M Sc Chemistry Curriculum
2018

Course Code	Course Title	L T P	Cr	ES	Course Code	Course Title	L T P	Cr	ES
	SEMESTER 1					**SEMESTER 2**			
18CHY501	Quantum Chemistry	3 0 0	3		18CHY511	Chemical Thermodynamics and Equilibria	3 1 0	4	
18CHY505	Group Theory and its Applications	3 0 0	3		18CHY512	Molecular Spectroscopy	3 1 0	4	
18CHY502	Concepts in Inorganic Chemistry	3 1 0	4		18CHY513	Organic Reaction Mechanism	3 1 0	4	
18CHY503	Principles in Organic Chemistry	3 0 0	3		18CHY514	Heterocyclic and Natural Products Chemistry	3 0 0	3	
18CHY504	Coordination Chemistry	3 0 0	3		18CHY515	Organometallic Chemistry	3 0 0	3	
18CHY581	Inorganic Semi-micro Qualitative Analysis Lab.	0 0 5	2		18CHY583	Advanced Physical Chemistry Lab.	0 0 5	2	
18CHY582	Organic Quantitative Analysis Lab.	0 0 5	2		18CHY584	Inorganic Quantitative Analysis Lab.	0 0 5	2	
18CUL501	Cultural Education	2 0 0	P/F		18AVP501	Amrita Values Programme	1 0 0	1	
	TOTAL		20			TOTAL		23	
	SEMESTER 3					**SEMESTER 4**			
18CHY601	Electrochemistry, Kinetics and surface Chemistry	3 1 0	4		18CHY696	Dissertation		14	
18CHY602	Synthetic Strategies and Reagents	3 1 0	4			TOTAL		14	
18CHY603	Solid State Chemistry and Material Science	3 0 0	3						
18CHY604	Bioinorganic Chemistry	3 0 0	3						
	Elective	3 0 0	3						
18CHY681	Organic Qualitative Analysis Lab.	0 0 5	2						
18CHY682	Instrumental and Analytical Methods Lab.	0 0 5	2						
18CHY690	Live-in-Lab.@ / Open Elective*	2 0 0	2						
	TOTAL		23			TOTAL		80	

	Electives				Course Code	**Open Electives (2 0 0 2)**		
18CHY631	Applied Electrochemistry	3 0 0	3	E	18OEL631	Advanced Statistical Analysis for Research
18CHY632	Bioanalytical Chemistry	3 0 0	3	E	18OEL632	Basics of PC Software
18CHY633	Chemistry of Biomolecules	3 0 0	3	E	18OEL633	Computer Hardware and Networking
18CHY634	Industrial Chemistry	3 0 0	3	E	18OEL634	Consumer Protection Act
18CHY635	Industrial Stoichiometry	3 0 0	3	E	18OEL635	Corporate Communication
18CHY636	Material Science and Nanochemistry	3 0 0	3	E	18OEL636	Design Studies
18CHY637	Medicinal Chemistry	3 0 0	3	E	18OEL637	Disaster Management
18CHY638	Supramolecular Chemistry	3 0 0	3	E	18OEL638	Essentials of Cultural Studies
18CHY639	Nanomaterials for Biomedical Applications	3 0 0	3	E	18OEL639	Foundations of Mathematics
18CHY640	Industrial Metal Finishing Processes	3 0 0	3	E	18OEL640	Foundations of Quantum Mechanics
18CHY641	Biosensors: Fundamentals and Applications	3 0 0	3	E	18OEL641	Glimpses of Life through Literature
18CHY642	Computational Chemistry	3 0 0	3	E	18OEL642	Information Technology in Banking
18CHY643	Sustainable Chemical Science	3 0 0	3	E	18OEL644	Knowledge Management
					18OEL645	Marketing Research
					18OEL646	Media for Social Change
					18OEL647	Media Management
					18OEL648	Object-Oriented Programming
					18OEL649	Painting and Sculpture
					18OEL650	Personal Finance
					18OEL651	Principles of Advertising
					18OEL652	Principles of Packaging
					18OEL653	Scripting for Rural Broadcasting
					18OEL654	Social Media Website Awareness
					18OEL655	Theatre Studies
					18OEL656	Writing for Technical Purposes
					18OEL657	Yoga and Personal Development
					18OEL658	Fundamentals of Legal Awareness
					18OEL659	Solid Waste Management and Utilization
					18OEL660	Relativistic Quantum Mechanics
					18OEL661	Robotics and Biology
					18OEL662	Science of Well Being
					18OEL663	Operating Systems and Networks
					18EN600	Technical Writing
					18OEL664	Bhagavat Geeta and Personality Development
					18OEL665	Chemical Aspects of Forensic Science

*One Open Elective course is to be taken by each student, in the third 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 the Open Elective course in the third semester.