

GULBARGA UNIVERSITY, GULBARGA
M.Sc Physics (CBCS)

(Effective from 2011-2012)
Teaching and Evaluation Scheme

Semester	Course Code	Title of the Paper	Credits	Teaching hours/week	Semester End Exam.		Internal Assessment		Total Max. marks
					Duration	Max. marks	Duration	Max. marks	
I	HCT1.1	Classical mechanics	4	4	3 hrs	80	1 hr	20	100
	HCT1.2	Electrodynamics	4	4	3 hrs	80	1 hr	20	100
	HCT1.3	Introductory Quantum Mechanics	4	4	3 hrs	80	1 hr	20	100
	SCT1.1	Mathematical Physics	4	4	3 hrs	80	1 hr	20	100
	SCT1.2	Applied Physics	4	4	3 hrs	80	1 hr	20	100
	HCPI.1	Practical 1.1	2	4	4 hrs	40	2 hrs	10	50
	HCP1.2	Practical 1.2	2	4	4 hrs	40	2 hrs	10	50
	HCP1.3	Practical 1.3	2	4	4 hrs	40	2 hrs	10	50
	SCPI.1	Practical 1.4	2	4	4 hrs	40	2 hrs	10	50
Total			24			480		120	600

In the beginning of the Semester I, the Department will notify the actual Soft core course that it wants to offer depending on the availability of staff and facility. Accordingly, the students will be allotted Soft core course.

Semester	Course Code	Title of the Paper	Credits	Teaching hours/week	Semester End Exam.		Internal Assessment		Total Max. marks
					Duration	Max. marks	Duration	Max. marks	
II	HCT2.1	Basic Nuclear Physics	4	4	3 hrs	80	1 hr	20	100
	HCT2.2	Basic Solid State Physics	4	4	3 hrs	80	1 hr	20	100
	SCT2.1	Atomic & Molecular Physics	4	4	3 hrs	80	1 hr	20	100
	SCT2.2	Plasma Physics	4	4	3 hrs	80	1 hr	20	100
	OET2.1	Elementary concepts in Physics	4	4	3 hrs	80	1 hr	20	100
	OET2.2	Modern Physics	4	4	3 hrs	80	1 hr	20	100
	HCP2.1	Practical 2.1	2	4	4 hrs	40	2 hrs	10	50
	HCP2.2	Practical 2.2	2	4	4 hrs	40	2 hrs	10	50
	SCP2.1	Practical 2.3	2	4	4 hrs	40	2 hrs	10	50
	OEP2.1	Practical 2.4	2	4	4 hrs	40	2 hrs	10	50
Total			24			480		120	600

In the beginning of the Semester II, the Department, will notify the actual Soft core and Open elective courses that it wants to offer depending on the availability of staff and facility. Accordingly, the students will be allotted Soft Core and Open elective courses.

Semester	Course Code	Title of the Paper	Credits	Teaching hours/week	Semester End Exam		Internal Assessment		Total Max. marks
					Duration	Max. marks	Duration	Max. marks	
III	HCT3.1	Electronics & Instrumentation	4	4	3 hrs	80		20	100
	HCT3.2	Mathematical Physics II	4	4	3 hrs	80		20	100
	SCT3.1	Solid State Physics I/ Materials Physics I/ Nano Physics I	4	4	3 hrs	80		20	100
	SCT3.2	Nuclear Physics I/ Energy Physics I/ Biophysics I	4	4	3 hrs	80		20	100
	OET3.1	Mechanics	4	4	3 hrs	80		20	100
	OET3.2	Radiation Physics	4	4	3 hrs	80		20	100
	HCP3.1	Practical 3.1	2	4	4 hrs	40		10	50
	HCP3.2	Practical 3.2	2	4	4 hrs	40		10	50
	SCP3.1	Practical 3.3	2	4	4 hrs	40		10	50
	OEP3.1	Practical 3.4	2	4	4 hrs	40		10	50
Total			24			480		120	600

In the beginning of the Semester III, the Department will notify the actual Soft core courses that it wants to offer depending on the availability of staff and facility. Accordingly, the students will be allotted Soft Core.

Semester	Course Code	Title of the Paper	Credits	Teaching hours/week	Semester End Exam.		Internal Assessment		Total Max. marks
					Duration	Max. marks	Duration	Max. marks	
IV	HCT4.1	Statistical Mechanics	4	4	3 hrs	80	1 hr	20	100
	HCT4.2	Quantum Mechanics II	4	4	3 hrs	80	1 hr	20	100
	SCT4.1	Solid State Physics II/ Materials Physics II/ Semiconductor Physics and devices	4	4	3 hrs	80	1 hr	20	100
	SCT4.2	Nuclear Physics II/ Energy Physics II/ Biophysics II	4	4	3 hrs	80	1 hr	20	100
	HCP4.1	Practical 4.1	2	4	4 hrs	40	2 hrs	10	50
	HCP4.2	Practical 4.2	2	4	4 hrs	40	2 hrs	10	50
	SCP4.1	Practical 4.3	2	4	4 hrs	40	2 hrs	10	50
	HCMP4.3	Project	6	6	--	120*	2 hrs	30	150
Total			24			480		120	600

*(72 marks for project report + 48 marks for Viva-Voce)

In the beginning of the Semester III, the Department will notify the actual Soft core courses that it wants to offer depending on the availability of staff and facility. Accordingly, the students will be allotted Soft Core.