

Graduating Batch 2018

Doctor of Philosophy

Biological Sciences

Himanshu Joshi

Thesis Supervisor: **Dr. Vikas Jain**

Thesis Title: Molecular Insights into the Function of Lysozyme Domain of Mycobacteriophage D29 Peptidoglycan Hydrolase

Deepti Chaturvedi

Thesis Supervisor: **Dr. R Mahalakshmi**

Thesis Title: Biophysical Determinants of Transmembrane β -Barrel Folding and Stability

Puja Kumari

Thesis Supervisor: **Dr. Himanshu Kumar**

Thesis Title: Essential Role of HCMV in Oncogenesis Through Evasion of Host Innate Immunity

Bhagaban Mallik

Thesis Supervisor: **Dr. Vimlesh Kumar**

Thesis Title: Regulation of Synaptic Morphogenesis and Function by Membrane Deforming Proteins at the Drosophila Neuromuscular Junction

Rupali Yadav

Thesis Supervisor: **Dr. Sunando Datta**

Thesis Title: Structural and Thermodynamic Studies on Metal Binding Proteins from Entamoeba Histolytica

Ashok Kumar Sharma

Thesis Supervisor: **Dr. Vineet K Sharma**

Thesis Title: Development of Computational Models and Algorithms for Designing of Novel Microbiome-based Therapeutics

Smriti Singh

Thesis Supervisor: **Dr. Sanjeev Shukla**

Thesis Title: Study of DNA Methylation-mediated Regulation of PKM Splicing in Breast Cancer

Chemistry

Adiki Raja Sekhar

Thesis Supervisor: **Dr. J Sankar**

Thesis Title: Towards Multi-BODIPY Macrocycles: Syntheses and Applications

Dhananjay Dey

Thesis Supervisor: **Dr. Deepak Chopra**

Thesis Title: A Quantitative Investigation of Intermolecular Interactions in the Solid State in Multi-functional Organic Compounds



Graduating Batch 2018

Doctor of Philosophy

Chemistry

Prabhusrinivas Yavvari

Thesis Supervisor: **Dr. Aasheesh Srivastava**

Thesis Title: Modulating Anti-microbial and Drug Delivery Potential of Polymers with Amine Pendants

Qysar Maqbool

Thesis Supervisor: **Dr. Aasheesh Srivastava**

Thesis Title: Tween-Mediated Synthesis of Novel Nanoarchitectures of Mesoporous Oxide Materials for Applications in Energy and Medicine

Biju Basumatary

Thesis Supervisor: **Dr. J Sankar**

Thesis Title: Peripheral Functionalization, π -Expansion and Innocence of Corroles: Structure, Photophysical and Electrochemical Investigations

Moumita Mondal

Thesis Supervisor: **Dr. Joyanta Choudhury**

Thesis Title: Palladium(II)-NHC Complexes for Aromatic C-H Functionalization Catalysis: from Homogeneous to Heterogeneous Regime

Ranjeesh T K

Thesis Supervisor: **Dr. Joyanta Choudhury**

Thesis Title: Developing a Unique Reactivity of N-Heterocyclic Carbene (NHC)-Metal Template in C-H Activation-Annulation Catalysis: Synthetic and Mechanistic Studies

Arnab Biswas

Thesis Supervisor: **Professor Vinod K Singh**

Thesis Title: Asymmetric Construction of Oxygen Containing Heterocyclic Moieties and Alkylation of Nitrogen Heterocycles

Narayani Ghosh

Thesis Supervisor: **Professor Saptarshi Mukherjee**

Thesis Title: Exploring Protein-Drug and Protein-Surfactant Interactions by Spectroscopic and Calorimetric Approaches

Nirmal Kumar Das

Thesis Supervisor: **Professor Saptarshi Mukherjee**

Thesis Title: Spectroscopic Investigations of Organized Assemblies Having Biological Significances



Graduating Batch 2018

Doctor of Philosophy

Chemistry

Sadhan Jana

Thesis Supervisor: **Professor Sangit Kumar**

Thesis Title: Functionalization of Olefins by Sulfur Based Catalyst/Reagents: Application in Asymmetric-Bromolactonization and Oxy-trifluoromethylation

Biswajit Parhi

Thesis Supervisor: **Dr. Prasanta Ghorai**

Thesis Title: Enantio-selective Synthesis of Isochromenes, Lactones, and Dihydroisoquinolines using Quinine Derived Squaramide Catalyst

Chander Pratap Singh

Thesis Supervisor: **Dr. Amit Paul**

Thesis Title: Carbon Based Materials for Energy Storage Applications: Improving the Science of Energy Storage

Falguni Chandra

Thesis Supervisor: **Dr. Apurba Lal Koner**

Thesis Title: Modulating Acid-Base and Photophysical Properties of Drugs Using cucurbit[7]uril

Kaushik Pal

Thesis Supervisor: **Dr. Apurba Lal Koner**

Thesis Title: Single and Two-photon Active Fluorescent and Fluorogenic Probe for Formulation, Cancer Detection, Bioconjugation, Measuring Polarity Inside Cellular Organelle and Removal of Stress

Lad Bapurao Sudam

Thesis Supervisor: **Dr. Sreenivas Katukojvala**

Thesis Title: Divergent Reactivity of Diazoenals in the Construction of N/O- Heterocycles

Moh Sattar

Thesis Supervisor: **Professor Sangit Kumar**

Thesis Title: C-H Bond Functionalization of Ferrocene and Oxindoles: Synthesis of Organochalcogenides and Benzofuro- and Indolo-indoles

Nivesh Kumar

Thesis Supervisor: **Professor Alakesh Bisai**

Thesis Title: Total Syntheses of 3a,3a'-Bis-Pyrrolo[2,3-b]indoline Alkaloids via the Development of Catalytic Deacylative Alkylations (DaA)



Graduating Batch 2018

Doctor of Philosophy

Chemistry

Ramakanta Mondal

Thesis Supervisor: **Professor Saptarshi Mukherjee**

Thesis Title: Role of Surfactants in Drug Delivery and Protein Unfolding/Refolding Dynamics: A Spectroscopy and Calorimetric Approach

Reddy Rajasekhar Reddy

Thesis Supervisor: **Dr. Prasanta Ghorai**

Thesis Title: Enantio- and Diastereoselective Synthesis of Substituted Oxa-spirocycles by Utilizing Hydrogen Bond Donor Based Bifunctional Organocatalysts

Riki Das

Thesis Supervisor: **Dr. Manmohan Kapur**

Thesis Title: Weakly-Coordinating Directing Groups in Transition Metal Catalyzed C-H Functionalization

Saikat Chaudhuri

Thesis Supervisor: **Professor Alakesh Bisai**

Thesis Title: Total Syntheses of Naturally Occurring Clavine Alkaloids

Sanjay Maity

Thesis Supervisor: **Dr. Prasanta Ghorai**

Thesis Title: Organocatalytic, Enantio- and Diastereoselective Synthesis of Oxa-and Carbocycles

Shrivats Semwal

Thesis Supervisor: **Dr. Joyanta Choudhury**

Thesis Title: Stereo-electronically Tuneable and Stimuli-Switchable Organometallic Complexes for Transfer Hydrogenation, Hydrogenation and Dehydrogenation Catalysis: Toward Reversible Energy-Storage and Delivery

Sujoy Bandyopadhyay

Thesis Supervisor: **Dr. Abhijit Patra**

Thesis Title: Conjugated Porous Organic Polymers: Fluorescence-based Sensing, Photocatalysis and Energy Storage

Suman Mallick

Thesis Supervisor: **Dr. Apurba Lal Koner**

Thesis Title: Exploring Photophysics of Solvatochromic 2,3-Naphthalimide Dyes with Potential in Fluorescence Sensing



Graduating Batch 2018

Doctor of Philosophy

Chemistry

Amarchand Parida

Thesis Supervisor: **Professor Alakesh Bisai**

Thesis Title: Total Syntheses of Icetaxane Diterpenoids via Benzoheptannulation Strategy

Amit Kumar Mondal

Thesis Supervisor: **Dr. Sanjit Konar**

Thesis Title: Investigation of Magnetic Anisotropy and Slow Magnetic Relaxation in Cobalt(II) Based Single-Ion Magnets

Physics

Patel Avani Vikrambhai

Thesis Supervisor: **Dr. Sukanta Panda**

Thesis Title: Late Time Cosmology of $f(R)$ Theory of Modified Gravity

Paresh Chandra Rout

Thesis Supervisor: **Dr. Ravi Shankar Singh**
Dr. Varadharajan Srinivasan

Thesis Title: Engineering Multiferroic Properties in Double Perovskite Oxides and Metal-Organic Frameworks: A First-Principles Approach

Debarati Sarkar

Thesis Supervisor: **Dr. Snigdha Thakur**

Thesis Title: The Dynamics of Chemo-mechanically Active Polymer: Loop Formation, Self-propulsion and Spontaneous Oscillation

Eswaraphanindra V

Thesis Supervisor: **Dr. Dhanvir Singh Rana**

Thesis Title: Terahertz Charge Dynamics in the Proximity of Quantum Critical Point in the Phase Diagram of Rare Earth Nickelates

Deepak Singh

Thesis Supervisor: **Dr. Ravi Prakash Singh**

Thesis Title: Unconventional Superconducting Properties of Noncentrosymmetric Superconductors

A total of 40 Degrees of Doctor of Philosophy will be awarded. 7 graduands are from Biological Sciences, 28 from Chemistry, and 5 from Physics.



Graduating Batch 2018

Dual Degree of Bachelor of Science and Master of Science

Biological Sciences

Narender Singh	Micah Elizabeth Titus
Ankit Shankar Pacha	Nishtha Verma
Ankur Kumar Singh	Nissi Mary Varghese
Anu Rajeev	Nistharsha D R
Aravind Pruthvi Puram	Parikshit Thoudam
Arun Joseph	Richika
Athira S Raj	Rohit Kumar
Azad G	Rounak Chaurasia
Mahajan Bhagyashri Deepak	Sajina A C
Bhavya Revathy V S	Sakshi Gupta
Dion Babu	Shilpa Gopan
Nimbalkar Gayatri Sudhir	Shinde Jui Anil
Hanuman Singh Dagur	Shinde Omkar Ramchandra
Jyothikamala R	Shreya Gupta
Katke Reena Harishchandra	Shrotri Saket Sandeep
Keshav Hibare	Subham Biswas
Mahajan Vibhuti Prakash	Wele Prachi Ramchandra
Mamatharani D V	

Chemistry

Archita Chatterjee	Aravind V
Akshaj Prem	Ardhra S
Alaka P	Aruna Chandran
Alvin Varghese	Aswathy K S



Graduating Batch 2018

Dual Degree of Bachelor of Science and Master of Science

Chemistry

Athulbabu T	Parul Thakur
Atreyee Mishra	Pranab Gain
Blesson Sunny	Riya Modi
Cavya Jose	Saeed Shareef
Darpan Agarwal	Sakhitha K C
Devi Prasad A S	Sarvesh Singh
Dinesh Arya	Shafna Ramsana S
Dona Mariya Vincent	Divyesh Rajendra Shah
Hegde Neha Jagadeesh	Shiv Pratap
Irin Cherian	Shraddha Ratan Gedam
Krishna Patidar	Shradha Behera
Kuldeep Singh	Sidharth T S
Lalkrishnan P H	Silpa P S
Lokesh Choudhary	Sonia M
Manvendra Singh	Sreya C A
Megha Manoharan	Subin P Suresh
Neha Maida	Unnikrishnan P
Nesta Benno Joseph	Unnikrishnan V B
Nihara R Sajeev	Vadapalli Sri Satya
Nikhil Raj Kariyandy	Vinod Kumar Kannaujiya
Nilotpal Kapuria	Vishal Meena
Pankaj Kumar	Vishnu Narayana Prasad K V
Partha Mondal	Yadu S



Graduating Batch 2018

Dual Degree of Bachelor of Science and Master of Science

Mathematics

Ashwin K
Ashok Kumar
Date Akshay Ravindra
Georgy C Luke
M V Ajay Kumar Nair
Maya Verma

Mayank Mishra
Mohammed Rameez Qureshi
Ritwik Upadhyay
Saoji Shravan Bhushan
Sreekanth D

Physics

Sruthibhai P V
Aiswarya K G
Amala P K
Ananya Samanta
Anjali Rathore
Anjitha Jose
Ankit Pathak
Anshuman Tripathi
Anubhav Kumar
Asif Ali
Aswin Madhu
Christin Puthur
Devesh Negi
Harsh Kumar
Harsh Sahu

Kadam Sangram Janardan
Kharat Amruta Shivaji
Maneesha Varghese
Mohammad Irfan
Navin Sridhar
Prashant Pandey
Pravir Kumar
Rajat Dalak
Rohit Prasad Bhatt
S Dhivya
Sarthak Choudhury
Survase Shravani Sadashiv
Siddharth Sharma
Srikant Ganguly
Sudarshan Sharma

A total of 130 Dual Degree of Bachelor of Science and Master of Science will be awarded. 35 graduands are from Biological Sciences, 54 from Chemistry, 11 from Mathematics, and 30 from Physics.



Graduating Batch 2018

Master of Science

Chemistry

Abhishek Kumar

Dibyajyoti Pathak

Gulshan Rani

Kanika Aggarwal

Pirudhan Karak

Prasenjit Gayen

Preeti Bhatt

Subhash

Vivek Singh

Mathematics

Arnab Dey Sarkar

Navin Ji Mishra

Prashant Tiwari

Riju Basak

Shubham Trivedi

Swapnil Tripathi

Physics

Albin Joseph

Arun

Keerthi Radhakrishnan

Monu

Neetu

Utkarsh Kumar

A total of 21 Master of Science Degrees will be awarded to students of Integrated Ph.D. programme. 9 graduands are from Chemistry, 6 from Mathematics and 6 from Physics.

Bachelor of Science

Mathematics

Rohitash Yadav

1 Bachelor of Science Degree in Mathematics will be awarded to student of BS-MS (Dual Degree) programme.

