



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Structure of Syllabus for the Program: M.Sc. Subject: PHYSICS

Structure of Syllabus Developed by			
Name of BOS Convener/ BOS Member	Designation	Department	College/ University
Prof. Sameer Sinha	Convener	Physics	Ganpat Sahay P G College, Sultanpur
Prof. Rajeev Kumar Srivastava	Member	Physics	Ganpat Sahay P G College, Sultanpur
Prof. Lalit Kumar Dwivedi	Member	Physics	KNIPSS, Sultanpur
Prof. Om Prakash Yadav	Member	Physics	K. S. Saket P.G. College, Ayodhya
Prof. Ashok Kumar Singh	External Expert	Physics	University of Lucknow, Lucknow
Prof. Bhartendu Kumar Singh	External Expert	Physics	BHU, Varanasi
Prof. S. P. Singh	External Expert	Physics	University of Lucknow, Lucknow
Prof. Balak Das	External Expert	Physics	University of Lucknow, Lucknow
Prof. N K Pandey	External Expert	Physics	University of Lucknow, Lucknow

Course Code		Course Title	Credits	T/P	Evaluation	
A	B				CIE	ETE
A	B	C	D	E	F	G
SEMESTER I (YEAR I)						
B010701T	CORE	Mathematical Methods for Physics	5	T	25	75
B010702T	CORE	Classical Mechanics	5	T	25	75
B010703T	CORE	Quantum Mechanics	5	T	25	75
B010704T	FIRST ELECTIVE (Subject Elective) (Select any one)	Numerical Methods and C Programming	5	T	25	75
B010705T		Lasers, Optical Fibers and Sensors	5	T	25	75
B010706P	SECOND ELECTIVE (Subject Elective) (Select any one)	Physics Lab-1	5	P	50	50
B010707P		Electronics Lab-1	5	P	50	50
SEMESTER II (YEAR I)						
B010801T	CORE	Advanced Quantum Mechanics	5	T	25	75
B010802T	CORE	Electrodynamics	5	T	25	75
B010803T	CORE	Electronics	5	T	25	75
B010804T	THIRD ELECTIVE	Physics in Daily Life	5	T	25	75

B010805T	(Generic Elective) (Select any one)	Home Appliances	5	T	25	75
B010806P	FOURTH ELECTIVE	Physics Lab-2	5	P	50	50
B010807P	(Subject Elective) (Select any one)	Electronics Lab-2	5	P	50	50
SEMESTER III (YEAR II)						
B010901T	CORE	Nuclear Physics	5	T	25	75
B010902T	CORE	Statistical Physics	5	T	25	75
B010903T	CORE	Digital Electronics & Microprocessor	5	T	25	75
B010904T	FIFTH ELECTIVE	Spectroscopy	5	T	25	75
B010905T	(Subject Elective) (Select any one)	Renewable Energy Resources	5	T	25	75
B010906P	SIXTH ELECTIVE	Physics Lab-3	5	P	50	50
B010907P	(Subject Elective) (Select any one)	Electronics Lab-3	5	P	50	50
SEMESTER IV (YEAR II)						
B011001T	CORE	Condensed Matter Physics	5	T	25	75
B011002T	CORE	Communication and Microwave Electronics	5	T	25	75
B011003P	SEVENTH ELECTIVE	Physics Lab-4	5	P	50	50
B011004P	(Select any one)	Electronics Lab-4	5	P	50	50
B011005P	RESEARCH PROJECT/ DISSERTATION	Major Research Project/ Dissertation	10	P	50	50