

Semester V & VII – FALL 2017

List of courses

Code	Course	Name of Coordinator*, participating faculty	Credits	Open in semesters
BIO 313	Advanced Molecular Biology	Mayurika Lahiri*, Gayathri Pananghat	4	V
BIO 311	Advanced Cell Biology	Nagaraj Balasubramanian*, Thomas Pucadyil	4	V
BIO 310	Biostatistics	Ramana Athreya*, Milind Watve	4	V and VII
BIO 314	Bioinformatics	M S Madhusudhan	4	V and VII
BIO 320	Genetics	Richa Rikhy*, Girish Ratnaparkhi	4	V and VII
BIO 321	Plant Biology I	Anjan Banerjee*, Sagar Pandit	4	V and VII
BIO 410	Advanced Biochemistry I	Sudha Rajamani*, Siddesh Kamat	4	V and VII
BIO 322	Biophysics-I	Chaitanya Athale	4	V and VII
BIO 411	Ecology I	Deepak Barua	4	V and VII
BIO 334	Neurobiology I	Suhita Nadkarni*, Nixon Abraham	3	V and VII
BIO 431	Epigenetics	Sanjeev Galande	3	V and VII
BIO 454	Structural Biology	Saikrishnan Kayarat*, Gayathri Pananghat, Jeetender Chugh	3	V and VII
BIO 301	Lab/Theory Project	Collins Assisi	3	V
BIO 401	Lab/Theory Project	Collins Assisi	3	VII
BIO 352	Animal Physiology II	N K Subhedar	3	VII
BIO 353	Immunology II	Vineeta Bal*, Satyajit Rath	3	VII
CHM311	Physical Organic Chemistry	Jeet Kalia	4	V and VII
CHM312	Main Group Chemistry	Shabana Khan	4	V and VII
CHM320	Symmetry and Group Theory	Jeetender Chugh*, Alope Das	4	V and VII
CHM331	Self-Assembly in Chemistry	Pinaki Talukdar	3	V and VII
CHM332	Separation Principles and techniques	Britto Sandanaraj	3	V and VII
CHM340	Advanced Organic Chemistry Laboratory	Neeraja Dashaputre*, Harinath Chakrapani	3	V
CHM410	Advanced Molecular Spectroscopy	Partha Hazra*, Pankaj Mandal, Nirmalya Ballav	4	VII
CHM411	Organic Synthesis – II	B. Gnanaprakasam	4	VII
CHM413	Bioinorganic Chemistry	R. Boomishankar*, V. G. Anand	4	VII
CHM430	Advanced Physical Chemistry Laboratory	Pramod Pillai*, Angshuman Nag, M. Mushtafa, Neeraja Dashaputre	3	VII
CHM431	Chemical Biology	Amrita Hazra*, K. N. Ganesh	3	VII
CHM432	Solid State Chemistry	Angshuman Nag	3	VII
CHM436	Molecular Modelling and Simulation	Arun Venkatnathan	3	VII
CHM445	Electrochemistry	M. Musthafa	3	VII

CHM421	Polymer Chemistry	M. Jayakannan	4	VII
CHM301	Lab Training/ Theory Project – I	M. Musthafa	3	V
CHM401	Lab Training/ Theory Project – II	M. Musthafa	3	VII
MTH310	Group Theory	Chandrasheel Bhagwat	4	V and VII
MTH311	Analysis	Anisa Chorwadwala	4	V and VII
MTH312	Point Set Topology	Vivek Mallick	4	V and VII
MTH318	Combinatorics	Kaneenika Sinha	4	V and VII
MTH314	Statistical Inference	Uttara Naik-Nimbalkar	4	V and VII
MTH301	Lab Training/Theory Project	Chandrasheel Bhagwat	3	V
MTH410	Galois Theory	Chitrabhanu Chaudhari	4	VII
MTH421	Measure Theory & Integration	Mousomi Bhakta	4	VII
MTH412	Algebraic Topology	Diganta Borah	4	VII
MTH413	Algorithms	Soumen Maity	4	VII
MTH415	Probability	Anup Biswas	4	VII
MTH417	Ordinary Differential Equations	Krishna Kaipa	4	VII
MTH430	Topics in Algebra: Lie Algebras	Anupam Singh	3	VII
MTH401	Lab Training/Theory Project	Chandrasheel Bhagwat	3	VII
PHY310	Mathematical Methods in Physics	Nabamita Banerjee	4	V and VII
PHY311	Classical Mechanics	G. Ambika	4	V and VII
PHY312	Electrodynamics	Rajeev Bhalerao	4	V and VII
PHY313	Quantum Mechanics I	T.S. Mahesh	4	V and VII
PHY330	Physics Lab IV	Aparna Deshpande*, Surjeet Singh	3	V
PHY334	Astronomy and Astrophysics	Ramana Athreya	3	V and VII
PHY340	Methods of Experimental Physics	Sunil Nair*, Shouvik Datta	3	V and VII
PHY410	Physics Lab VI	G.V. Pavan Kumar*, C.V. Dharmadhikari, Shivprasad Patil	4	VII
PHY411	Condensed Matter Physics I	Prasenjit Ghosh	4	VII
PHY412	Statistical Mechanics II	Deepak Dhar	4	VII
PHY462	Plasma Physics	Prasad Subramanian	3	V and VII
PHY453	Computational Physics	Apratim Chatterji*, Sreejith G.J.	3	VII
PHY461	Quantum Field Theory	Arun Thalapillil	3	VII
PHY301	Lab Training/ Theory Project	Arijit Bhattacharyay	3	V
PHY401	Lab Training/ Theory Project	Arijit Bhattacharyay	3	VII
ECS322	Landscapes and Earth surface processes	Argha Banerjee	4	V and VII
ECS325	Numerical Computation using MATLAB	Suhas Ettammal*, Ritima Das	4	V and VII
ECS315	Physics of Atmosphere & Ocean	Neena Joseph Mani	4	V and VII
ECS314	Earth and Life History	Ankush Shrivastava(Gyana for time being)	4	V and VII
ECS316	Earth and Planetary Materials	Shreyas Managave	4	V and VII
ECS330	Earth and Planetary Materials Lab	Shreyas Managave*, Ankush Shrivastava	3	V and VII
ECS301	Lab Training/Theory project	Neena Joseph Mani	3	V
ECS401	Lab Training/Theory project	Neena Joseph Mani	3	VII
HSS332	Art and Science of Numismatics	Pushkar Sohoni	3	V and VII
HSS312	Perspectives on Sound	Aditi Deo*, John Mathew	4	V and VII
HSS351	Technological Evolution of	John Mathew*, Anil Zankar	3	V and VII

	Cinema			
HSS411	Contemporary Women Novelists	Pooja Sancheti	4	V and VII
HSS301	Lab training/Theory project- Topics in the History of Science	John Mathew	3	V
HSS401	Lab training/Theory project- Topics in the History of Science	Pushkar Sohoni	3	VII

Dean, Graduate Studies,
March 31, 2017