

K.L.E.Society's
RAJA LAKHAMAGOUDA SCIENCE INSTITUTE (Autonomous), BELAGAVI
DEPARTMENT OF PHYSICS
CHOICE BASED CREDIT SYSTEM (CBCS)
M.Sc – PHYSICS COURSE STRUCTURE
M.Sc I and II SEMESTER

Sem No.	Course No	Title of the course	Credits	Teaching Hrs/week	Maximum Marks		
					Exam proper	I.A.	Total
Compulsory Courses							
I	1.1	Mathematical Methods of Physics & Computer Programming– I	4	4	70	30	100
	1.2	Classical Mechanics	4	4	70	30	100
	1.3	Electronics (General)	4	4	70	30	100
	1.4	Condensed Matter Physics(General)	4	4	70	30	100
	1.5	Practical – I	4	4	70	30	100
	1.6	Practical – II	4	4	70	30	100
	Compulsory Courses:						
II	2.1	Quantum Mechanics– I	4	4	70	30	100
	2.2	Atomic, Molecular & Optical Physics(General)	4	4	70	30	100
	2.3	Nuclear & Particle Physics (General)	4	4	70	30	100
	2.4	Open Elective : a) Modern Physics b) Computer Science c) Experimental Techniques in Physics d) Probability Theory	4	4	70	30	100
	2.5	Practical – III	4	4	70	30	100
	2.6	Practical – IV	4	4	70	30	100

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M.Sc III and IV SEMESTER

Sem No.	Course No	Title of the course	Credits	Teaching Hrs/week	Maximum Marks		
					Exam proper	I.A.	Total
III	Compulsory Courses						
	3.1	Statistical Mechanics	4	4	70	30	100
	3.2	Mathematical methods of Physics -II	4	4	70	30	100
	3.3	Condensed Matter Physics– I (Special Subject)	4	4	70	30	100
	3.4	Open Elective : a) Physics of Nanomaterials b) Research Methodology c) MATLAB d)Statistical Inference	4	4	70	30	100
	3.5	Practical – I	4	4	70	30	100
	3.6	Practical – II	4	4	70	30	100
IV	Compulsory Courses:						
	4.1	Classical Electrodynamics	4	4	70	30	100
	4.2	Quantum Mechanics - II	4	4	70	30	100
	4.3	Condensed Matter Physics– II (Special Subject)	4	4	70	30	100
	4.4	Condensed Matter Physics– III (Special Subject)	4	4	70	30	100
	4.5	Practical – III	4	4	70	30	100
	4.6	Project (Condensed Matter Physics)	4	4	70	30	100