

Teaching Plan

1st Year, Semester - II

Year (1 st)	Course No.	Course Name	Course Instructor(s)	Remarks (core Theory/Laboratory)
1 st	CH121	Energetics & Dynamics of Chemistry Reaction	Pradip Ghorai	Core, Theory
1 st	CH122	Organic/Inorganic Qualitative Analysis	Swadhin Mandal + M. Venkataramanan + Debashish Koley + Soumyajit Roy + K. Srikanth	Core, Laboratory
1 st	ID121	Thermodynamics	Narayan Banerjee	Core, Theory
1 st	LS121	Genetics	Chanchal Das Gupta	Core, Theory
1 st	LS122	Biology Lab	Partha Datta + Rupak Datt.	Core, Laboratory
1 st	MA121	Linear Algebra and Ordinary Differential Equations	Anirban Banerjee + Satyaki Majumdar	Core, Theory
1 st	PH121	Electricity & Magnetism	Dibyendu Nandi	Core, Theory
1 st	PH122	Physics Lab	Partha Mitra + Dhananjay Nandi + Uday Kumar	Core, Laboratory
1 st	MC121	Computer Lab	Ananda Dasgupta + Rajesh Kumble Nayak + Rangeet Bhattacharyya	Core, Laboratory

2nd Year, Semester - IV

Year (2 nd)	Course No.	Course Name	Course Instructor(s)	Remarks (core Theory/Laboratory)
2 nd	CH221	Bonding, Structure and Symmetry	B.M. Deb	Core, Theory
2 nd	CH222	Physical Experiments	Priyadarshi De + Parna Gupta Bhattacharyya + Mousumi Das	Core, Laboratory
2 nd	ES221	Introduction to Geology	J Routh + M Jaiswal	Core, Theory
2 nd	LS221	Evolution & Organismal Biology	Anindita Bhadra	Core, Theory
2 nd	LS222	Evolutionary Biology	Sumana A + Anuradha Bhat.	Core, Laboratory
2 nd	MA221	Probability and Statistics	Asok K. Nanda	Core, Theory
2 nd	PH221	Waves & Optics	Ananda Dasgupta	Core, Theory
2 nd	PH222	Physics Lab	Ayan Banerjee + Nirmalya Ghosh + Bhavtosh Bansal	Core, Laboratory

3rd Year, Semester-VI

Year (3 rd)	Course No.	Course Name	Course Instructor(s)	Remarks (core Theory/Laboratory)
3 rd	LS321	Immunology & Microbiology	Jayasri Das Sarma and Rupak Datt	Core, Theory
3 rd	LS322	Cancer Biology	Tapas Sengupta	Core, Theory
3 rd	LS323	Physiology & Advanced Biochemistry	Partho Sarothi Roy	Core, Theory
3 rd	LS324	Advanced Cell Biology	Srimonti Sarkar and Jayasri Das Sarma	Core, Laboratory
3 rd	LS325	Immunology & Microbiology	Sankar Maiti	Core, Laboratory
3 rd	CH321	Transition Metal Chemistry	Sumit Khanra	Core, Theory
3 rd	CH322	Organic Synthesis	Debasish Halder	Core, Theory
3 rd	CH323	Single and Multiphoton Spectroscopy of Atoms and Molecules	Ashwani Kumar Tiwari	Core, Theory
3 rd	CH324	Chemistry Lab1 (Inorganic Synthesis)	Subhajit Bandyopadhyay, Sumit Khanra	Core, Laboratory
3 rd	CH325	Chemistry Lab 2 (Polymer Chemistry)	Raja Shunmugam, Sanjio S. Zade	Core, Laboratory
3 rd	ES321	Geodynamics	S Mitra	Core, Theory
3 rd	ES322	Igneous and Metamorphic Petrology	Ravikant V + S Dasgupta	Core, Theory
3 rd	ES323	Principles of Palaeontology	D Chattopadhyay	Core, Theory
3 rd	ES324	Petrology Laboratory	M Banerjee + Ravikant V	Core, Laboratory
3 rd	ES325	Palaeontology Laboratory	D Chattopadhyay + J Pattanaik	Core, Laboratory
3 rd	MA321	Topology	Sachindranath Jayaraman	Core, Theory
3 rd	MA322	Geometry of Curves and Surfaces	Himadri Mukherjee	Core, Theory
3 rd	MA323	Algebra-II	Subrata Shyam Roy	Core, Theory
3 rd	MA324	Integration and Measure	Saugata Bandyopadhyay	Core, Theory
3 rd	MA325	Statistics Laboratory	Satyaki Majumdar	Core, Laboratory
3 rd	PH321	Statistical Mechanics	Arindam Kundagrami	Core/Theory
3 rd	PH322	Condensed Matter Physics I	Subhasis Sinha	Core, Theory
3 rd	PH323	Nuclear & Particle Physics	Ritesh Singh	Core, Theory
3 rd	PH324	Exptl Physics VIA – Condensed Matter Physics	Bipul Pal+Chiranjib Mitra	Core, Laboratory
3 rd	PH325	Exptl VIB – Nuclear & Particle Physics	Satyaki Bhattacharya+ Swapan Datta	Core, Laboratory

4th Year, Semester-VIII

Year (4 th)	Course No.	Course Name	Course Instructor(s)	Remarks (core/elective/ID; Theory/Laboratory)
4 th	LS421	Plant biology and Taxonomy	Punyaslok Bhadury + Robert Chandran	Elective, Theory
4 th	LS422	Structural biology	Chanchal DasGupta + Partha Datta	Elective, Laboratory
4 th	LS423	Plant Biology	Robert Chandran + P.Bhadury	Elective, Laboratory
4 th	ID424	Structural Biology	Chanchal Das.Gupta + Partha Datta	ID/ Theory
4 th	ID425	Biostatistics and Bioinformatics	P.P. Majumdar + Rober Chandran	ID/ Theory
4 th	SM421	Seminar	Srimonti Sarkar + Anuradha Bhat.	
4 th	CH421	Synthetic Methodologies & Natural Products	Jyotirmayee Dash	Elective, Theory
4 th	CH422	Chemistry of Materials	M. Venkatramanan + Sayan Bhattacharyya	Elective, Theory
4 th	CH423	Medicinal Chemistry	Balaram Mukhopadhyay	Elective, Theory
4 th	CH424	Lab Rotation	Sanjio S. Zade	Core, Laboratory
4 th	ID426	Symmetry	Amlan Kusum Roy	ID, Theory
4 th	ID427	Physical Methods for Structure Elucidation	Swaadhin Mandal + C. Malla Reddy + Arindam Mukherjee + Rangeet Bhattacharyya	ID, Theory
4 th	ID428	Fluorescence Spectroscopy: Principles and Applications	Prasun Mandal	ID, Theory
4 th	SM421	Seminar		
4 th	ES421	Precambrian and Phanerozoic Geology	Ravikant V + P Sanyal	Core, Theory
4 th	ES422	Isotope Geology	T Dalai + P Sanyal	Core, Theory
4 th	ES423	Economic Geology	S Dasgupta + J Pattanaik	Core, Theory
4 th	ID429	Environmental Pollution and Biogeochemical Cycles	S Ray + J Routh	ID, Theory
4 th	ID441	Introduction to Oceanography	J Pattanaik + T Dalai	ID, Theory
4 th	SM421	Seminar	M Jaiswal + M Banerjee	
4 th	MA421	Distribution Theory and Fourier Analysis	Subrata Shyam Roy	Core, Theory
4 th	MA422	Representations of Groups and Algebras	Himadri Mukherjee	Core, Theory

4 th	MA423	Differential Geometry	V.V. Awasthi	Core, Theory
4 th	ID442	Ordinary Differential Equations	Saugata Bandyopadhyay	ID: Theory
4 th	MA424/ ID443	Computer Lab	Anirban Banerjee	ID; Laboratory
4 th	SM421	Seminar	Sachindranath Jayaraman	
4 th	PH421	Many Body Theory I	P.A.Sreeram	Elective, Theory
4 th	PH422	Theoretical High Energy Physics	Amitava Datta	Elective, Theory
4 th	PH423	Quantum Computation & Quantum Optics	Chiranjib Mitra	Elective, Theory
4 th	PH424	Exptl Physics VIIIA (Ultra High Vac & Atomic Spectrophysics)	Satyabrata Raj + Ayan Banerjee	Elective, Laboratory
4 th	PH425	Exptl Physics VIIIB (X- Ray Diffraction and Nanomaterials Synthesis)	Goutamdev Mukherjee	Elective, Laboratory
4 th	ID444	General Relativity & Cosmology	Golam Hossain & Parthasarathi Majumdar	ID, Theory
4 th	ID445	Non linear Dynamics	Soumtro Banerjee	ID, Theory
4 th	ID446	Biophysics	Rumi De	ID, Theory
4 th	SM421	Seminar		

5th Year, Semester-X

Year (5 th)	Course No.	Course Name	Course Instructor(s)	Remarks (core/elective/ID/Theory)
5 th	MA521	Wavelet Transform and Localization Operators	Saugata Bandyopadhyay	Elective, Reading Course
5 th	MA523	Basic Statistical Decision Theory: Bayesian Perspective	Satyaki Mazumber	Elective, Reading Course
5 th	MA524	Operator Theory and Operator Algebras	Subrata Shyam Roy	Elective, Reading Course