2 yr. MSc - Physics

SEMESTER 1					SEMESTER 2				
18PHY501	Classical Mechanics	310	4		18PHY511	Quantum Mechanics II	310	4	
18PHY502	Quantum Mechanics I	310	4		18PHY512	Mathematical Physics II	310	4	
18PHY503	Mathematical Physics I	310	4		18PHY513	Statistical Mechanics	310	4	
18PHY504	Computational Physics	310	4		18PHY514	Advanced Electrodynamics	310	4	
18PHY581	Advanced Physics Lab	006	2		18PHY515	Experimental Techniques	310	4	
18CUL501	Cultural Education	200	P/F		18PHY583	Advanced Electronics Lab	006	2	
18PHY582	Simulation Lab	003	1		18AVP501	Amrita Value Programme	100	1	
18PHY591	Mini Project	003	1			TOTAL		23	
	TOTAL								
SEMESTER 3					SEMESTER 4				
18PHY601	Atomic, Molecular and Optical Physics	310	4		18PHY696	Dissertation		18	
18PHY602	Condensed Matter Physics	310	4		18PHY697	Viva voce		2	
18PHY603	Nuclear and Particle Physics	310	4		TOTAL			20	
18PHY604	Optics	310	4						
	Elective	300	3						
18PHY681	Spectroscopy Lab	006	2			TOTAL 2 Yr MSc		87	
18PHY690	Free/Open Elective / Live-in-Lab	300	3						
TOTAL			24						

Code No	ELECTIVES	LTP	Cr	Code No	Open Electives	LTP	Cr
18PHY632	Astrophysics	300	3	18OEL631	Advanced Statistical Analysis for Research	200	2
18PHY633	Biophotonics	300	3	18OEL632	Basics of PC Software	200	2
18PHY634	Earth's Atmosphere	300	3	18OEL633	Computer Hardware and Networking	200	2
18PHY635	Earth's Structure and Evolution	300	3	18OEL634	Consumer Protection Act	200	2
18PHY636	Fibre-optic Sensors and Applications	300	3	18OEL635	Corporate Communication	200	2
18PHY637	Fibre Optics and Technology	300	3	18OEL636	Design Studies	200	2
18PHY638	Nanophotonics	300	3	18OEL637	Disaster Management	200	2
18PHY639	Nonlinear Dynamics	300	3	18OEL638	Essentials of Cultural Studies	200	2
18PHY640	Nuclear Physics	300	3	18OEL639	Foundations of Mathematics	200	2
18PHY641	Optoelectronic Devices	300	3	18OEL640	Foundations of Quantum Mechanics	200	2
18PHY642	Physics of Cold Atoms and Ions	300	3	18OEL641	Glimpses of Life through Literature	200	2
18PHY643	Quantum Electrodynamics	300	3	18OEL642	Information Technology in Banking	200	2
18PHY644	Quantum Optics	300	3	18OEL644	Knowledge Management	200	2
18PHY645	Thin Film Technology	300	3	18OEL645	Marketing Research	200	2
18PHY646	Fundamentals of Plasma Physics	300	3	18OEL646	Media for Social Change	200	2
18PHY336	Space Physics	300	3	18OEL647	Media Management	200	2
18PHY648	Ultrafast lasers and Applications	300	3	18OEL648	Object-Oriented Programming	200	2
18PHY649	Energy and Environment in the 21st century	300	3	18OEL649	Painting and Sculpture	200	2
18PHY650	Introduction to solar physics	300	3	18OEL650	Personal Finance	200	2
18PHY651	Micro and Nano Magnetism Materials and its Applications	300	3	18OEL651	Principles of Advertising	200	2
18PHY652	X-ray Diffraction and its Applications	300	3	18OEL652	Principles of Packaging	200	2
18PHY653	Solar energy conversion	300	3	18OEL653	Scripting for Rural Broadcasting	200	2
18PHY654	Fabrication of Advanced Solar cell	300	3	18OEL654	Social Media Website Awareness	200	2
18PHY655	Astrophysics and Cosmology	300	3	18OEL655	Theatre Studies	200	2
18PHY656	Special Theory of Relativity			18OEL656	Writing for Technical Purposes	200	2
		300	3	18OEL657	Yoga and Personal Development	200	2
				18OEL658	Fundamentals of Legal Awareness	200	2
				18OEL659	Solid Waste Management and Utilization	200	2
				18OEL660	Relativistic Quantum Mechanics	200	2
				18OEL661	Robotics and Biology	200	2
				18OEL662	Science of Well Being	200	2
				18OEL663	Operating Systems and Networks	200	2
				18EN600	Technical Writing		
				18OEL664	Bhagavat Geeta and Personality Development		
				18OEL665	Chemical Aspects of Forensic Science		

^{*} One Open Elective course has to be taken by each student, at 3rd semester, from the list of Open electives offered by the School.

[®] Students undertaking and registering for a Live-in-Lab project can be exempted from registering for an Open Elective course in the fifth semester.