

Scheme of B. Sc. Mathematics & Physics

Course	Code	Title	Hours/ Week	Credit
SEMESTER I				
Common	A01	Common Course I- English	4	3
Common	A02	Common Course II- English	5	3
Common	A07	Common Course: Additional Language I	4	4
Core	PHY 1B21	Mechanics I	2	2
Core		Practical I	4	
Core	MTS 1B21	Basic Calculus	6	4
	E01	Environment Studies		4**
Total Credits				16
SEMESTER II				
Common	A03	Common Course I- English	5	4
Common	A04	Common Course II- English	4	4
Common	A08	Common Course: Additional Language I	4	4
Core	PHY 2B22	Mechanics II	2	2
Core	PHY 2B23	Practical I	4	2
Core	MTS 2B22	Advanced Calculus	6	4
	E02	Disaster Management		4**
Total Credits				20
SEMESTER III				
General	A11	General Course	5	4
General	A12	General Course	5	4
Core	PHY 3B24	Electrodynamics	3	3
Core	PHY 3B25	Thermodynamics	3	3
Core		Practical II	2	
Core	MTS 3B23	Abstract Algebra	4	3
Core	MTS 3B24	Multivariable Calculus	3	3
	E03	Human Rights or Intellectual Property Rights or Consumer protection		4**
Total Credits				20

Course	Code	Title	Hours/ Week	Credit
SEMESTER IV				
General	A13	General Course	5	4
General	A14	General Course	5	4
Core	PHY 4B26	Statistical Physics, Solid State Physics, Spectroscopy and Photonics	3	3
Core	PHY 4B27	Electronics (Analog and Digital)	3	3
Core		Practical III	2	
Core	MTS 4B25	Differential Equations	4	3
Core	MTS 4B26	Number Theory	3	3
	E04	Gender studies or Gerontology		4**
Total Credits				20
SEMESTER V				
Core	PHY 5B28	Relativistic Mechanics and Astrophysics	3	3
Core	PHY 5B29	Optics	3	3
Core	PHY 5B30	Quantum Mechanics	3	3
Core		Practical II	2	
Core		Practical II	2	
Core	MTS 5B27	Complex Analysis	5	5
Core	MTS 5B28	Real Analysis - I	4	4
		Open Course (offered by Other Departments)	3	3
Total Credits				21
SEMESTER VI				
Core	PHY 6B31	Nuclear and Particle Physics	4	3
Core	PHY 6B32	Elective (Physics Core)	3	3
Core	PHY 6B33	Practical II	2	2
Core	PHY 6B34	Practical III	2	2
Core	PHY 6B35	Project + Tour Report	2	3
Core	MTS 6B29	Linear Algebra	5	4
Core	MTS 6B30	Real Analysis- II	4	3
Core	MTS 6B31	Elective (Mathematics Core)	3	3
Total Credits				23