

Program name : M.Sc. Physics (Two year Program)

SNo	Sem	Course code	Course title	Credits	Credit Distribution				Type of Course													
					lecture	Tutorial	Practical	Self Study	Core	Elective	Multi Disciplinary	SEC	VAC	AEC	Project	Minor	Internship	Prerequisite	Mandatory	Audit	CIE (100)	SFE (100)
1	I		Mathematical Physics-I	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
2	I		Classical Mechanics	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
3	I		Quantum Mechanics-I	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
4	I		Solid State Electronics	4	3	0	1	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
5	I		Nuclear Physics	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
6	II		Mathematical Physics-II	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
7	II		Quantum Mechanics-II	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
8	II		Applied Numerical Methods	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
9	II		Solid State Physics	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
10	II		Elective 1	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	100	100	
11	II		Professional Communication	2	1	0	1	0	0	0	0	2	0	0	0	0	0	0	-	100	100	
12	II		Research, Innovation & IPR	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	-	100	100	
13	III		Electrodynamics	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
14	III		Statistical Mechanics	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	-	100	100	
15	III		Atomic and Molecular Physics	5	4	0	1	0	5	0	0	0	0	0	0	0	0	0	-	100	100	
16	III		Fiber Optics and Optoelectronics	3	3	0	0	0	3	0	0	0	0	0	0	0	0	0	-	100	100	
17	III		Elective 2	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
18	III		Research Methodology	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	-	100	100	
19	IV		Project	14	0	0	0	0	0	0	0	0	0	0	0	14	0	0	-	100	100	
			Total	80					52	8	4	2	0	0	0	14	0	0				

Electives for M.Sc. Physics (Two year Program)

SNo	Sem	Course code	Course title	Credits	Credit Distribution			Type of Course										Prerequisite	Mandatory	Audit	CIE (100)	SEE (100)	Remark
					lecture	Tutorial	Practical	Self Study	Core	Elective	Multi Disciplinary	SEC	VAC	AEC	Project	Minor	Internship						
1	II		Digital Electronics	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0 -	100	100			
2	II		Materials Science	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0 -	100	100			
3	II		Advanced Nuclear Physics	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0 -	100	100			
4	III		Microwaves and Antenna Propagation	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0 -	100	100			
5	III		Nanomaterials and Applications	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0	100	100			
6	III		Advanced Solid State Physics	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0	100	100			
7	III		Astrophysics and Cosmology	4	4	0	0	0	0	4	0	0	0	0	0	0	0	0	100	100			