



Effective from June 2022-2023

VANITA VISHRAM WOMEN'S UNIVERSITY, SURAT
SCHOOL OF SCIENCE AND TECHNOLOGY
Department of Physics
M.Sc (Physics)

Structure of the Programme – Credit Structure

Sem-1	Sem-2	Sem-3	Sem-4
Core Course-I (4+1)	Core Course-VII (4+1)	Core Course-XII (4+1)	Core Course -XVII (4+1)
Core Course-II (4+1)	Core Course-VIII (4+1)	Core Course-XIII (4+1)	Core Course -XVIII (4+1)
Core Course-III (4+1)	Core Course-IX (4+1)	Core Course-XIV (4+1)	Departmental Elective-V (3+1) Or Departmental Elective-VI (3+1)
Core Course-IV (4+1)	General Elective-I (3+1)	Departmental Elective-I (3+1) Or Departmental Elective-II (3+1)	Core Course -XIX Practical (4)
Core Course -V Practical (4)	Core Course -X Practical (4)	Departmental Elective-III (3+1) Or Departmental Elective-IV (3+1)	Core Course -XX Dissertation (12)
Core Course -VI Practical (4)	Core Course -XI Practical (4)	Core Course -XV Practical (4)	
		Core Course -XVI Project (4)	
28	27	31	30



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Semester-III

Course Structure – Paper Titles of 3rd Semester

Sem.	Core Course	Departmental Elective
3	Quantum Mechanics-II	Material Science
	Condensed Matter Physics	OR Raman Spectroscopy
	Atomic and Molecular Physics	Solar Photovoltaic
	Material Science Lab.	OR Laser and Laser Applications



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Semester III

Teaching and Evaluation Scheme

Course Code	Course Type	Course Name	Teaching Hours per week		Credits	End Term Exam Duration	Examination		Total Marks
			T	P			End Term Marks	Continuous Evaluation Marks	
PH21120	CORE COURSE – XII	Quantum Mechanics-II	4	0	5	2:30 Hrs.	60	40	100
PH21130	CORE COURSE – XIII	Condensed Matter Physics	4	0	5	2:30 Hrs.	60	40	100
PH21140	CORE COURSE – XIV	Atomic and Molecular Physics	4	0	5	2:30 Hrs.	60	40	100
PH24010 OR PH24020	Departmental Elective-I OR Departmental Elective-II	Material Science OR Raman Spectroscopy	3	0	4	2:30 Hrs.	60	40	100
PH24030 OR PH24040	Departmental Elective-III OR Departmental Elective-IV	Solar Photovoltaic OR Laser and Laser Application	3	0	4	2:30 Hrs.	60	40	100
PH21150	Core Course -XV Practical	Material Science Lab.	0	8	4	3:30 Hrs.	60	40	100
PH21160	Core Course -XVI	Project	0	8	4	3:30 Hrs.	60	40	100
		TOTAL	18	16	31	-	280	420	700