

Graduates 2020

Doctor of Philosophy

Biological Sciences

Bharat R Iyer

Thesis Supervisor: **Dr. R Mahalakshami**

Thesis Title: Decoding Membrane Protein Folding and Function with the Prototypic Outer Membrane Enzyme PagP

Mehta Saurabh Jayeshkumar

Thesis Supervisor: **Dr. Ram Kumar Mishra**

Thesis Title: Drosophila ELYS: From Molecular Characterization to the Regulation of Dorsal Dynamics during Development

Ankit Gupta

Thesis Supervisor: **Dr. R Mahalakshmi**

Thesis Title: Interplay of Thermodynamic and Kinetic Stability in OMP Folding and Aggregation

Priyanka Sharma

Thesis Supervisor: **Dr. Sunando Datta**

Thesis Title: SNX27-retromer assembly directs MT1-MMP trafficking to invadopodia and promotes breast cancer metastasis

Usha Singh

Thesis Supervisor: **Dr. Ram Kumar Mishra**

Thesis Title: Nup88 stabilized through Nup62 interaction promotes NF- κ B dependent pathways in cancer

Aashutosh Tripathi

Thesis Supervisor: **Dr. Sunando Datta**

Thesis Title: Biochemical characterization of EhRab21 and its effector, EhC2B from *E. histolytica*

Neha Upadhyay

Thesis Supervisor: **Dr. Sourav Datta**

Thesis Title: The MATE transporter DTX30 modulates auxin homeostasis to regulate root development and promotes aluminium tolerance

Ajith Ashokan

Thesis Supervisor: **Dr. Vinita Gowda**

Thesis Title: Phylogenetic systematics, historical biogeography and character evolution in the taxonomically complex genus *Hedychium* J.Koenig (Zingiberaceae)



Graduates 2020

Doctor of Philosophy

Biological Sciences

Arpita Yadav

Thesis Supervisor: **Dr. Sourav Datta**

Thesis Title: Role of Arabidopsis B-box protein BBX31 in photomorphogenesis and UV-B protection

Abhishek Anil Dubey

Thesis Supervisor: **Dr. Vikas Jain**

Thesis Title: Identification and characterization of the molecular factors that establish methylotrophic metabolism in *Mycobacterium smegmatis*

Parul Mittal

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

Thesis Title: Functional and Evolutionary Insights into Genomes and Metagenomes

Pushendra Kumar Sahu

Thesis Supervisor: **Prof. Raghuvir Singh Tomar**

Thesis Title: Biochemical, genetic and chemical genetic characterization of CRG1, MRPL51 and YPR099C in *Saccharomyces cerevisiae*

Yadukrishnan P

Thesis Supervisor: **Dr. Sourav Datta**

Thesis Title: Role of COP1 in integrating light and ABA signaling pathways to optimize seedling development under stress conditions

Pilendra Kumar Thakre

Thesis Supervisor: **Prof. Raghuvir Singh Tomar**

Thesis Title: Probing the function of histone H3/H4 residues in the regulation of DNA damage, arsenite, and amino acid stress response in yeast

Prashant Kumar

Thesis Supervisors: **Dr. Vimlesh Kumar**
Dr. Apurba Lal Koner

Thesis Title: Design and Development of Biocompatible Fluorescent Markers through Bio-conjugation and Protein Engineering for Understanding the Cellular Events

Chemistry

Haribabu Chennamsetti

Thesis Supervisor: **Dr. Sreenivas Katukojvala**

Thesis Title: Design & Synthesis of Novel Ester Diazoenals and Diazodienals: Application to the Synthesis of Tetrahydroquinoline Fused Tetracyclic Molecules via Polycyclization of Rh-Dienalcarbenoids



Graduates 2020

Doctor of Philosophy

Chemistry

Rohith Singudas

Thesis Supervisor: **Dr. Vishal Rai**

Thesis Title: Precision in modification and analysis of proteins by targeting amine and carboxylic acid

Abhisek Midya

Thesis Supervisor: **Dr. Prasanta Ghorai**

Thesis Title: Organocatalytic Asymmetric Construction of Benzospiroketal, Benzodiquinane and Benzospirononane

Gurupada Hazra

Thesis Supervisor: **Dr. Prasanta Ghorai**

Thesis Title: Asymmetric Organocatalytic Cascade Cyclisation for the Synthesis of Benzoxaboroles, Isobenzofuryl Phosphonates, 2-Thioxo Quinolines

Subhrajyoti Bhandary

Thesis Supervisor: **Dr. Deepak Chopra**

Thesis Title: Unravelling the Role of Polymorphism and Interaction Topology towards a Quantitative Assessment of Intermolecular Interactions in Molecular Crystals

MD Waseem Hussain

Thesis Supervisor: **Dr. Abhijit Patra**

Thesis Title: N-rich nanoporous organic materials for CO₂ capture and conversion

Paridhi Saxena

Thesis Supervisor: **Dr. Manmohan Kapur**

Thesis Title: Transition-Metal-Catalyzed Directed C-H Functionalization of Heterocycles in C-C and C-X bond formation

Champak Dutta

Thesis Supervisor: **Dr. Joyanta Choudhury**

Thesis Title: Annulative π -Extension (APEX) with Metal-N-Heterocyclic Carbene Templates: A Unique Strategy toward New Classes of Cationic Polycyclic Heteroarenes

Avishek Roy

Thesis Supervisors: **Dr. Alakesh Bisai**

Dr. Aasheesh Srivastava

Thesis Title: Asymmetric Approaches to Hetero Dimeric Pyrroloindoline Alkaloids, Chimonanthidine and Calycanthidine



Graduates 2020

Doctor of Philosophy

Chemistry

Bijoy Dey

Thesis Supervisor: **Dr. Sanjit Konar**

Thesis Title: Investigation on Magnetic Bistable Systems, Fe(III) Based Spin Crossover (SCO) and Cu-Ln Coupled Single-Molecule Magnet (SMM)

Earth and Environmental Sciences

Samresh Kumar

Thesis Supervisor: **Dr. Ramya Sunder Raman**

Thesis Title: Source Apportionment of Fine Particles over a National Park in Central India

Physics

Baddipalli Harinathreddy

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

Thesis Title: Role of electron correlation and cation arrangements in perovskite derived transition metal oxides

K Santhosh Kumar

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

Thesis Title: Terahertz Electrodynamics of Correlated electrons in Transition Metal Oxides

Vipin Sudevan

Thesis Supervisor: **Dr. Rajib Saha**

Thesis Title: CMB Component Reconstruction and Angular Power Spectrum Estimation from Multi-Frequency Observations

Anirban Mondal

Thesis Supervisor: **Dr. K V Adarsh**

Thesis Title: Ultrafast exciton many-body interactions in semiconductor nanostructure: Cesium lead halide perovskite nanocrystals and tungsten sulphide/reduced Graphene oxide heterostructure

Ankita Budhraja

Thesis Supervisor: **Dr. Ambar Jain**

Thesis Title: Angularity Resummations and Jet Substructure Measurements at the Electron-Positron Collider



Graduates 2020

Doctor of Philosophy

Physics

Arghya Chattopadhyay

Thesis Supervisor: **Dr. Suvankar Dutta**

Thesis Title: Emergent Phase Space Description of Unitary Matrix Models and its Applications

Prabha Chuphal

Thesis Supervisor: **Dr. Snigdha Thakur**

Thesis Title: Understanding the dynamics of diffusiophoretically moving vesicle and colloids using computer simulations

A total of 33 Degrees of Doctor of Philosophy will be awarded. 15 graduands are from Biological Sciences, 10 from Chemistry, 1 from Earth and Environmental Sciences and 7 from Physics.



Graduates 2020

Master of Science

Chemistry

Ritu Bhardwaj

Rahul Giri

Mamata Maiti

Mathematics

Aditya Tiwari

Renu

Naveen Kumar

Rajesh Dey

Physics

Santu Kumar Bera

Muktajyoti Saha

Vivek Nayak

Gurmeet

Archit Vidyarthi

A total of 12 Master of Science Degrees were awarded to students of Integrated Ph.D. programme. 3 graduands are from Chemistry, 4 from Mathematics and 5 from Physics.



Graduates 2020

Dual Degree of Bachelor of Science and Master of Science

Biological Sciences

Rahul Kumar	Rishad M Shiraz
Shweta Choudhary	Sabitri Sinku
Aishwarya Kumar	Tejas Kiran Somvanshi
Akshita Gupta	Sonal
Anand Golait	Subhadeep Duari
Anjitha Ajay	Subhashis Natua
Anna Cherian	Subhisha Raj
Anubhav Basu	Surbhi
Anugrah S R	Tamal Kumar Das
Anup Kumar Prusty	Vishnu Narayanan S S
Anuvinda Unni	Anaswara Sugathan
B Madhumitha	Sooraj Krishnan P
Bhanu Pratap Singh	Vismaya T K
Bhisade Sagar Kailasrao	Arundhati Khenwar
Fathima Afsal	Sudeep Padmanabhan
Gayathri Pillai S	Rishi Rajendra Gandhi
Harsha P M	Jatin Khaimani
Harshal Wasnik	Anurag Singh
Hrshikesh M V	Radhika Mishra
Najla P V	Garima
Rajendra Behera	



Graduates 2020

Dual Degree of Bachelor of Science and Master of Science Chemistry

Anjali Dahat

Chinmay Patni

Manish Kumar Mohanty

Adhil Kabeer K

Anisha Suresh

Anju A K

Anoop Kumar Gautam

Ashutosh Agrahari

Ashutosh Kanojiya

Asim Bisoi

Bhupendra Singh

Biswajit Behera

Diya Raveendran

Fasil C

Gayathri Krishnan

Goturi Pavankumar

Mahesh Kotana

Maheshwari Aditi Sunil

Malavika Pramod

Midhula Wilson

Monojit Nandi

Nanditha K Narayanan

Patil Niraj Nitish

Parvesh Dagar

Rayantan Sadhukhan

Saurav K V

Shahabas Ali M E

Sidharth V S

Soumya Frederick

Sushmita Pal

Tarun Kumar Jayaswal

Vimal Kumar

Nivya Krishnan

Ningfode Vishwajeet Bharat

Subhaprad Ash

Arya Agarwal

Abir Dutta

Bitasik Khatua

Pranav Sreekumar

Anubhav Sharma

Haripriya B

Ajay Suresh

Shivam Saurav



Graduates 2020

Dual Degree of Bachelor of Science and Master of Science

Earth and Environmental Sciences

Arvind Meena

B Vamshi Vihar

M Niranjannaik

Rajput Mitesh Rakeshbhai

Ram Prakash Khemada

Shubham Tiwari

Alam Shweta Mahadeo

Umang Shrivastava

Ajusree V K

Alankrit Kaul Sahib

Amarjeet Lal

Arya A

Divyareshmi T R

Khandare Ajinkya Mohan

Manish Kumar Meena

Nidha Azeez E K

Nita Meena

Nithin Kumar

Prem Maheshwarkar

Rasia Shajahan

Roja Asharaf

Ruksana

Vivek Kumar

Debangan Mahanta

Mathematics

Deepak Dixit

Vidit Das

Aditesh Kumar Anand

Ekta Tiwari

Ranveer Kumar Singh

Sarfaraj Biswas

Shreyas Nagabhushana Samaga

Sreshta V

Vishal Gupta

Amritendu Das



Graduates 2020

Dual Degree of Bachelor of Science and Master of Science

Physics

Abhishek Nandekar	Manikandan N
Aadarsh Singh	Md Arshad
Aiswarya K	Moghe Aditi Raman
Anand A	Mrinmoy Baishya
Apratim Singh Chauhan	Navaneeth M
Aritra Mishra	Nayan Das
Aswin Shaji	Parag Bindal
Aswitha O	Nayak Parth Sunilkumar
Akshay Sunil Bhadage	Rahul G
Bhavesh Gautam	Razaul Mustafa
Thipe Bhushan Harishchandra	Ritesh Kumar Singh
Bikram Keshari Sahu	Shivam Pal
Drupad Nair	Shobhna Singh
Greeshma Sunil	Shreejith Rajeev
Greshma Babu	Siddhartha Poddar
Jai Kumar	Sidharth P G
K Sridevi	Subham Singh
Keshav Das Agarwal	Swadeepan Nanda
Khatu Nupur Ninad	Tharundev V V
Kundan Verma	Utkarsh Tripathi
Madhur Mehta	Varghese Libin Biju
Mamta Yadav	Yashraj Manish Wani



Graduates 2020

Dual Degree of Bachelor of Science and Master of Science

Physics

Meenakshi M

Abhijeet Mishra

Chakradhar R

Aurobinda Ghosh

Mishra Manav Prakashchandra

Swadhin Agrawal

Sourav Ghosh

A total of 169 Dual Degree of Bachelor of Science and Master of Science were awarded. 41 graduands are from Biological Sciences, 43 from Chemistry, 24 from Earth and Environmental Sciences, 10 from Mathematics, and 51 from Physics.



Graduates 2020

Bachelor of Science

Chemistry

Abhinandan Gupta

Mathematics

Muttareddygari Sreechakra

Physics

Karanam Karthik

3 Bachelor of Science were awarded to student of BS-MS (Dual Degree) programme. 1 graduand is from Chemistry, 1 from Mathematics and 1 from Physics.

