

Teaching Assignment Spring Semester

(Session: 2022-23)

Course code with Title	Instructors	Tutors
1xx Courses		
BIO102- Gene expression and development	JS/ AKB	
BIO112- Biology Lab II	MS/ IB	
CHM102- Atoms molecules and symmetry	RR(C)	
CHM112- Chemistry Lab II	(SKB)/ (DA)/ (KRV)/(RKR)	
HSS102- History of Science	VR	
IDC102- Hands on electronics	VB	SB(P)
MTH102- Analysis in one variable	TK/ SOM	
PHY102-Electromagnetism	GS	AC, KPY, PK(P)
PHY112- Physics Lab II	MS(P)	KPS, Paramdeep
2xx Courses		
BIO202 - Behavior and Ecology	MJ/SD(B)	
BIO212 - Biology Lab IV	SST(B)/RR(B)/RY/ SD (B)/VN	
CHM202 - Energetics and dynamics of chemical reactions	SR	
CHM212 - Chemistry Lab IV	SBM/RS	
MTH202 - Probability and Statistics	LS/KG	
PHY202 - Thermodynamics and statistical physics	DC	RSJ/KPY/SG(P)
PHY212 - Physics Laboratory IV	SS(P)	KD/SG(P)
HSS202 - Philosophy of science	PK(H)	
IDC201 - Astronomy and astrophysics	PK(P)	
IDC203 - Introduction to earth science	SB(E)/SBH/YAP	
IDC204 – Theory of Computation	SDM	
Seminar Courses		
IDC352 - Seminar (Attending)	PB/RR/RRC/KPY/VV	
IDC452 - Seminar (Delivering)	PB/RR/RRC/TB/VV	
IDC602 - Seminar (Attend & Deliver)	PB/RR/SM(BC)/JSB/VV/BS	
Biology Core Courses (BIO3xx)		
BIO304 - Essential Biochemistry	KC	
BIO305 - Advanced developmental biology	SM(B)	
BIO306 – Plants: Form and function	SAS	
BIO312 – Development and physiology lab	LM/RV	
Biology Major Courses (BIO4xx)		
BIO403 – Advanced evolutionary biology	VN	
BIO404 – Cellular and molecular basis of the immune response	AM(B)	
BIO412 – Lab on biophysical and spectroscopic tools	PG/SM(BC)	
Chemistry Major Courses (CHM3xx)		
CHM304 – Symmetry in chemistry	PB	
CHM305 – Physical Organic chemistry	SKP(C)	
CHM306 – Transition Metal chemistry	SKB	
CHM312 - Inorganic chemistry lab	DA	
Chemistry Major Courses (CHM4xx)		
CHM403 – Analytical Chemistry	JG	
CHM404 – Statistical Thermodynamics	AKD	
CHM412 – Analytical chemistry laboratory	SSG	

Mathematics Major Courses (MTH3xx)		
MTH305 – Complex Analysis	CK	
MTH306 – Measure and Integration theory	SKP(M)	
MTH307 – Topology	AM(M)	
MTH308 – Rings and Modules	VRS	
Physics Major Courses (PHY3xx)		
PHY304 - Statistical mechanics	PD(P)	
PHY306 – Advanced quantum mechanics	AV	
PHY312 - Advanced Electronics and instrumentation lab	SJ	
Physics Major Courses (PHY4xx)		
PHY412 – Condensed matter physics lab	YS	
Physics PhD Courses (PHY6xx)		
PHY603 - Review of statistical mechanics	AC	
PHY604 – Review of quantum mechanics	KD	
Mathematics PhD Courses (MTH6xx)		
MTH602 - Topics in Topology	CB	
MTH604 - Homological and commutative algebra	YP	
MTH605 - Topics in Analysis	RP	
Electives		
Environmental Science		
EES301- Sedimentology and Concepts in Stratigraphy	SB(E)	
EES401 - Quantitative data analysis in earth and environmental sciences	BS	
EES402- Geomorphology and earth surface processes	AA	
EES405 - Climate Data Analysis and Visualization	RA	
EES406 Introduction to atmospheric and climate Sciences	VS	
EES408 -Igneous and Metamorphic Petrology	SBH	
EES642 Environmental microbiology	SP	
EES644 Principles of microwave remote sensing	CO	
Humanities & Social Sciences		
HSS601- Identity, Power and Place (Only for HSS PhD)	VR	
HSS613- The Social History of Science in Modern India	VR	
HSS622 - Cities: Urban Theory and Laboratory	AS/ RB	
HSS634 - Themes in Infrastructure Studies	AS/ RB	
HSS641 Research Methods in the Humanities and Social Sciences (Only for HSS PhD)	VR	
HSS642 - Science and society	NGP/VR/ ASJ	
HSS650 - Public Policy	DS	
Inter-disciplinary Courses		
IDC403- Protein Engineering	PG	
IDC410 - Machine Learning	KSS (Coordinator)	
IDC411- School science curriculum and textbooks	SSA/HKD	
IDC412 – Field Work	AK	
Biology		
BIO454 - Neuroscience	SB	
BIO606 - Biostatistics	NGP	
BIO614-Topics in Evolutionary Biology	NGP	
BIO616-Animal Behavior	MJ	
BIO459/BIO630 - Epigenetics	KSS	

Chemistry		
CHM307- Electrochemistry and Ionic Equilibria	ARC	
CHM604 - Advanced organic chemistry	SAB	
CHM609 - Polymer Chemistry	RKR	
CHM611- Frontiers of organometallic chemistry	SM(C)	
CHM612 - Asymmetric Synthesis & Catalysis	RVA	
CHM616 - Computational Chemistry	KRS	
CHM623 - Concepts in nanomaterials and chemical applications	UKG	
CHM626 - Photochemistry - concepts, techniques and applications	SV	
CHM629 - Magnetochemistry*	KRV	
Mathematics		
MTH407 – Partial Differential Equations	JK	
MTH410 - Algebraic topology	CB	
MTH416 - Arithmetic of Elliptic curves	CAS	
MTH419 - Number Theory	KHP	
MTH422 – Representations of finite groups	AG	
MTH425 – Geometric group theory	PS	
MTH430 – Random Graphs	NS	
MTH434 - Quadratic forms over fields.	AK	
MTH436 - An introduction to Knots and Braids	MS(M)	
Physics		
PHY637 - Astrophysics	JSB	
PHY639- Topics in Biophysics	TB	
PHY644 – Foundations of Quantum Mechanics	MNB	
PHY649 - Advanced experiments in physics: Lasers and optics	KPS	
PHY652 – Phase Transition and Critical Phenomenon	RK	
PHY654 - Cosmology and galaxy formation	HKJ	
PHY655 – Special topics in Particle physics	ASJ	
PHY663 - Relativistic cosmology and the early universe	KL	
PHY665 – Quantum Phase of matter and phase transitions	SK(P)	

***Course Approval to be obtained from Senate**

Expansion of Initials of Faculty			
Initials	Name	Initials	Name
AA	Dr. Anoop Ambili	PRC	Dr. Parth R Chauhan
AB	Dr. Anirban Bose (Inspire faculty)	PS	Dr. Pranab Sardar
AC	Dr. Abhishek Chaudhuri	RA(E)	Dr. Raju Attada
ADC	Dr. Adrene Freeda D'Cruz	RB	Dr. Ritajyoti Bandhopadhyay
AG	Dr. Abhik Gnguli	RC	Dr. Rachna Chhaba
AJ	Dr. Anosh Joseph	RK(P)	Dr. Rajeev Kapri
AK	Dr. Amit Kulshrestha	RKR	Dr. Raj Kumar Roy
AKB	Prof. Anand K. Bachhawat	RP	Dr. Ratan Pal
AKD	Dr. Arijit K De	RR(B)	Dr. Rajesh Ramachandran
AM(B)	Dr. Arunika Mukhopadhaya	RR(C)	Dr. Ramesh Ramachandran
AM(H)	Dr. Arun Murthy	RRC(B)	Dr. Rhitoban Ray Chaudhuri
AM(M)	Dr. Alok Maharana	RS	Dr. S. V. Rama Sastry
ARB	Dr. Aru Beri	RSJ	Prof. Ramandeep S. Johal
ARC	Dr. Angshuman Roy Choudhury	RVA	Dr. R. Vijay Anand
AS	Dr. Anu Sabhlok	RY	Dr. Ram Yadav
ASJ	Dr. Ambresh Shivaji	SAB	Dr. S. Arulananda Babu
AV	Dr. Ananth Venkatesan	SAS	Dr. Santosh Satbhai
BS	Dr. Baerbel Sinha	SB(B)	Dr. Samarjit Bhattacharyya
CAS	Dr. Chandrakant Aribam Sharma	SB(E)	Dr. Sharmila Bhattacharya (Inspire faculty)
CB	Dr. Chetan Balwe	SB(P)	Dr. Samir Biswas
CK	Prof. Chanchal Kumar	SBH	Dr. Sourabh Bhattacharya
CO	Dr. Chandrakant Ojha	SBM	Dr. Subhabrata Maiti
DA	Dr. Debashish Adhikari	SBP	Dr. Shashi Bhushan Pandit
DC	Dr. Dipanjan Chakraborty	SD(B)	Dr. Sadhan Das
DJ	Dr. Debrina Jana (Inspire faculty)	SD(P)	Dr. Sanjib Dey (Inspire faculty)
DS	Dr. Debdulal Saha	SDM	Dr. Shane D'Mello
GS	Dr. Goutam Sheet	SG(C)	Dr. Samrat Ghosh
HKJ	Dr. Harvinder Kaur Jassal	SG(P)	Dr. Sandeep Goyal
IA	Dr. Ishan Agarwal	SJ	Dr. Satyajit Jena
IB	Dr. Indranil Banerjee	SK(P)	Dr. Sanjeev Kumar
IL	Dr. Indrajit L	SKB	Dr. Suman K. Barman
JG	Dr. Jino George	SKM	Dr. Shravan Kumar Mishra
JK	Dr. Jotsaroop Kaur	SKP(C)	Dr. Santanu K Pal
JS	Dr. Jogender Singh	SKP(M)	Dr. Santosh Kumar Pamula
JSB	Prof. Jasjeet Singh Bagla	SM(B)	Dr. Sudip Mandal
KC	Prof. Kausik Chattopadhyay	SM(BC)	Prof. Samrat Mukhopadhyay
KD	Prof. Kavita Dorai	SM(C)	Prof. Sanjay Mandal
KG	Dr. Krishnendu Gongopadhyay	SM(P)	Dr. Smriti Mahajan (Inspire faculty)
KHP	Prof. Kapil H. Paranjape	SOM	Dr. Soma Maity
KL	Dr. Kinjalk Lochan	SP(E)	Dr. Sunil Patil
KPL	Prof. Kulinder Pal Singh	SR	Dr. Sabyasachi Rakshit
KPS	Dr. Kamal Priya Singh	SS(B)	Prof. Somdatta Sinha
KPY	Dr. K.P Yogendran	SS(C)	Dr. Sanjay Singh
KRS	Dr. K.R. Shamasundar	SS(P)	Prof. Sudeshna Sinha
KRV	Dr. Kuduva R Vignesh	SSA	Prof. Sadhna Saxena

KSS	Dr. Kuljeet Singh Sandhu	SSG	Dr. Sanchita Sengupta
LM	Dr. Lolitika Mandal	SST(B)	Dr. Sharvan Sehwat
LS	Dr. Lingraj Sahu	SUM	Dr. Sugandha Maheshwary (Inspire faculty)
MJ	Dr. Manjari Jain	SV	Dr. Sugumar Venkatramani
MNB	Dr. Manabendra Nath Bera	TB	Dr. Tripta Bhatia
MS(B)	Dr. Mahak Sharma	TK	Dr. Tanushree Khandai
MS(C)	Dr. Monika Sharma (Inspire faculty)	UG	Dr. Ujjal K. Gautam
MS(M)	Dr. Mahender Singh	VB	Dr. Vishal Bharadwaj (Inspire faculty)
MS(P)	Dr. Mandip Singh	VN	Dr. Vidya Negi
NGP	Prof. N.G. Prasad	VR	Dr. V. Rajesh
NS	Dr. Neeraja Sahasrabudhe	VRS	Dr. Varadhras Ravi Srinivasan
PB	Dr. P. Balanarayan	VS	Dr. Vinayak Sinha
PD	Prasenjit Das	VV	Dr. Vaibhav Vaish
PG	Prof. Purnananda Guptasarma	YAP	Dr. Yunus Ali Pulpadan
PK(H)	Dr. Philose Koshy	YP	Dr. Yashonidhi Pandey
PK(P)	Dr. Pankaj Kushwaha	YS	Dr. Yogesh Singh