



RAICHUR UNIVERSITY

Yeragera, Raichur, Karnataka-584133

Distribution of Courses/Papers in Postgraduate Programme I Semester as per Choice Based Credit System (CBCS) Proposed for PG Program in Physics

M.Sc. I – SEMESTER

Paper code	Paper & Title	Credit	Teaching Hours/Week			Duration of exam (SEE) (Hrs)	Marks		Total
			L	T	P		Internal	SEE	
23PHHCT11	Mathematical Methods of Physics	4	4	-	-	3	30	70	100
23PHHCT12	Classical Mechanics	4	4	-	-	3	30	70	100
23PHHCT13	Atomic, Molecular & Optical Physics	4	4	-	-	3	30	70	100
23PHHCT14	Electronics	4	4	-	-	3	30	70	100
23PHHCP11	Atomic, Molecular & Optical Physics Lab	2	-	-	4	3	20	30	50
23PHHCP12	Electronics Lab	2	-	-	4	3	20	30	50
23PHSEC11	Design of Electrical & Electronics Circuits	2	1	-	2	-	50	-	50
		22	-	-	-	-	210	340	550



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Distribution of Courses/Papers in Postgraduate Programme II Semester as per Choice Based Credit System (CBCS) Proposed for PG Program in Physics

M.Sc. II – SEMESTER

Paper code	Paper & Title	Credit	Teaching Hours/Week			Duration of exams (SEE) (Hrs)	Marks		Total
			L	T	P		Internal	SEE	
23PHHCT21	Electromagnetics	4	4	-	-	3	30	70	100
23PHHCT22	Elementary Quantum Mechanics	4	4	-	-	3	30	70	100
23PHHCT23	Elementary Condensed Matter Physics	4	4	-	-	3	30	70	100
23PHHCT24	Elementary Nuclear Physics	4	4	-	-	3	30	70	100
23PHOET1*	Physics in Everyday Life [#]	2	2	-	-	2	10	40	50
23PHOET2*	Nanomaterials [§]								
23PHHCP21	Electromagnetics Lab	2	-	-	4	3	20	30	50
23PHHCP22	Elementary Condensed Matter Physics Lab	2	-	-	4	3	20	30	50
23PHHCP23	Elementary Nuclear Physics Lab	2	-	-	4	3	20	30	50
		24	-	-	-	-	190	410	600

* For other department students only. Physics students should choose Open Elective Course from other departments.

- To be offered only to Non-Science students. § - To be offered only to Science students.



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Distribution of Courses/Papers in Postgraduate Programme III Semester as per Choice Based Credit System (CBCS) Proposed for PG Program in Physics

M.Sc. III - SEMESTER

Paper code	Paper & Title	Credit	Teaching Hours/Week			Duration of exams (SEE) (Hrs)	Marks		Total
			L	T	P		Internal	SEE	
23PHHCT31	Thermal and Statistical Physics	4	4	-	-	3	30	70	100
23PHHCT32	Analytical and Experimental Techniques	4	4	-	-	3	30	70	100
23PHSCT31A	Advanced Condensed Matter Physics	4	4	-	-	3	30	70	100
23PHSCT31B	Advanced Nuclear Physics								
23PHSCT31C	Materials Science								
23PHSCT32A	Radiation Physics								
23PHSCT32B	Optical Spectroscopy	4	4	-	-	3	30	70	100
23PHSCT32C	Renewable Energy Physics								
23PHSEC31	Research Methodology	2	1	-	2	-	50	-	50
23PHOET31*	Space Research Programs in India and Abroad [#]	2	2	-	-	2	10	40	50
23PHOET32*	Astrophysics [#]								
23PHHCP31	Thermal and Statistical Physics Lab	2	-	-	4	3	20	30	50
23PHHCP32	Analytical and Experimental Techniques Lab	2	-	-	4	3	20	30	50
		24	-	-	-	-	220	380	600

* For other department students only. Physics students should choose Open Elective Course from other departments.
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Distribution of Courses/Papers in Postgraduate Programme IV Semester as per Choice Based Credit System (CBCS) Proposed for
 PG Program in Physics

M.Sc. IV - SEMESTER

Paper code	Paper & Title	Credit	Teaching Hours/Week			Duration of exams (SEE) (Hrs)	Marks		Total
			L	T	P		Internal	SEE	
23PHHCT41	Advanced Quantum Mechanics	4	4	-	-	3	30	70	100
23PHHCT42	Computational Physics	4	4	-	-	3	30	70	100
23PHSCT41A	Semiconductor Physics	4	4	-	-	3	30	70	100
23PHSCT41B	Particle Physics	4	4	-	-	3	30	70	100
23PHSCT41C	Nanoscience	4	4	-	-	3	30	70	100
23PHSCT42A	Lasers and Optical fibers	4	4	-	-	3	30	70	100
23PHSCT42B	Electronics and Applications	4	4	-	-	3	30	70	100
23PHSCT42C	Astrophysics	4	4	-	-	3	30	70	100
23PHHCP42	Computational Physics Lab	2	-	-	4	3	20	30	50
23PHRP41	Research Project	4	-	-	8	3	30	70	100
		22	-	-	-	-	170	380	550

(I-IV semester)-

Total Marks: 2300

Total credits: 92