Semiconductor Devices and Circuits	4	T	25	75
B220704T	CORE	Digital System Design	4	T	25	75
B220705T	FIRST ELECTIVE (Subject Elective) (Select any one)	Electronic Measurement and Instrumentation	4	T	25	75
B220706T		Programming in C	4	T	25	75

B220707P	SECOND ELECTIVE (Subject Elective)	Physics Laboratory Course -I (A)	5	P	50	50
B220708P	(Select any one)	Physics Laboratory Course -I (B)	5	P	50	50
SEMESTER II (YEAR I)						
B220801T	CORE	Electrodynamics	5	T	25	75
B220802T	CORE	Quantum Mechanics	5	T	25	75
B220803T	CORE	Microprocessor and Microcontrollers	5	T	25	75
B220804T	THIRD ELECTIVE (Generic Elective)	Introduction to MATLAB Programming	5	T	25	75
B220805T	(Select any one)	Computer Oriented Numerical Methods	5	T	25	75
B220806P	FOURTH ELECTIVE	Physics Laboratory Course -II (A)	5	P	50	50
B220807P	(Select any one)	Physics Laboratory Course -II (B)	5	P	50	50
SEMESTER III (YEAR II)						
B220901T	CORE	Thermodynamics and Statistical Mechanics	4	T	25	75
B220902T	CORE	Advanced Quantum Mechanics	4	T	25	75
B220903T	CORE	Communication Theory and Systems	4	T	25	75
B220904T	CORE	Condensed Matter Physics	4	T	25	75
B220905T	FIFTH ELECTIVE	Analog Integrated Circuits	4	T	25	75
B220906T	(Subject Elective) (Select any one)	Materials: Introduction, Synthesis and Processing	4	T	25	75
B220907P	SIXTH ELECTIVE	Physics Laboratory Course -III (A)	5	P	50	50
B220908P	(Subject Elective) (Select any one)	Physics Laboratory Course -III (A)	5	P	50	50
SEMESTER IV (YEAR II)						
B221001T	CORE	Atomic and Molecular Physics	5	T	25	75
B221002T	CORE	Nuclear and Particle Physics	5	T	25	75
B221003T	SEVENTH ELECTIVE	VLSI Design and Technology	5	T	25	75
B221004T	(Subject Elective) (Select any one)	Optoelectronics and Optical Communication	5	T	25	75
B221005P	RESEARCH PROJECT/ DISSERTATION	Major Research Project/ Dissertation	10	P	50	50