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Doctoral Class Year Book 2023

12th August 2023



INDIAN INSTITUTE OF TECHNOLOGY DELHI

Vision

To contribute to India and the World through excellence in scientific and technical education and research; to serve as a valuable resource for industry and society; and remain a source of pride for all Indians.

Mission

To generate new knowledge by engaging in cutting-edge research and to promote academic growth by offering state-of-the-art undergraduate, postgraduate and doctoral programmes.

To identify, based on an informed perception of Indian, regional and global needs, areas of specialization upon which the Institute can concentrate.

To undertake collaborative projects which offer opportunities for long-term interaction with academia and industry.

To develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

Values

- ☐ Academic integrity and accountability.
- ☐ Respect and tolerance for the views of every individual.
- ☐ Attention to issues of national relevance as well as of global concern.
- ☐ Breadth of understanding, including knowledge of the human sciences.
- ☐ Appreciation of intellectual excellence and creativity.
- ☐ An unfettered spirit of exploration, rationality and enterprise.

Doctoral Class Year Book 2023

Research is a significant part of the academic activities at IIT Delhi. This, in turn, is built around the individual work conducted by our doctoral candidates under the supervision of faculty mentors. Consequently, our Ph.D. programme holds pride of place. In this Convocation, the 54th, more than three hundred and fifty students will be earning their Ph.D. degrees.

We recognize the accomplishment of our doctoral candidates, who as early stage researchers, make key contribution to the creation of new knowledge. Doctoral work requires a tremendous amount of dedication, sacrifice and extraordinary perseverance in the face of setbacks that happen along the way. It is also not out of place to point out that a significant part of the work which went into the thesis submitted by many of these graduating students for the fulfilment of the award of the degree happened during the pandemic. We feel immense pride and recognition for this achievement.

This booklet is the Institute community's way of expressing our thanks to graduating doctoral students for their hard work, and dedication to academic excellence. It also serves as an abridged guide to the variety and diversity of research conducted at the Institute.

Narayanan D. Kurur

Dean, Academics

54th Convocation

12 August 2023



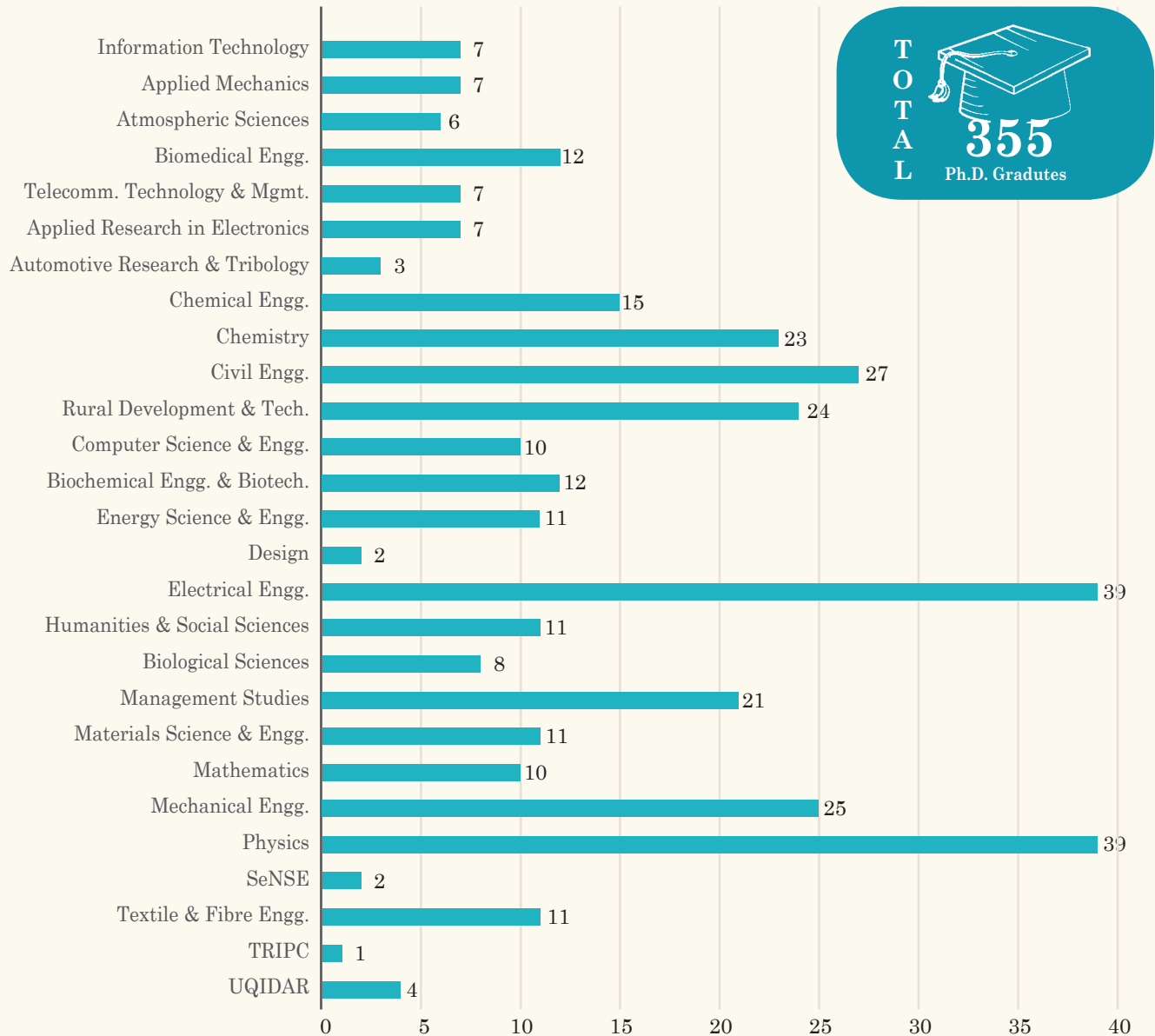
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Ph.D. GRADUATES







Anoop Kumar Pandouria

(2016AMZ8342)

✉ a.pandouria@gmail.com

Supervisor(s): Prof. Vikrant Tiwari

Broad sub-field of Research: Mechanical Characterization under high strain rates, Static and Dynamic Fracture, Experimental Techniques, Ballistic Impact, and FE simulation

Thesis: Experimental and Numerical Investigations On Mechanical Response of Aluminum AA2014-T6 Under Extreme Loading & Temperature Conditions



Hemant Kumar Sharma

(2015AMZ8218)

✉ N/A

Supervisor(s): Prof. Rajesh Prasad and Prof. Rajesh Kumar Sharma

Broad sub-field of Research: N/A

Thesis: Nanoindentation Studies of HgCdTe Epitaxial Films and CdZnTe Single Crystal Substrates



Purnashis Chakraborty

(2015AMZ8219)

✉ tubail10@gmail.com

Supervisor(s): Prof. M.K. Singha and Prof. Vikrant Tiwari

Broad sub-field of Research: Dynamic Behaviour of Material, Dynamic Fracture Response, Impact Mechanics, and Digital Image Correlation

Thesis: Deformation and Fracture Behaviour of Advanced Aluminium Alloy AA7475-T7351 Under Extreme Thermo-Mechanical Loading



Yadwinder Singh Joshan

(2017AMZ8125)

✉ yadwinder Singh Joshan@gmail.com

Supervisor(s): Prof. Sushma Santapuri

Broad sub-field of Research: Smart Material and Structures, Computational Mechanics, Non-linear Elasticity, Piezoelectric Materials, Flexoelectric Materials, Electroactive Polymers, Finite Element Method

Thesis: Two-Dimensional Modeling and Analysis of Thin Electroelastic Structures with Application to Actuator and Sensor Device Design



Agraj Upadhyay

(2015AMZ8215)

✉ N/A

Supervisor(s): Prof. Puneet Mahajan and Prof. Rajneesh Sharma

Broad sub-field of Research: xxxxxxxx

Thesis: Fracture Propagation In Weak Snow Layers and Failure of Overlying Snow Slab



Sriram K

(2015AMZ8220)

✉ pksriram89@gmail.com

Supervisor(s): Prof. Suhail Ahmad, Prof. Puneet Mahajan, and Prof. Naresh Bhatnagar

Broad sub-field of Research: Solid Mechanics; Biomechanics; Cellular Structures; FEM; Experimental Mechanics

Thesis: Strain Measurements in Porous Materials Under Compressive Loads Using Digital Volume Correlation and Micro Finite Element Modeling

**Ankita Gupta**

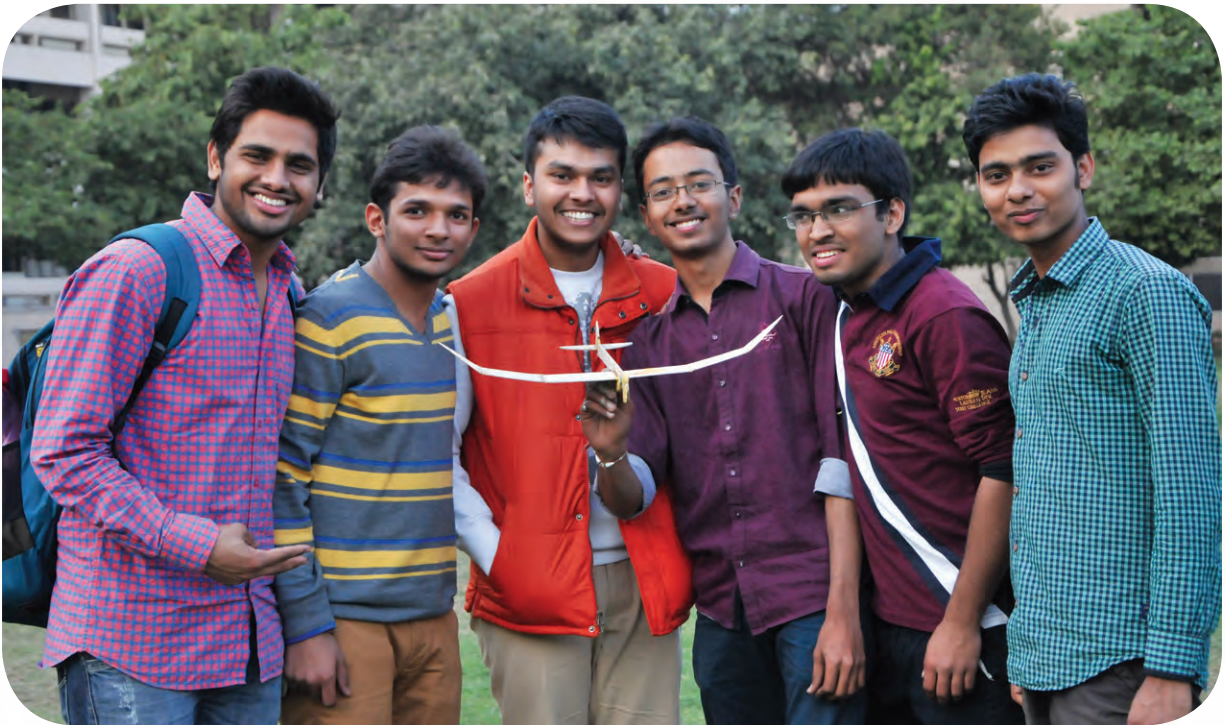
(2017AMZ8118)

✉ N/A

Supervisor(s): Prof. S. Pradyumna

Broad sub-field of Research: N/A

Thesis: Nonlinear Analysis of Variable Stiffness Composite and Auxetic Honeycomb Sandwich Panels





Arti Tyagi

(2017BEZ8290)

✉ tyagiarti22@gmail.com

Supervisor(s): Prof. Ravikrishnan Elangovan

Broad sub-field of Research: Medical devices, point-of-care diagnostics, applied optics, fluorescence microscopy, super resolution microscopy

Thesis: Total Internal Reflection Fluorescence and Scattering Imaging For Biological Applications



Deepak Sharma

(2016BEZ8559)

✉ deepak30821@gmail.com

Supervisor(s): Prof. Shaikh Ziauddin Ahammad and Prof. T. R. Sreekrishnan

Broad sub-field of Research: Mathematical Modeling and Simulation

Title: Mathematical Modeling of the Modified Trickling Filter



Vora Dhvani Sandip

(2017BEZ8293)

✉ dhvani.s.vora@gmail.com

Supervisor(s): Prof. D. Sundar

Broad sub-field of Research: Machine Learning; CRISPR/Cas9; Bioinformatics

Thesis: Mechanistic Insights Into Rna-Guided Genome Editing Nucleases



Navaneethan. R

(2017BEZ8438)

✉ N/A

Supervisor(s): Prof. Prof. D. Sundar

Broad sub-field of Research: N/A

Thesis: Mechanistic Insights into Bioactivity and Permeability of Natural Compounds for Selective Targeting of Cancer



Shefali Singh

(2016BEZ8558)

✉ shefali041@gmail.com

Supervisor(s): Prof. Ravikrishnan E

Broad sub-field of Research: Liquid Biopsy, Diagnostics, Nanoparticles, Cancer Biology, Genomics

Thesis Title: Development of Liquid Biopsy Methods for Lung Cancer Detection



Lovely

(2014BEZ8002)

✉ lovelyrajput811@gmail.com

Supervisor(s): Prof. A.K. Srivastava and Prof. T.R. Sreekrishnan

Broad sub-field of Research: Bioprocess technology, Scale up, Downstream processing

Thesis: Mass Production of Biodegradable Copolymers from Renewable Resources



Anika Goyal

(2017BEZ8288)

✉ anikagoyal1216@gmail.com

Supervisor(s): Prof. A K Srivastava and Prof. T.R. Sreekrishnan

Broad sub-field of Research: Biochemical Engineering; Biodegradable Plastic; Gaseous Fermentation

Thesis: Strategies For Production of Biopolymers Using Gaseous Substrates (Methane & Air)



Yogesh Kalakoti

(2018BEZ7512)

✉ ykalakoti@gmail.com

Supervisor(s): Prof. D. Sundar

Broad sub-field of Research: Drug discovery; Machine Learning; Computational Biology; Functional Genomics; Structural Biology

Title: Leveraging Representation Learning for Drug Discovery



Aakanksha Ahlawat

(2017BEZ8292)

✉ aakanksha0822@gmail.com

Supervisor(s): Prof. R. Elangovan and Prof. S. Mishra

Broad sub-field of Research: Molecular biology, Transcriptome analysis, Whole genome analysis, Bioremediation

Thesis: Laccase and Manganese Peroxidase Diversity in Cyathus Bulleri and Mechanisms Employed Towards Dye Degradation/Adaptation



Vipul Kumar

(2018BEZ7509)

✉ vipul2732@gmail.com

Supervisor(s): Prof. D. Sundar

Broad sub-field of Research: Molecular Modelling, Computer Aided Drug Discovery, Biomolecular Simulations, Structure Predictions

Thesis: Molecular Insights and Therapeutic Potential of Natural Compounds



Jyoti Sharma

(2015BEZ8503)

✉ jyotisharma18sept@gmail.com

Supervisor(s): Prof. Preeti Srivastava and Prof. D. Sundar

Broad sub-field of Research: Environmental bioremediation; Biosurfactants; Molecular biology; Biotechnology

Thesis Title: Molecular Characterization of a Biosurfactant from Franconibacter Sp. and Its Application in Oil Recovery



Arun Thapa

(2015BEZ8357)

✉ N/A

Supervisor(s): Prof. Ashish Misra

Broad sub-field of Research: N/A

Thesis: Metabolic Engineering of Zymomonas Mobilis for Lactic Acid Production and Xylose Utilization

**Ramdayal Panda**

(2017CHZ8267)

✉ ramdayalpanda7@gmail.com

Supervisor(s): Prof. K.K. Pant, Prof. S.N. Naik, and Prof. T. Bhaskar**Broad sub-field of Research:** E-waste recycling; Lithium battery recycling, Solid waste management**Thesis:** Recovery of Metals from Waste Printed Circuit Boards Using Low-Temperature Ammonium Chloride Roasting**Shalini Shikha**

(2015CHZ8432)

✉ shalinishikha13@gmail.com

Supervisor(s): Prof. Sudip Kumar Pattanayek**Broad sub-field of Research:** Sensors, Polymers, Nanomaterials**Thesis:** Detection of Organophosphates Using Silver Nanoparticles and Molecularly Imprinted Polymer (MIP)**Sachin Tomar**

(2017CHZ8634)

✉ s.tomar161@gmail.com

Supervisor(s): Prof. Sreedevi U.**Broad sub-field of Research:** Heterogeneous Catalysis, Hydrogen Production, Kinetic Studies**Thesis:** Decomposition of Sulfur Trioxide Over Mixed Metal Oxide Catalysts in The Sulfur-Iodine Cycle for Hydrogen Production**Mankar Akshay Raju**

(2016CHZ8517)

✉ akshaymankar79@gmail.com

Supervisor(s): Prof. K.K. Pant**Broad sub-field of Research:** Biomass Conversion; Catalysis; Renewable Energy**Thesis:** Catalytic Valorization of Lignocellulosic Biomass for the Production of Valuable Chemicals**Biswajit Samir De**

(2017CHZ8271)

✉ N/A

Supervisor(s): Prof. S. Basu and Prof. Neeraj Khare**Broad sub-field of Research:** N/A**Thesis:** Microfabrication and Performance Evaluation of Microfluidic Membraneless Energy Conversion Devices for Hydrogen Generation and Utilization**Mohit Tiwari**

(2016CHZ8289)

✉ mohittiwari791@gmail.com

Supervisor(s): Prof. Sudip Kumar Pattanayek**Broad sub-field of Research:** Surface Enhanced Raman Scattering; Sensor Development; Semiconductor Photocatalyst**Thesis:** Development of Novel Nanostructures and Nanocomposites for Melamine Detection



Komal Tripathi

(2017CHZ8258)

✉ kmltripathi6@gmail.com

Supervisor(s): Prof. K.K. Pant and Prof. Sreedevi U.

Broad sub-field of Research: Energy Transition; CO₂ Conversion; Catalysis

Thesis: Modulating Active Sites to Decipher Primary Carbon Source for Methanol and Dimethyl Ether Synthesis From Coal/Biomass Derived CO₂ Rich Syngas Via Tandem Catalysis



Prateek Ranjan Yadav

(2017CHZ8278)

✉ prtk.ydv786@gmail.com

Supervisor(s): Prof. Sudip K. Pattanayek and Prof. Diganta Bhusan Das

Broad sub-field of Research: Transdermal drug delivery, modelling and simulation, finite element analysis

Thesis: Modelling Polymeric Microneedle Based Transdermal Drug Delivery Systems



Prashant Udaysinh Parihar

(2013CHZ8447)

✉ pariharprashant@bharatpetroleum.com

Supervisor(s): Prof. Vivek V. Buwa and Prof. Ravi Kumar Voolapalli

Broad sub-field of Research: Reactor Internals; Hydrodynamics; Reactor Modeling

Thesis: Hydrodynamics of Three Phase Radial Flow Reactor: Experiments and Reactor Model for Hydroprocessing



Syed Haider Abbas Rizvi

(2015CHZ8431)

✉ haider@solarad.ai

Supervisor(s): Prof. Vikram Singh and Prof. Jyoti Phirani

Broad sub-field of Research: Colloids and Aerosols; Solar Energy Forecasting; Energy Policy

Thesis: Removal of Colloidal Asphaltene From Surfaces and Effect of Aerosols on Solar Power



Ram Ji Dixit

(2017CHZ8250)

✉ ramjidxit01@gmail.com

Supervisor(s): Prof. Suddhasatwa Basu, Prof. Anupam Shukla and Prof. Vijay K. Ramani

Broad sub-field of Research: Material synthesis, Biomass conversion, Green hydrogen generation, Electrochemistry

Thesis: Development of Catalyst and Reactor for Electrochemical Conversion of Biomass-Derived Furfural Into Value-Added Chemicals



Tanuja Joshi

(2018CHZ8100)

✉ tanujatj1993@gmail.com

Supervisor(s): Prof. Hariprasad Kodamana

Broad sub-field of Research: Reinforcement Learning; Process Control; Data-driven model; Data-driven control

Thesis: Data Driven Dynamic Modeling and Reinforcement Learning Based Control of Batch Processes



Rajan Singh

(2017CHZ8257)

✉ rajanaith@gmail.com

Supervisor(s): Prof. K.K. Pant and Prof. J.K. Parikh

Broad sub-field of Research: Heterogeneous Catalysis, CO₂ conversion, Reaction Kinetics and reactor design, optimization

Thesis: Elucidating The Role of Metal Oxide Interactions and Oxygen Vacancy Defects In Tuning The Methanol and DME Selectivity During CO₂ Hydrogenation



Sony

(2016CHZ8573)

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Supervisor(s): Prof. Ashok N. Bhaskarwar

Broad sub-field of Research: Heterogeneous catalysis; Hydrogen production; Catalyst synthesis and characterization

Thesis: Studies on Catalytic Decomposition of Hydrogen Iodine in Sulphur Iodine Cycle for Hydrogen Production



Sunita

(2014CHZ8179)

✉ chem.mbm@gmail.com

Supervisor(s): Prof. Jayati Sarkar

Broad sub-field of research: Instabilities In Homogeneous and Non-Homogeneous Thin -Film, Computational Fluid Dynamics, Interfacial Science. Matlab, Mathematica, C/C++, Abaqus And Fluent Software, Finite Difference and Finite Element Method

Thesis Title: Surface Instabilities in Non-Linear Soft Thin Films





Harshita Rastogi

(2016CYZ8405)

✉ N/A

Supervisor(s): Prof. Pramit K. Chowdhury

Broad sub-field of Research: N/A

Thesis: Biophysical Investigations of Adenylate Kinase (AK3L1) in The Crowded Milieu-Correlating Activity, Conformation, Structure and Dynamics



Kaushal Kishor Yadav

(2016CYZ8254)

✉ N/A

Supervisor(s): Prof. Jai Deo Singh

Broad sub-field of Research: N/A

Title: Studies on Reactivity and Structural Aspect of Uranyl (VI) Ion With O, N And S/Se Heteroatom Substituted Organic Derivatives



Rajashree Newar

(2017CYZ8112)

✉ rohitkhandelwal004@gmail.com

Supervisor(s): Prof. Kuntal Manna

Broad sub-field of Research: Metal Organic Framework, Catalysis, Inorganic Chemistry, Asymmetric Catalysis

Thesis: Metal-Organic Frameworks Supported Single-Site Base-Metal Catalysts for Organic Transformations



Manisha Jadon

(2016CYZ8409)

✉ manishajadon0730@gmail.com

Supervisor(s): Prof. A. Ramanan and Prof. Tapan Bera

Broad sub-field of Research: Metal-organic frameworks, Crystallization, Single crystal analysis, Database analysis, topology, hydrogen storage

Thesis: Crystal Engineering of Azolate-Based Frameworks: Synthesis and Structural Chemistry



Neha Antil

(2018CYZ8204)

✉ nantil17@icloud.com

Supervisor(s): Prof. Kuntal Manna

Broad sub-field of Research: Organic Synthesis, Catalysis, Analytical Chemistry

Thesis: Development of Single-Site Metal-Organic Framework-Catalysts for Sustainable Organic Transformations



Preeti Mishra

(2017CYZ8107)

✉ N/A

Supervisor(s): Prof. Jai Deo Singh

Broad sub-field of Research: N/A

Thesis: Functional Activity of Uranyl (UO_2^{2+}) Ion In Response To Biologically Relevant Heteroatomic Organic Donor Substrates



Syeda Warisul Fatima

(2016CYZ8243)

✉ warisul_fatima@rediffmail.com

Supervisor(s): Prof. Sunil Kumar Khare

Broad sub-field of Research: Microbial Biochemistry; Cancer Biology; Molecular Biology

Thesis: Studies On Streptomyces Mobaraensis Transglutaminase For Biotechnological Applications



Varsha Panwar

(2017CYZ8489)

✉ N/A

Supervisor(s): Prof. Tanmay Dutta

Broad sub-field of Research: N/A

Title: Delving Into A Novel Extremophilic Bacterial Laccase: Purification, Characterization, and Its Applications In Sustainable Industrial Processing



Sonam Kumari

(2016CYZ8407)

✉ sonam.singh2060@gmail.com

Supervisor(s): Prof. Shashank Deep

Broad sub-field of Research: Proteins expression and purification; Protein-Protein interaction and Protein-DNA interaction; Mycobacterium tuberculosis proteins; spectroscopy; co-expression of molecular chaperones assisted protein folding, enzymology, transcription factors

Thesis: Expression, Purification, and Functional Characterization of WhiB Proteins of Mycobacterium Tuberculosis



Upanshu Gangwar

(2017CYZ8110)

✉ N/A

Supervisor(s): Prof. Narayanan D. Kurur

Broad sub-field of Research: N/A

Thesis: Extending The Applications of Long-Lived States and Long-Lived Coherences In Liquid State NMR



Vaishali Khokhar

(2018CYZ8217)

✉ N/A

Supervisor(s): Prof. Siddharth Pandey

Broad sub-field of Research: N/A

Thesis: Prototropism and Aggregation Within Deep Eutectic Solvents



Amjad Ali

(2015CYZ8049)

✉ ali05.imagine@gmail.com

Supervisor(s): Prof. Ravi P. Singh

Broad sub-field of Research: Enantioselective reactions; Homologation reactions involving 1, 2-aryl migration and 1, 2-carbonyl migration

Thesis: Stereoselective 1,4- and 1,6-Addition to Quinone Methides



Ritu

(2017CYZ8102)

✉ ritu873@gmail.com

Supervisor(s): Prof. Nidhi Jain

Broad sub-field of Research: Organic Synthetic Chemistry; Photocatalysis; Synthesis of redox-active organic molecules and their application in photocatalysis

Thesis: Light-Induced Organic Transformations Using Homogeneous Photocatalysis



Hanuman Singh

(2017CYZ8493)

✉ N/A

Supervisor(s): Prof. V. Haridas

Broad sub-field of Research: N/A

Title: Protein Engineering: Design, Synthesis and Functional Properties of Peptidomimetic Foldamers



Shahenvaz Alam

(2016CYZ8401)

✉ shahenvazalam@gmail.com

Supervisor(s): Prof. Sunil Kumar Khare

Broad sub-field of Research: Biochemistry; Enzymology; Nanotechnology; Biosensor; Molecular Biology

Thesis: Studies on Microbial L-Asparaginases and Amidases and Their Applications In Food Industry



Shailabh Tewari

(2018CYZ8215)

✉ N/A

Supervisor(s): Prof. Anunachalam Ramanan

Broad sub-field of Research: N/A

Thesis: Crystal Engineering of Lanthanide Based Polyoxomolybdates: The Taxonomy of Exploring a Structural Landscape



Priyanka Yadav

(2018CYZ8210)

✉ drpinkayadav@gmail.com

Supervisor(s): Prof. A.K. Ganguli

Broad sub-field of Research: Optoelectronics, 2D materials, Electrochemistry

Thesis Title: Synthesis of Quasi Two-Dimensional Transition Metal Dichalcogenides (2D TMDs) for Efficient Photo-Electrochemical and Photodetector Applications



Priyanka Chauhan

(2017CYZ8492)

✉ pchauhan661@gmail.com

Supervisor(s): Prof. Ravi Shankar

Broad sub-field of Research: Synthesis of coordination polymers; Catalysis; In-vitro bioactivity; X-ray crystallography

Thesis: Synthesis, Characterization and Reactivity Studies of Organotin Alkanesulfonates



Namra Siddiqui

(2018CYZ8203)

✉ N/A

Supervisor(s): Prof. Tanmay Dutta

Broad sub-field of Research: N/A

Thesis: RyjB, A Novel Riboregulator in Escherichia Coli: Regulation of its Expression and Mechanism of Its Action



Shilpa Sharma

(2017CYZ8099)

✉ N/A

Supervisor(s): Prof. Shashank Deep

Broad sub-field of Research: N/A

Thesis: Insights Into The Mechanism of Aggregation of Superoxide Dismutase 1 (SOD1) and its Mutants in the Absence and Presence of Small Molecules



Moumita Bera

(2017CYZ8488)

✉ mou.chemistry@gmail.com

Supervisor(s): Prof. Sayantan Paria

Broad sub-field of Research: Homogeneous Electrocatalyst, Water Oxidation, Copper and Cobalt Complexes, Oxygen Evolution, Non-Innocent Ligand, Inorganic Spectroscopy

Thesis Title: Electrocatalytic Water Oxidation Activity by Molecular Copper and Cobalt Complexes And Mechanistic Investigations



Ajeet Singh

(2017CYZ8105)

✉ N/A

Supervisor(s): Prof. Sameer Sapra

Broad sub-field of Research: N/A

Thesis: Colloidally Synthesized Heterostructures Based On 2D Layered Semiconductors



Kirandeep

(2018CYZ8376)

✉ N/A

Supervisor(s): Prof. A.K. Ganguli

Broad sub-field of Research: N/A

Title: Microemulsion Based Synthesis of Ternary/Quaternary Lanthanum Oxide-Based Nanomaterials and to Study Their Electrochemical, Magnetic, and Related Properties



Padala Suresh Kumar

(2017CEZ8082)

✉ N/A

Supervisor(s): Prof. Bishwajit Bhattacharjee and Prof. Shashank Bishnoi

Broad sub-field of Research: N/A

Thesis: Concrete in Marine Tidal Environment-Modelling for Service Life Prediction with Respect to Chloride Ingress



Ghanshyam Agrawal

(2014CEZ8365)

✉ gsagrawal76@gmail.com

Supervisor(s): Prof. A.K. Gosain and Prof. B.R. Chahar

Broad sub-field of Research: Hydrological Modelling, Watershed Management, Irrigation & Drainage Engineering

Title: Hydrological Modelling Using Apex Model for an Experimental Agricultural Watershed in Upper Yamuna Basin



Abhishek Narayana Srivastava

(2017CEZ8533)

✉ abhisheksrivastava01@gmail.com

Supervisor(s): Prof. Sumedha Chakma

Broad sub-field of Research: Waste to Energy, Landfill Degradation, Bioprocessing of Solid Waste

Thesis: Enhancement of Biodegradation and Biogas Generation From Municipal Solid Waste Co-Disposed with Industrial Organic Wastes in Bioreactor Landfills



Himanshu Pratap Singh

(2015CEZ8363)

✉ sngh.hp7@gmail.com

Supervisor(s): Prof. Deo Raj Kaushal

Broad sub-field of Research: Slurry pipeline transportation, Particle diffusivity in solid liquid slurry, and Rheology

Thesis: Experimental Investigation of Rheological Characteristics of Coking Coal Slurry and Numerical Analysis of Diffusivity In Solid Liquid Slurry



Shushobhit Chaudhary

(2015CEZ8026)

✉ N/A

Supervisor(s): Prof. Dhanya C.T.

Broad sub-field of Research: N/A

Thesis: Improving the Potential of Satellite-Based Precipitation Estimates for Hydrological Applications



Pranjal Mandhaniya

(2017CEZ8081)

✉ pranjalmandhaniya@gmail.com

Supervisor(s): Prof. J.T. Shahu and Prof. Sarvesh Chandra

Broad sub-field of Research: Geotechnical Engineering; Finite Element Simulations; Data analysis

Thesis: Finite Element Analysis of Moving Load on Ballasted and Ballastless Rail Tracks



Moulshree Tripathi

(2015CEZ8365)

✉ t.moulshree@gmail.com

Supervisor(s): Prof. B.R. Chahar, Prof. P. Dietrich, and Prof. P.K. Yadav

Broad sub-field of Research: Groundwater Surface water interaction; Numerical modelling; Groundwater modelling; Hydrology

Thesis: Mathematical Approaches Signifying The Streambed and Aquifer Properties In A Combined Gw-Sw System



Kavita Pradiprao Ganorkar

(2016CEZ8430)

✉ N/A

Supervisor(s): Prof. Tanusree Chakraborty and Prof. Manmohan Dass Goel

Broad sub-field of Research: N/A

Title: High Strain Rate Characterisation of Fiber Reinforced Concrete and Its Application In Blast Resistance Design



Ansari Abdullah Momin Mohammed Ameen

(2018CEZ8391)

✉ aamomin183@gmail.com

Supervisor(s): Prof. K.S. Rao, Prof. A.K. Jain and Prof. D. Shirole

Broad sub-field of Research: Geotechnical Earthquake Engineering, Natural Disasters, Transportation Infrastructure, Machine Learning, Landslide, Tsunami, Risk Assessment

Thesis: Seismic Hazard Evaluation of Jammu Region and Risk Assessment of Tunnels in the Himalayas



Falak Zahoor

(2015CEZ8487)

✉ falak.zahoor@iitdalumni.com

Supervisor(s): Prof. K.S. Rao and Prof. Neelima Satyam

Broad sub-field of Research: Earthquake Geotechnical Engineering; Foundations; Soil mechanics

Thesis: Seismic Hazard and Geotechnical Vulnerability Assessment of the Soils in the Kashmir Region, Jammu and Kashmir



Ravinder

(2017CEZ7518)

✉ N/A

Supervisor(s): Prof. N.M. Anoop Krishnan

Broad sub-field of Research: N/A

Thesis Title: Data-Driven Modeling and Physics-Informed Machine Learning For Glass Discovery



Shahane Shraddha Pravin

(2018CEZ8040)

✉ shraddha2013.ss@gmail.com

Supervisor(s): Prof. Arun Kumar

Broad sub-field of Research: Nanoagrochemicals Synthesis, Risk Assessment

Thesis: Understanding the Interaction of Nanoagrochemicals With Leafy Vegetables and Soil



Nivea Thomas

(2017CEZ8074)

✉ nivearthomas@gmail.com

Supervisor(s): Prof. K.N. Jha

Broad sub-field of Research: Infrastructure Management; Air Transport Management; Regional Aviation

Thesis: A Sustenance and Growth Model for Regional Airports in India



Venkatesh Madhukar Deshpande

(2017CEZ8071)

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Supervisor(s): Prof. Tanusree Chakraborty

Broad sub-field of Research: Rock mechanics, high strain rate testing, material characterization, geotechnical engineering

Thesis: Dynamic Response of an Anisotropic Rock and Its Application to a Blast Loading Problem



Aparna Sharma

(2015CEZ8359)

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Supervisor(s): Prof. Arvind K. Nema

Broad sub-field of Research: Research: Optimization Techniques, Battery Waste Management, Leaching Studies, Leachate Management

Thesis: Multi-Criteria Assessment of Alternative Leaching Procedures-A Case of Spent Li-Ion Battery Waste



Om Prakash Tripathi

(2017CEZ8536)

✉ N/A

Supervisor(s): Prof. K.N. Jha and Prof. A.K. Jain

Broad sub-field of Research: N/A

Thesis: Project Management Issues In Mega Construction Projects



Apoorva Agarwal

(2017CEZ8072)

✉ apoorvaagarwal6@gmail.com

Supervisor(s): Prof. Manoj Datta, Prof. G.V. Ramana, and Prof. N.K. Soni

Broad sub-field of Research: Waste Management; Geosynthetics; Construction & Demolition Waste

Thesis: Geoenvironmental and Geotechnical Characterization of Processed and Unprocessed C&D Waste For Bulk Reuse In Geotechnical Applications



Biruk Gissila Gidday

(2018CEZ8234)

✉ biruk.gissila@aastu.edu.et

Supervisor(s): Prof. G.V. Ramana, Prof. R. Ayothiraman, and Prof. B. Janaki Ramaiah

Broad sub-field of Research: Geo-technical engineering; Landslides; Foundation Engineering

Thesis: Physical and Numerical Modeling of Rainfall Triggered Shallow Landslides in Central Highlands, Ethiopia



Jashanjeet Randhawa

(2014CEZ8039)

✉ N/A

Supervisor(s): Prof. Suresh Bhalla

Broad sub-field of Research: N/A

Thesis: Baseline Free Approach for Integrated Global Cum Local Structural Health Monitoring Using Piezo-Transducers



Maneesh N

(2015CEZ8493)

✉ N/A

Supervisor(s): Prof. Babu J. Alappat and Prof. T.R. Sreekrishnan

Broad sub-field of Research: N/A

Thesis: Biological Treatment of Wastewaters Using Inverse Fluidized Bed Reactor



Garima Gupta

(2016CEZ8139)

✉ gamma840@gmail.com

Supervisor(s): Prof. Manoj Datta, Prof. B.J. Alappat, and Prof. Shashank Bishnoi

Broad sub-field of Research: Environmental Geotechnics; Municipal Solid Waste; Incineration

Thesis: Characterization of MSW Incineration ASH from Three Plants in Delhi: Options For Disposal and Reuse and Comparison With Data From Other Countries



Archana Majhi

(2017CEZ8525)

✉ archanaarchi7@gmail.com

Supervisor(s): Prof. Dhanya C.T. and Prof. Sumedha Chakma

Broad sub-field of Research: Climate Change, Hydroclimatic extremes, Sub-daily Precipitation Extremes, Uncertainty Quantification, Water Resources, Global Climate Model (GCM) Projection-CMIP5 & CMIP6

Thesis: Quantifying and Constraining the Model Uncertainty in Future Sub-Daily Precipitation Projections



Rajesh Kumar

(2017CEZ8528)

✉ N/A

Supervisor(s): Prof. N.M. Anoop Krishnan

Broad sub-field of Research: N/A

Thesis: Effect of Irradiation on Mechanical and Structural Properties of Borosilicate Glasses



Sayantee Roy

(2017CEZ8086)

✉ sayanteeroy@gmail.com

Supervisor(s): Prof. Gazala Habib

Broad sub-field of Research: Air Pollution; Atmospheric Chemistry; Aerosol Science

Thesis: Investigation of Climate Relevant Properties of Aerosol and Contribution of Sources in Arid Region, Bikaner, India



Shayesta Wajid

(2017CEZ8083)

✉ N/A

Supervisor(s): Prof. Nezamuddin

Broad sub-field of Research: N/A

Thesis: Ambulance Location Optimization for Enhanced Coverage and Survivability in Delhi



Punyabeet Sarangi

(2017CEZ8077)

✉ punyabeet.sarangi287@gmail.com

Supervisor(s): Prof. Manoj M.

Broad sub-field of Research: Transport Planning; Choice Modelling; Traffic

Thesis: An Assessment of The Impacts of Intra-Household Interactions on Household Activity-Travel Behaviour





Ismi Abidi

(2015CSZ8373)

✉ ismiabidi@gmail.com

Supervisor(s): Prof. Rijurekha Sen

Broad sub-field of Research: Systems security; Applied Crypto; Applied ML; Scalable sensing; ClimateTech

Thesis: Privacy, Integrity and Performance of Edge Devices for Sustainability



Vinayak Gupta

(2017CSZ8063)

✉ guptavinayak51@gmail.com

Supervisor(s): Prof. Srikanta Bedathur

Broad sub-field of Research: Artificial Intelligence and Machine Learning

Thesis: Modeling Time-Series and Spatial Data for Recommendations and Other Applications



Lokesh Siddhu

(2014CSZ8382)

✉ siddhulokesh@gmail.com

Supervisor(s): Prof. P.R. Panda

Broad sub-field of Research: Thermal Management, Memory Technologies, Computer Architecture

Thesis: Leakage Aware Dynamic Thermal Management For 3d Memory Architectures



Dishant Goyal

(2017CSZ8060)

✉ dishant.in@gmail.com

Supervisor(s): Prof. Ragesh Jaiswal and Prof. Amit Kumar

Broad sub-field of Research: Data Structures; Algorithms; Clustering; Machine Learning

Thesis: FPT Approximations for Constrained Clustering Problems



Yashoteja Prabhu

(2021CSZ8462)

✉ yprabhu@microsoft.com

Supervisor(s): Prof. Manik Varma and Prof. Amit Kumar

Broad sub-field of Research: Machine Learning; Recommender Systems, Information Retrieval

Thesis: Efficient and Accurate Algorithms for Extreme Classification



Shubhankar Suman Singh

(2016CSZ8113)

✉ shubhankar039@gmail.com

Supervisor(s): Prof. Smruti R. Sarangi

Broad sub-field of Research: High Performance Computing, Operating Systems, Machine Learning, Performance Estimation, Comparative Analysis Techniques

Thesis: A Comparative Approach for Understanding, Analyzing, and Predicting the Behavior of Instruction Set Architectures and Operating Systems



Samuel Wedaj Kibret

(2014CSZ8390)

✉ samuel_wed@yahoo.com

Supervisor(s): Prof. Kolin Paul and Prof. Vinay Joseph Ribeiro

Broad sub-field of Research: IoT/Cyber-Physical Systems Security, Distributed and Networked Systems, Embedded Systems

Thesis: Decentralized Mechanisms to Attest, Recover and Update IoT Networks



Kolluru Sai Keshav

(2017CSZ8058)

✉ N/A

Supervisor(s): Prof. Mausam and Prof. Soumen Chakrabarti

Broad sub-field of Research: xxxxx

Thesis: Neural Methods For Monolingual and Multilingual Open Information Extraction



Ovia Seshadri

(2015CSZ8045)

✉ oviaseshadri@gmail.com

Supervisor(s): Prof. Subodh V. Sharma and Prof. Vinay J. Ribeiro

Broad sub-field of Research: Blockchain, cryptography, web3

Thesis: Securely Improving Performance in Pow Blockchains Using Links and Anchors



Sanjana Singh

(2016CSZ8122)

✉ sanjana.singh2906@gmail.com

Supervisor(s): Prof. Subodh Sharma

Broad sub-field of Research: Concurrency, Program Analysis, Weak Memory Models

Thesis: Program Analysis Under Relaxed Memory Concurrency



**Abhishek Dahiya**

(2015DDZ6003)

✉ N/A

Supervisor(s): Prof. Jyoti Kumar

Broad sub-field of Research: N/A

Thesis: Designing For The Other: How User Persona Affects Design Thinking

**Surbhi Pratap**

(2016DDZ8479)

✉ N/A

Supervisor(s): Prof. Jyoti Kumar

Broad sub-field of Research: N/A

Thesis: Integrating Culture in User Experience Design in The Indian Context





Subir Karmakar

(2017EEZ8571)

✉ subir.iitd@gmail.com

Supervisor(s): Prof. Bhim Singh

Broad sub-field of Research: High Power Converter, Solar Photovoltaic, Battery Energy Storage

Thesis: Design and Control of High-Power Grid Interfaced Solar PV System with BES



Indrani Bhattacharjee

(2013EEZ8525)

✉ titlus007@gmail.com

Supervisor(s): Prof. B.K. Panigrahi

Broad sub-field of Research: Machine Learning, Bio-Signal Processing, Digital Image Processing

Thesis: Epileptic Seizure Prediction and Detection Using Machine Learning Techniques



Farheen Chishti

(2016EEZ8058)

✉ chishti2210@gmail.com

Supervisor(s): Prof. Bhim Singh

Broad sub-field of Research: Microgrids, renewable power generation, battery management, Power electronics

Thesis: Design and Control of PV-Wind Energy Based Microgrids with Islanding and Resynchronization



Shatakshi

(2014EEZ8314)

✉ shatakshi.b4u@gmail.com

Supervisor(s): Prof. Bhim Singh and Prof. Sukumar Mishra

Broad sub-field of Research: Renewable, Microgrid

Thesis: Control and Implementation of Solar PV-DG Based Microgrids in Grid-Connected and Islanded Modes



Vaibhav Nougain

(2018EEZ7534)

✉ nougainvaibhav@gmail.com

Supervisor(s): Prof. Sukumar Mishra

Broad sub-field of Research: Protection and Control of DC systems, Resilient Protection of distribution systems

Thesis: Identification & Location of Faults in DC Microgrids



Vivek Chaudhary

(2018EEZ8153)

✉ chaudhary03vivek@gmail.com

Supervisor(s): Prof. Harshan Jagadeesh

Broad sub-field of Research: Physical Layer Security; Wireless Communication; Cognitive Radios

Thesis: Fast-Forward Full-Duplex Strategies to Mitigate Reactive Jamming Attacks on Low-Latency Communication



Divya Kaushik

(2017EEZ8170)

✉ div.04kaushik@gmail.com

Supervisor(s): Prof. Debanjan Bhowmik

Broad sub-field of Research: Machine learning, Artificial intelligence, Neuromorphic Computing

Thesis: On-Chip Learning In a Spintronics-Based Hardware Neural Network: A Device-Circuit-System Co-Study



Sandeep Kaur Kingra

(2016EEZ8070)

✉ sandykingra@gmail.com

Supervisor(s): Prof. Manan Suri

Broad sub-field of Research: Non-volatile memory, In-memory computing, Device characterization and fabrication

Thesis: Exploring Computing Applications With Non-Volatile Memory



Kamal Agrawal

(2017EEZ8197)

✉ agrawalkamal37@gmail.com

Supervisor(s): Prof. Shankar Prakriya

Broad sub-field of Research: Internet-of-Things, Wireless Energy Harvesting, Cooperative Communication, Underwater Wireless Optical Communication, Aerial Communication

Thesis: Performance of Spectrally Efficient Signalling Techniques in Networks with Battery-Assisted Energy Harvesting Nodes



Khammammetti Venkatesh

(2017EEZ8173)

✉ venkatesh.khammammetti@gmail.com

Supervisor(s): Prof. Saif Khan Mohammed

Broad sub-field of Research: Wireless Communications, Orthogonal Time Frequency Space Modulation, Digital Communications

Thesis: OTFS Based Orthogonal Multiple Access in High Delay and Doppler Wireless Channels



Vandana Jain

(2015EEZ8114)

✉ vandanadcrust@gmail.com

Supervisor(s): Prof. Bhim Singh

Broad sub-field of Research: Renewables, Solar, EV Charging

Thesis: Design and Implementation of Solar PV Grid Interfaced Systems and Applications to EV Charging



Prashant Gupta

(2015EEZ2691)

✉ prashant10991@gmail.com

Supervisor(s): Prof. Jayadeva, Prof. Debarka Sengupta, and Prof. Vibhor Kumar

Broad sub-field of Research: Machine Learning, Deep Learning, Bioinformatics, Computational Biology

Thesis: Learning On Large Datasets Using Bit-String Trees



Milton Mondal

(2016EEZ8498)

✉ miltonkumarmondal@gmail.com

Supervisor(s): Prof. Shiv Dutt Joshi, Prof. Brejesh Lall and Prof. Pushpendra Singh

Broad sub-field of Research: Deep Learning, Computer Vision, Biomedical Signal Processing

Thesis: Filter Pruning for Compact and Efficient Convolutional Neural Networks



Nitika Batra

(2014EEZ8307)

✉ nitikabatra73@gmail.com

Supervisor(s): Prof. Bhaskar Mitra

Broad sub-field of Research: MEMS Scale fabrication; Energy Harvesting; Piezoelectric Materials; COMSOL Multiphysics

Thesis: Wideband Lead-Free Piezoelectric Mems Energy Harvesting Devices



Rajasree Sarkar

(2016EEZ8485)

✉ rajasree.sarkar11@gmail.com

Supervisor(s): Prof. Deepak Umakant Patil and Prof. Indra Narayan Kar

Broad sub-field of Research: Optimal Control; Guidance and Navigation; Multi-agent Systems

Thesis: On Time-L1 Optimal Control of Linear Systems



Midhun T Augustine

(2017EEZ8175)

✉ midhunta30@gmail.com

Supervisor(s): Prof. Deepak U Patil

Broad sub-field of Research: Model Predictive Control; Switched Linear Systems; Lyapunov stability

Thesis: On Model Predictive Control of Switched Linear and Switched Affine Systems



Mohd. Kashif

(2016EEZ8501)

✉ kashifeed123@gmail.com

Supervisor(s): Prof. Bhim Singh

Broad sub-field of Research: Permanent Magnet Synchronous Motor Drives; Sensorless controls; PV Grid Integration; Solar Water Pumping

Thesis: Design and Control of Permanent Magnet Synchronous Motor Drives for Standalone and Grid Interfaced Solar Water Pumping Systems



Aashi Jindal

(2015EEZ2675)

✉ jindal.aashi21@gmail.com

Supervisor(s): Prof. Jayadeva, Prof. Debarka Sengupta and Prof. Shyam Prabhakar

Broad sub-field of Research: Machine Learning, Deep Learning, Computer Vision, Computation Biology

Thesis: Neighborhood Density Estimation Using Space-Partitioning Based Hashing Schemes



Supriya Chakraborty

(2017EEZ8167)

✉ supriya.iitd21@gmail.com

Supervisor(s): Prof. Manan Suri

Broad sub-field of Research: Emerging Non volatile memory, Resistive memory, MRAM, Hardware security, Memristor, Reliability, flash

Thesis: Investigation of COTS NVM Technologies from a Reliability and Security Perspective



Piyush Kaul

(2015EEZ7544)

✉ piyushkaul@gmail.com

Supervisor(s): Prof. Brejesh Lall

Broad sub-field of Research: Machine Learning, Signal Processing

Thesis: Geometric Modelling and Understanding of Deep Neural Networks



Martin Cheerangal J

(2016EEZ8492)

✉ martincheera@gmail.com

Supervisor(s): Prof. Amit Kumar Jain and Prof. Anandarup Das

Broad sub-field of Research: AC motor drives; Power electronics converters; Multi-level converters

Thesis: Fault Tolerant Control Strategies of Induction Motor Drive Fed From Voltage Source Converters



Pratiti Paul

(2017EEZ8556)

✉ paulpratiti@gmail.com

Supervisor(s): Prof. Manav Bhatnagar

Broad sub-field of Research: Free space optical communications, Physical layer security, Wireless communications, Radar signal detection, Signal processing

Thesis: Jamming in Free Space Optical Systems



Anurag Prakash

(2015EEZ8275)

✉ panurag.iitd@gmail.com

Supervisor(s): Prof. Subrat Kar

Broad sub-field of Research: Graph signal processing and Geometric deep learning

Thesis: Graph Signal Processing and Geometric Deep Learning In Optical Mesh Networks



Debargha Brahma

(2017EEZ8155)

✉ debargha.brahma@gmail.com

Supervisor(s): Prof. Nilanjan Senroy

Broad sub-field of Research: Power System Dynamics and Control; Integration of Renewable Energy Sources

Thesis: Dynamic Flexibility Studies in Power Systems



Parmar Vivek Kamalkant

(2018EEZ8161)

✉ vparmar.iitd@gmail.com

Supervisor(s): Prof. Manan Suri

Broad sub-field of Research: Deep learning; In-memory computing; Emerging non-volatile memory devices

Thesis: Non-Volatile Memory-Centric Computing Advances



Pranav Sharda

(2018EEZ8140)

✉ shardapranav73@gmail.com

Supervisor(s): Prof. Manav Bhatnagar

Broad sub-field of Research: Optical Wireless Communications (OWC); Visible Light Communications (VLC); Vehicle-to-Vehicle (V2V) Communications; Free-Space Optical (FSO) Communications

Thesis: Design and Performance Investigation of OWC Systems in Indoor and Outdoor Scenarios



Jaspreet Singh

(2013EEZ2812)

✉ jassi.achiever@gmail.com

Supervisor(s): Prof. M. Jagadesh Kumar

Broad sub-field of Research: 4H-SiC, junctionless, sub-10nm MOSFet, JLFET, L-BTBT

Thesis: Design and Analysis of 4H-SiC Based Planar Junctionless FETS for Sub-10 NM Regime



Anshul Thakur

(2015EEZ8076)

✉ anshulthakur@rediffmail.com

Supervisor(s): Prof. Swades De

Broad sub-field of Research: Wireless communication; Cognitive radio; 5G

Thesis: Co-Channel Coexistence of Secondary OFDM Networks Overactive DTV Bands



Swati Bhugra

(2013EEZ8301)

✉ swati6102200ece@gmail.com

Supervisor(s): Prof. Brejesh Lall and Prof. Santanu Choudhury

Broad sub-field of Research: Computer vision; Plant Phenomics; Deep Learning

Thesis: Deep Leaf Phenotyping: Multi-Level Leaf Phenotyping Based on Novel Computer Vision Frameworks



Navneet Vaishnav

(2016EEZ8500)

✉ navneet.vaishnav1991@gmail.com

Supervisor(s): Prof. Amit Kumar Jain

Broad sub-field of Research: Power Electronics, Motor Drives, Linear Control System

Thesis: Closed Loop Control Analysis, Speed Sensorless Operation and Novel LC Filter Design Criteria for VSI FED IM Drive With Output LC Filter



Souvik Das

(2017EEZ8188)

✉ souvik.das.926@gmail.com

Supervisor(s): Prof. Bhim Singh

Broad sub-field of Research: Microgrid, Power Electronics, Renewable Energy

Thesis: Control of AC/DC Microgrids With DFIG Based Wind Energy Conversion and Solar PV Generation



Keerthi Chacko

(2016EEZ8484)

✉ keerthichacko@gmail.com

Supervisor(s): Prof. S. Janardhanan and Prof. I.N. Kar

Broad sub-field of Research: Model Predictive Control, Stochastic Optimization, Non-linear Control

Thesis: Computationally Efficient Formulations for Model Predictive Control and Their Applications



Dipta Chaudhuri

(2017EEZ8564)

✉ diptachaudhuri3012@gmail.com

Supervisor(s): Prof. Shouri Chatterjee and Prof. G. Bhuvaneswari

Broad sub-field of Research: Pulsed Power and Power Electronics

Thesis: Pulsed Power Circuit Design Techniques for Electromagnetic Launchers



Vasudha Agrawal

(2015EEZ8116)

✉ vasudhaagrawal19@gmail.com

Supervisor(s): Prof. Bhaskar Mitra

Broad sub-field of Research: MEMS actuators, microfabrication, electroplating, CAD tool

Thesis: Electroplated Bistable MEMS Actuator Using BEOL Compatible Process and Tuning of Residual Stress



Anurag Prakash

(2015EEZ8275)

✉ N/A

Supervisor(s): Prof. Subrat Kar

Broad sub-field of Research: N/A

Thesis: Graph Signal Processing and Geometric Deep Learning in Optical Mesh Networks



Shruti Ranjan

(2015EEZ8410)

✉ shrutiranjana84@gmail.com

Supervisor(s): Prof. A.R. Abhayankar

Broad sub-field of Research: Power System Optimization, Power System Operation, Planning and Analysis, System Flexibility in Renewable Energy Integrated Systems, Transmission Expansion Planning Power

Thesis: Flexibility Considerations in Planning and Operation of Power Systems



Shaziya Rasheed

(2016EEZ8059)

✉ rshaziya26@gmail.com

Supervisor(s): Prof. A.R. Abhayankar

Broad sub-field of Research: Active Distribution Systems, Operational Planning, Optimization, Network Reconfiguration

Thesis: Efficient and Optimal Operational Planning of Active Distribution Systems



Neha Priyadarshini

(2016EEZ8078)

✉ N/A

Supervisor(s): Prof. Mukul Sarkar

Broad sub-field of Research: N/A

Thesis: High Dynamic Range CMOS Image Sensors For Low Light Applications



Attoti Bharath Krishna

(2017EEZ8153)

✉ bharathattoti@gmail.com

Supervisor(s): Prof. A.R. Abhayankar

Broad sub-field of Research: Power System Analysis; Optimization; Electricity Markets

Thesis: Data-Driven Probabilistic Methods for Accounting Forecast Uncertainties In Power System Analysis and Optimization



Aarti Rathi

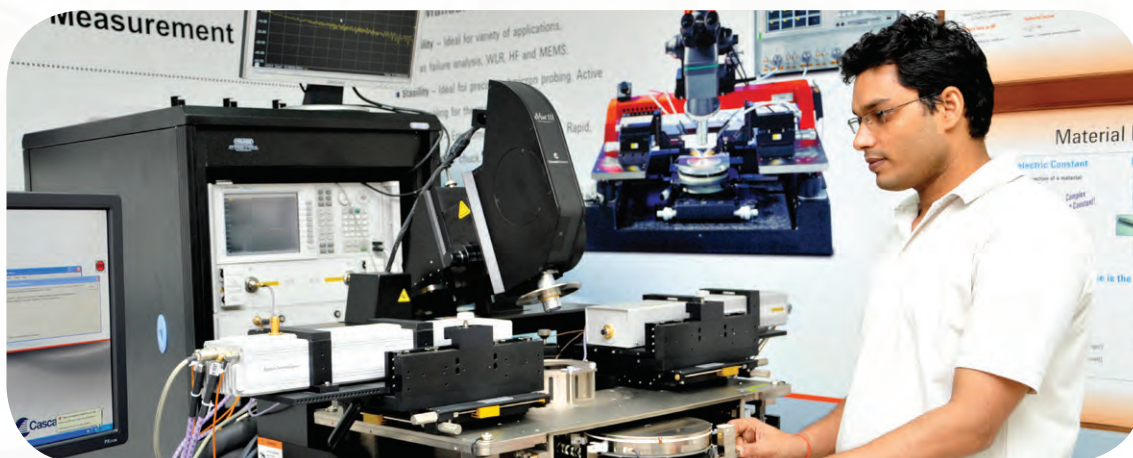
(2018EEZ8554)

✉ aartirathiece@gmail.com

Supervisor(s): Prof. Abhishek Dixit

Broad sub-field of Research: Hot Carrier Reliability, Characterization of Advanced Devices, Modeling, CMOS Devices

Thesis: Hot Carrier Reliability Characterization of RF CMOS Circuits and Devices





Ram Kumar Pal

(2017ESZ8543)

✉ N/A

Supervisor(s): Prof. K. Ravi Kumar

Broad sub-field of Research: N/A

Thesis: Investigation on Direct Steam Generation in Parabolic Trough Solar Collector



Himanshu Grover

(2016ESZ8415)

✉ himanshugrover2697@gmail.com

Supervisor(s): Prof. Ashu Verma and Prof. T.S. Bhatti

Broad sub-field of Research: Power system operation and control; Renewable Energy Integrations; Smart Building Control

Thesis: Monitoring, Operation and Control Strategies for Smart Electrical Systems



Indraj Singh

(2018ESZ8515)

✉ indraj436@gmail.com

Supervisor(s): Prof. R. Uma and Prof. R.P. Sharma

Broad sub-field of Research: Laser Plasma Physics; Laboratory Astrophysics; Filamentation and Self-focusing

Thesis: Electron and Ion Scale Magnetic Turbulence Studies Relevant to Laboratory Astrophysics



Mahreen

(2017ESZ8210)

✉ mahreen.khanm@gmail.com

Supervisor(s): Prof. Satyananda Kar and Prof. Debaprasad Sahu

Broad sub-field of Research: Atmospheric pressure plasma applications Plasma Diagnostics Plasma Source development

Thesis: Development and Investigation of Atmospheric Pressure Non- Thermal RF Plasma Jet



Bakul Kandpal

(2017ESZ8542)

✉ bakulkandpal@gmail.com

Supervisor(s): Prof. Ashu Verma

Broad sub-field of Research: Operations Research, Energy Systems Modelling, Power System, Machine Learning

Thesis: Algorithms for Electric Vehicle Scheduling in Smart Distribution Networks



Sugandha Singh

(2014ESZ8430)

✉ sugandhasingh90@gmail.com

Supervisor(s): Prof. T.S. Bhatti and Prof. G.N. Tiwari

Broad sub-field of Research: Photovoltaic thermal ;Greenhouse; Solar Energy

Thesis: Performance Analysis of Uneven Span Greenhouse Integrated Semitransparent Photovoltaic Thermal (GISPVT) System



Saurabh Pareek

(2017ESZ8211)

✉ saurabhpareek23@gmail.com

Supervisor(s): Prof. Supravat Karak

Broad sub-field of Research: Semiconductors, Photovoltaics, optoelectronics, Materials Science, Nanotechnology

Thesis: Studies on Graphitic Carbon Nitride Nanostructures for Photovoltaic Applications



Sandeep Kumar Singh

(2017ESZ8541)

✉ sandeepiitd17@gmail.com

Supervisor(s): Prof. S.K. Tyagi and Prof. S.C. Kaushik

Broad sub-field of Research: Renewable Energy; Solar Thermal Analysis; Data Analysis

Thesis: Performance Studies of Waste Heat Assisted Solar Drying and Distillation Systems



Ashima Verma

(2019ESZ8262)

✉ ashvrma28@gmail.com

Supervisor(s): Prof. Dibakar Rakshit

Broad sub-field of Research: Electric Vehicles, BMS, thermal management

Thesis: Battery Thermal Management System In Electric Vehicles



Himanshu

(2017ESZ8215)

✉ himanshu210792@gmail.com

Supervisor(s): Prof. S.K. Tyagi and Prof. Sanjeev Jain

Broad sub-field of Research: Biomass pellet, Clean Cookstove

Thesis: Development of Biomass Pellet Based Clean Cookstove for Cooking/Heating Applications



Abhishek Verma

(2017ESZ8216)

✉ abhishek.ces.iitd@gmail.com

Supervisor(s): Prof. S.K. Tyagi and Prof. S.C. Kaushik

Broad sub-field of Research: Hybrid absorption refrigeration systems and their optimization, Transcritical CO₂ (R744) vapour compression systems, Ejector refrigeration systems, Heat & work recovery, Combined cooling, heating, and power. Energy & Energy Analysis for Thermal Energy Systems, Eco-friendly refrigeration with Renewable Energy Technologies

Thesis: Energy and Exergy Analysis of Hybrid Compression-Absorption Cycles for Cooling Applications



Charumita Vasudev

(2015HUZ8461)

✉ huz158461@hss.iitd.ac.in

Supervisor(s): Prof. Ravinder Kaur

Broad sub-field of Research: N/A

Thesis: Gender Regimes, Reproductive Strategies, and Gender Preferences For Children: A Cross-Cultural Comparison of Villages In Jammu Kashmir, and Leh



Preeti Kumari

(2017HUZ8132)

✉ kumaripreeti.2293@gmail.com

Supervisor(s): Prof. Pritha Chandra

Broad sub-field of Research: Linguistics, Theoretical Syntax, Social Interaction and Grammar

Thesis: Honorificity Agreement in Maithili-A Meso-Level Comparison With Maghi and Bangla



Shilpa Bandyopadhyay

(2017HUZ8140)

✉ banerjeeshilpa93@gmail.com

Supervisor(s): Prof. Kamlesh Singh

Broad sub-field of Research: Aging; Gerontology; Well-being Research; Old age Institutions; Aging Policy; Social Media Analysis; Mixed methods Research

Thesis: The Aging Experience and Well-Being of Older People in The Indian Context



Satheesha. B

(2015HUZ8464)

✉ satheeshabannur@gmail.com

Supervisor(s): Prof. Jayan Jose Thomas

Broad sub-field of Research: Rural Labour market; Agriculture

Thesis: Changing Rural Labour Markets In India: Evidence From Secondary Data and a Village in Karnataka



Nikhil Yadav

(2015HUZ8127)

✉ nikhil15adsule@gmail.com

Supervisor(s): Prof. Simona Sawhney and Prof. Milind Wakankar

Broad sub-field of Research: Language, Literature and Social History

Thesis: Memory and Melancholia In The Works of Modiano, Sebald and Pamuk: A Psychoanalytic Study



Vishesh Pratap Gurjar

(2015HUZ8467)

✉ visheshgurjar@gmail.com

Supervisor(s): Prof. Ravinder Kaur

Broad sub-field of Research: Self-making, Urbanization, Youth culture, Sociology of Caste

Thesis: Individualization Among Gurjars in An Urban Village in Delhi



Thirukovela Nikhilesh

(2017HUZ8148)

✉ huz178148@hss.iitd.ac.in

Supervisor(s): Prof. Paroma Sanyal

Broad sub-field of Research: Morpho-Syntax; Noun modification; Language variation

Thesis: Compositionality and Predication of Property Concept (PC)-Expressions in Telangana Telugu



Jyotirmay Das

(2017HUZ8144)

✉ zotrmay@gmail.com

Supervisor(s): Prof. Arjun Ghosh

Broad sub-field of Research: Cultural Studies, Performance Studies, Communication Studies

Thesis: Traditional Performances of The Goalpara Region in Assam



Fariya Yesmin

(2017HUZ8136)

✉ fariya.yesmin@gmail.com

Supervisor(s): Prof. Farhana Ibrahim

Broad sub-field of Research: Legal and Social Anthropology, Anthropology of the State

Thesis: Deconstructing Documentary Citizenship: An Ethnography of Foreigners' Tribunals in Assam



Swayamshree Mishra

(2015HUZ8459)

✉ swayamshree@gmail.com

Supervisor(s): Prof. Ravinder Kaur

Broad sub-field of Research: Sociology of Menstruation; Gender, Body and Sexuality; Feminist ethnography on caste and gender; Infertility studies; Sociology of Health

Thesis: Contemporary Meanings of Menstruation: Gendered Identities, Anxieties, and Lived Experiences of Rural and Urban Odia Women



Nandan Sebastian Rosario

(2016HUZ8529)

✉ N/A

Supervisor(s): Prof. Divya Dwivedi

Broad sub-field of Research: N/A

Thesis: Eyeing The Comic: Narrativity and Visuality



Yukti Bajaj

(2016SMZ8441)

✉ bajaj_yukti@yahoo.in

Supervisor(s): Prof. Smita Kashiramka and Prof. Shveta Singh

Broad sub-field of Research: Corporate finance, Financing decisions, Capital structure, corporate governance, firm performance, leverage dynamics, Emerging markets, Dynamic panel data models

Thesis: Capital Structure Speed of Adjustment: A Comparative Study of India and China



Anushruti Vagrani

(2014SMZ8410)

✉ vagrani.anushruti@gmail.com

Supervisor(s): Prof. P. Vigneswara Ilavarasan

Broad sub-field of Research: ICTD; inequality

Thesis: 'Those Who Want to Use It, and Those Who Can' Internet and Inequality Among the Rural Households in Rajasthan, India



Sachin Yadav

(2017SMZ8456)

✉ sachinyadav.dce@gmail.com

Supervisor(s): Prof. S.P. Singh

Broad sub-field of Research: Operation Research; Blockchain; Machine learning; Supply chain

Thesis: Blockchain for Industry: Select Issues



K Dinesh

(2017SMZ8459)

✉ kdinesh.iitd@gmail.com

Supervisor(s): Prof. Sushil

Broad sub-field of Research: Strategic Innovation Management; Strategic Management; Technology Management; Entrepreneurship; Systems Thinking; System Dynamics

Thesis: Strategic Innovation in New Ventures: A Multi-Method Study



Aakanksha Shrawan

(2018SMZ8524)

✉ shrawan.aakanksha@gmail.com

Supervisor(s): Prof. Amelndu Kumar Dubey

Broad sub-field of Research: Economic growth; Business cycle synchronization; Panel threshold regression model

Thesis: A Study on The Dynamics of Structural Transformation, International Trade and Business Cycle Synchronisation



Anshika Singh Tanwar

(2017SMZ8445)

✉ anshikasingh7@gmail.com

Supervisor(s): Prof. Harish Chaudhary

Broad sub-field of Research: Influencer Marketing; Social Media Influencers; Social Media

Thesis: Role of Influencer Marketing In Electronic Word of Mouth and Purchase Intention of The Digital Consumer



Prashant Kumar

(2017SMZ8440)

✉ pkab36@gmail.com

Supervisor(s): Prof. Arpan K. Karand and Prof. Sunil Mithas

Broad sub-field of Research: Social media, Artificial intelligence, Customer satisfaction, IS applications in Renewable energy

Thesis: Select Studies on The Impact of Social Media on Customer Satisfaction and Firm Performance



Chandra Pal

(2017SMZ8019)

✉ chandraph2@gmail.com

Supervisor(s): Prof. Ravi Shankar

Broad sub-field of Research: Supply Chain, Smart Grid, Big Data

Thesis: Select Studies On Demand Management in Smart Grid



Pankaj Singh Rawat

(2016SMZ8442)

✉ pankaj_rawat@outlook.com

Supervisor(s): Prof. Seema Sharma

Broad sub-field of Research: Economic Growth and Productivity; Financial Economics; Industrial Policy

Thesis: Essays on Finance and Productivity



Rishi Kant Kumar

(2016SMZ8025)

✉ rishinit14@gmail.com

Supervisor(s): Prof. Amlendu Kumar Dubey and Prof. Sudhir K. Jain

Broad sub-field of Research: Innovation and Entrepreneurship; Startups; MSME Entrepreneurs

Thesis: A Diagnostic Analysis of Problems of MSMEs in India



Sonymol K

(2016SMZ8454)

✉ soneaalikkal15@gmail.com

Supervisor(s): Prof. Ravi Shankar

Broad sub-field of Research: Health care management, health care business strategy, health care project, health care quality

Thesis: Study of Select Issues in the Management of Low-Cost Healthcare Delivery in India



Akanksha Mishra

(2016SMZ8020)

✉ amishra2891@gmail.com

Supervisor(s): Prof. Amlendu Kumar Dubey

Broad sub-field of Research: Macroeconomics

Thesis: An Analysis of Inflation Targeting and Its Macroeconomic Consequences



Sauvik Kumar Batabyal

(2015SMZ8330)

✉ batabyal.sauvik@gmail.com

Supervisor(s): Prof. Kanika T. Bhal

Broad sub-field of Research: Organizational Behavior, Human-Computer Interaction, Human Resource Management

Thesis: Perceived Ethicality, Means-End Chains and Antecedents of Employee Cyberloafing



Navendu Prakash

(2018SMZ8187)

✉ navendu7911@gmail.com

Supervisor(s): Prof. Shveta Singh and Prof. Seema Sharma

Broad sub-field of Research: Banking and financial institutions; Technological diffusion; Efficiency and productivity management; Risk management

Thesis: Assessing the It Investment-Performance Paradigm in The Commercial Banking Sector: Empirical Evidence from The Brics and European Banking Systems



Juhi Gupta

(2018SMZ8186)

✉ guptajuhi.1994@gmail.com

Supervisor(s): Prof. Smita Kahiramka

Broad sub-field of Research: Banking; Liquidity risk; Basel Norms; Banking Regulations

Thesis: Bank Liquidity Creation Under Basel Norms: Evidence from the Asia-Pacific Region



Nimish Joseph

(2015SMZ8338)

✉ nimishjoseph@gmail.com

Supervisor(s): Prof. Arpan Kumar Kar and Prof. P. Vigneswara Ilavarasan

Broad sub-field of Research: Social Media Analytics, Group Behavioural Theories, Information Propagation

Thesis: Understanding Information Propagation in social media



Anita Mendiratta (nee Chhabra)

(2018SMZ8526)

✉ mendi.anita@gmail.com

Supervisor(s): Prof. Shveta Singh and Prof. Surendra S. Yadav

Broad sub-field of Research: Corporate Social Responsibility, Corporate Social Irresponsibility, Finance

Thesis: Exploring the Relationships Between Corporate Social Irresponsibility, Corporate Social Responsibility, and Firm Performance



Bibhuti Bhusan Dash

(2016SMZ8456)

✉ bbdash1@gmail.com

Supervisor(s): Prof. Harish Chaudhary

Broad sub-field of Research: Factors of AVSEC perception; Marketing a mandated service

Thesis: Civil Aviation and Security in The Indian Context: Creating A Virtuous Cycle



Arkajyoti De

(2018SMZ8178)

✉ arkajyoti.de@gmail.com

Supervisor(s): Prof. S.P. Singh

Broad sub-field of Research: Agri-supply chain; supply chain pricing; Logistics

Thesis: Agri-Pricing Supply Chain: Select Issues



Abhilasha

(2018SMZ8183)

✉ abhilasha.iitdms@gmail.com

Supervisor(s): Prof. Sanjay Dhir and Prof. Sushil

Broad sub-field of Research: Coopetition; Strategic Alliance; Strategic Management; Sustainability and Coopetition

Thesis: Coopetition: Antecedents, Interplay and Impact on Firm Performance



Monica Shukla

(2017SMZ8448)

✉ Shukla.monica4@gmail.com

Supervisor(s): Prof. Ravi Shankar

Broad sub-field of Research: xxxxx

Thesis: Modeling and Analysis of Smart Manufacturing System Implementation In India SMES





Aravi Muzaffar

(2015MSZ8488)

✉ aravimir@gmail.com

Supervisor(s): Prof. Rajesh Prasad and Prof. Suresh Neelakantan

Broad sub-field of Research: Porous Metallic Materials; Mechanical Properties; Network Architecture

Thesis: Processing, Structure and Mechanical Characterisation Studies for Optimised Design of Copper and Nitinol Based Porous Metallic Fibrous Materials



Shikha

(2016PTZ8108)

✉ nickybaliyan27@gmail.com

Supervisor(s): Prof. Josemon Jacob and Prof. Leena Nebhani

Broad sub-field of Research: Flame retardant additives synthesis

Thesis: Pentaerythritol - Derived Polyhydroxy Dendrimers and Flame-Retardant Additives



Shrikanth S

(2016MSZ8465)

✉ 4shrikanths@gmail.com

Supervisor(s): Prof. Rajesh Prasad and Prof. Suresh Neelakantan

Broad sub-field of Research: Elastic anisotropy; Crystallography; Nanoindentation

Thesis: Some Aspects of The Elastic Anisotropy of Solids



Prajesh Nayak

(2015PTZ8201)

✉ nayakprajesh@gmail.com

Supervisor(s): Prof. Anup K. Ghosh and Prof. Naresh Bhatnagar

Broad sub-field of Research: Fiber Spinning, Shear Thickening Fluid

Thesis: Shear Thickening Fluid Encapsulation in Electrospun UHMWPE and its Ballistic Performance Under High Strain Rate



Ranjeet Kumar

(2017MSZ8127)

✉ kumarranjeet205@gmail.com

Supervisor(s): Prof. Jayant Jain and Prof. Suresh Neelakantan

Broad sub-field of Research: Material Science, Welding, Thermo-mechanical processing, Crystallographic Texture, High temperature behaviour of metals, Alloy development

Thesis: Investigation of Post-Weld Heat Treatments and High-Temperature Behaviour of Steel Welds of T91 and Super304H



Shaifali Dhingra

(2017PTZ8053)

✉ shaifud708@gmail.com

Supervisor(s): Prof. Sampa Saha

Broad sub-field of Research: Polymer chemistry, Biomaterials, biodegradable polymers

Thesis: Hydrophilic Polymer Brush Coatings on Biodegradable Aliphatic Polyester Surface for Biomedical Applications



Aanchal Jaisingh

(2017PTZ8050)

✉ aanchaljaisingh2@gmail.com

Supervisor(s): Prof. Leena Nebhani

Broad sub-field of Research: Surface modification of polymers, synthesis and purification of organic compounds, composites preparation and testing

Thesis: Synthesis of Dendrimers and Organically Modified Mesoporous Silica Via Thiol-Ene Reaction As Additives In Polyolefins



Ashok Kumar Bakshi

(2017PTZ8042)

✉ ashok.bakshi22@gmail.com

Supervisor(s): Prof. Arup K. Ghosh and Prof. Shib Shankar Banerjee

Broad sub-field of Research: Polymer Blends; Carbon Nanotubes; Nanocomposites; Foams; EMI Shielding Effectiveness etc.

Thesis: Processing and Characterizations of HDPE/Plasticized UHMWPE/MWCNT Nanocomposites and Their Foams For EMI Shielding Effectiveness



Ajit Babarao Sheela Bhagat

(2017PTZ8520)

✉ bhagat89@gmail.com

Supervisor(s): Prof. Anup K. Ghosh and Prof. Bhabani K. Satapathy

Broad sub-field of Research: Natural fibre composites; batch and continuous foam processing; rheological percolation threshold; sound and energy absorption application

Thesis: Processing and Performance Properties of Polypropylene/Sisal Fibre Composites and Their Foams



Kasimuthumaniyan S

(2017MSZ8551)

✉ kasimuthumaniyan@gmail.com

Supervisor(s): Prof. Nitya Nand Gosvami and Prof. N.M. Anoop Krishnan

Broad sub-field of Research: Indentation technique; AFM; Mechanical Behavior of Glasses; Ion-exchanged Glass

Thesis: Multi-Scale Indentation and Scratch Behavior of Oxide Glasses



Pandey Kalpana Lalit Chandra

(2017PTZ8045)

✉ kalpanapandey1628@gmail.com

Supervisor(s): Prof. Sampa Saha

Broad sub-field of Research: Biodegradable polymers, Polymer processing, Electrospinning

Thesis: Studies on Zero Valent Iron Loaded Biodegradable Polymeric Particles for Groundwater Remediation



Manisha Binjola

(2018MAZ8449)

✉ N/A

Supervisor(s): Prof. Biplob Basak

Broad sub-field of Research: N/A

Thesis: A Study on Regular Genus and Gem-Complexity of 3- and 4-Manifolds



Dhiraj Patel

(2017MAZ8434)

✉ dpatel.math@gmail.com

Supervisor(s): Prof. S. Sivananthan

Broad sub-field of Research: Signal Processing

Thesis: Random Sampling In Reproducing Kernel Subspaces



Nitin Kumar

(2017MAZ8437)

✉ jaiswaln149@gmail.com

Supervisor(s): Prof. Mani Mehra

Broad sub-field of Research: Fractional Optimal Control Problems; Fractional Differential Equations; Wavelet methods; Numerical Analysis

Thesis: Wavelet Collocation Methods for Fractional Optimal Control Problems



Santosh Kumar Nayak

(2018MAZ8451)

✉ mathnayak@gmail.com

Supervisor(s): Prof. Aparajita Dasgupta

Broad sub-field of Research: Harmonic Analysis; Pseudo-differential operators; Localization operators

Thesis: Pseudo-Differential and Localization Operators On Groups



Rohit Khandelwal

(2017MAZ8299)

✉ rohitkhandelwal004@gmail.com

Supervisor(s): Prof. Kamana Porwal

Broad sub-field of Research: Numerical Analysis, Finite Element Methods and Scientific Computing

Thesis: Pointwise a Posteriori Error Analysis of Finite Element Methods for Elliptic Variational Inequalities



Amit Arora

(2018MAZ8444)

✉ N/A

Supervisor(s): Prof. R.K. Sharma

Broad sub-field of Research: N/A

Thesis: Design and Analysis of Image Encryption Schemes



Mohit Kumar Baghel

(2018MAZ8260)

✉ mohitbaghel18@gmail.com

Supervisor(s): Prof. Punit Sharma

Broad sub-field of Research: Numerical Linear Algebra; Matrix Analysis; Linear Algebra; Functional Analysis; Topology

Thesis: Structured Mappings and Procrustes Problems With Their Applications In Control Systems



Kshitij Kumar Pandey

(2018MAZ8254)

✉ kshitij.sxcr@gmail.com

Supervisor(s): Prof. P. Viswanathan

Broad sub-field of Research: Approximation Theory, Multivariate Approximation, Fractals, Fractal Functions, Fractal Approximation

Thesis: An Investigation of Multivariate Fractal Approximation and Fractal Operator on Various Function Spaces



Abhishek Kumar Singh

(2017MAZ8432)

✉ assinghabhi@gmail.com

Supervisor(s): Prof. Mani Mehra

Broad sub-field of Research: Fractional differential equation; Data-driven approach; Stochastic differential equation; Wavelet methods

Thesis: Numerical Methods and Data-Driven Approach for Stochastic Integro-Differential/Differential Equations Containing Non-Local Operators



Pooja

(2017MAZ8433)

✉ poojagahlyan1995@gmail.com

Supervisor(s): Prof. R.K. Sharma

Broad sub-field of Research: Algebra; Finite Fields

Thesis: Permutation Polynomials Over Finite Fields and Finite Group Rings



**Ramya Ahuja**

(2017MEZ7523)

✉ N/A

Supervisor(s): Prof. Naresh Bhatnagar

Broad sub-field of Research: N/A

Thesis: Studies On Manufacturing & Pre-Clinical Testing of Cardiovascular Stent Materials

**Neha Singh**

(2017MEZ8318)

✉ iitdelhineha@gmail.com

Supervisor(s): Prof. Sujeet Kumar Singh

Broad sub-field of Research: Material; Tribology; Friction

Thesis: Hybrid Polymeric Composites for Tribological Applications

**Dharmender**

(2015MEZ8448)

✉ dkj6217@gmail.com

Supervisor(s): Prof. Harish Hirani and Prof. Ashish K. Darpe

Broad sub-field of Research: Tribology, Condition Monitoring, Nano-Lubrication

Thesis: Damage Assessment of Spur Gear Through Integrated Oil, Wear, and Vibration Techniques

**Kaveri Kala**

(2015MEZ8161)

✉ kala.kaveri6@gmail.com

Supervisor(s): Prof. Nimesh B. Bolia

Broad sub-field of Research: Operations Research; Public Systems; Public Policy

Thesis: Waste Management: A Framework for Intervention

**Amanpreet Singh**

(2016MEZ8541)

✉ singh.amanpreet285@gmail.com

Supervisor(s): Prof. Jitendra P. Khatait

Broad sub-field of Research: Surgical Robotics: RCM Mechanism Design, Sensitivity Analysis (Kinematics, Dynamics, and Control) of RCM Mechanisms, Exact Constrained Design, Tendon-based Transmission Design, Compliant Mechanism Design, Industrial Grade Mechanism Design and Hardware Development, Gravity Balancing, Rapid Prototyping

Thesis: Design of a Robotic Manipulator for Minimally Invasive Surgery

**Devershi Mourya**

(2014MEZ8012)

✉ devershi05@gmail.com

Supervisor(s): Prof. P.M.V. Subbarao

Broad sub-field of Research: Solidworks, Catia, Ansys Fluent, ICEM, Workbench, C Language

Thesis: Development of Advanced Vortex Bow Blades for Turbines



Patil Bhagatsing Ambarsing

(2018MEZ8584)

✉ N/A

Supervisor(s): Prof. P.V.M. Rao and Prof. M S Kulkarni

Broad sub-field of Research: N/A

Thesis: Assessment of Leanness in New Product Development Process: A Case of Machine Tools



Gaurav Nath

(2017MEZ8315)

✉ gauravn1993@gmail.com

Supervisor(s): Prof. Bahni Ray

Broad sub-field of Research: Computational methods, lattice Boltzmann method, code parallelization

Thesis: Bottom-Up and Directed Self-Assembly Using the Lattice Boltzmann Method



Hemant Arora

(2015MEZ8157)

✉ N/A

Supervisor(s): Prof. Sudipto Mukherjee and Prof. B.S. Munjal

Broad sub-field of Research: N/A

Thesis: Investigation on Large Size Deployable Antenna Truss Mechanism



Nitesh Kumar Sahu

(2017MEZ8328)

✉ niteshksahu@gmail.com

Supervisor(s): Prof. Mayank Kumar and Prof. Anupam Dewan

Broad sub-field of Research: Numerical simulations of entrained flow coal reactors

Thesis: Coupled Interactions Between Flow Field and Combustion Inside Entrained Flow Coal Reactors



Rameshwar Chaudhary

(2015MEZ8166)

✉ rams.iitd@gmail.com

Supervisor(s): Prof. R.K. Pandey and Prof. S.K. Mazumdar

Broad sub-field of Research: Boundary Lubrication, Textured Contact, Nano-lubricants

Thesis: Tribo-Performance Studies of Textured Concentrated Contacts at Heavy Loads Using Nano-Lubricants



Pawan Kumar Pant

(2015MEZ8317)

✉ pawanpant@gmail.com

Supervisor(s): Prof. S.R. Kale, Prof. S.V. Veeravalli and Prof. M.R. Ravi (Caretaker Supervisor)

Broad sub-field of Research: Aerodynamics of road vehicles; Virus transmission inside road vehicles

Thesis: Ventilation Studies on Open Window Bus



Ashok Atulkar

(2015MEZ8297)

✉ aatulkar@gmail.com

Supervisor(s): Prof. R.K. Pandey and Prof. P.M. V. Subbarao

Broad sub-field of Research: N/A

Thesis: Tribological Investigation With Textured Piston Rings To Improve The Performance of IC Engine Lubricated With Fresh And Silicate Complexes Nano-Material Blended Oils



Vikas Jangir

(2016MEZ8547)

✉ jangirvikas89@gmail.com

Supervisor(s): Prof. Anjan Ray and Prof. M R Ravi

Broad sub-field of Research: Premixed Combustion; Study of spherically expanding flames; Laminar burning velocity

Thesis: A New Methodology for Determination of Laminar Burning Velocity in a Cylindrical Vessel With Full Optical Access Using Constant Volume Method



Alok Srivastava

(2016MEZ8544)

✉ alokideal@gmail.com

Supervisor(s): Prof. Naresh Bhatnagar

Broad sub-field of Research: Biomaterial, Cardiovascular stents, Mg Alloy

Thesis: A Study of Radiopacity for Making Bioresorbable Metal/ Polymer Stents Visible In MRI/CT Scan



Nandyala Mahesh

(2018MEZ8270)

✉ maheshn1481@gmail.com

Supervisor(s): Prof. Prabal Talukdar and Prof. Neetu Singh

Broad sub-field of Research: Computational Fluid Dynamics; Hyperthermia; Computational Cancer Therapy, Treatment Modeling, Computational Heat Transfer

Thesis: Computational Investigations on The Hyperthermia Thermal Therapy of Cancer Tumors Using Magnetic Nanoparticles



Rohit Mehta

(2017MEZ8317)

✉ rohit0149@gmail.com

Supervisor(s): Prof. Amit Gupta

Broad sub-field of Research: Lithium-ion modelling, Battery Management System, Battery state estimation

Thesis: A Thermo-Electrochemical Investigation of Lithium-Ion Batteries



Rajeevlochana C.G.

(2015MEZ8451)

✉ rg_chittawadigi@blr.amrita.edu

Supervisor(s): Prof. S.K. Saha

Broad sub-field of Research: Railway Vehicle Dynamics; Wheel-Rail Interaction; Isolated Railway Wheelset; Denavit-Hartenberg Parameters; Cone-Line Contact; Cone-Cylinder Contact

Thesis: Kinematic and Dynamic Analyses of a Railway Wheelset as a Serial-Chain Mechanical System



Abhishek Bhatnagar

(2015MEZ8446)

✉ abhishekjmi11@gmail.com

Supervisor(s): Prof. Nimesh Bolia

Broad sub-field of Research: Operations Research; Public Policy; Data Science; Logistics; Transportation

Thesis: Efficient Planning and Management in Indian School Education



Mahendra Kumar Gupta

(2015MEZ8162)

✉ mahendra.kr.gupta@gmail.com

Supervisor(s): Prof. P.M.V. Subbarao

Broad sub-field of Research: Computational Fluid Dynamics, Experimental Analysis

Thesis: Design, Development and Performance Analysis of Pico-Capacity Hydrokinetic Turbine



Suraj S Bhat

(2016MEZ8546)

✉ suraj576@gmail.com

Supervisor(s): Prof. S.K. Saha and Prof. Vinay Gupta

Broad sub-field of Research: Design for BoP, Multibody Dynamics, Design optimisation

Thesis: Selection and Analysis of Technologies Developed for The Base of The Economic Pyramid



Shital Kumar Garg

(2016MEZ8555)

✉ N/A

Supervisor(s): Prof. B. Premachandran

Broad sub-field of Research: N/A

Thesis: Experimental and Numerical Studies of the Regenerator For a Miniature Stirling Cryocooler



Abhishek Sit

(2015MEZ8152)

✉ abhisheksit12@gmail.com

Supervisor(s): Prof. Prabal Talukdar

Broad sub-field of Research: Monte Carlo Simulations; Heat Transfer in Porous Media; Polymer Insulation Foams; Radiation in participating media; Particle Swarm Optimization

Thesis: Pore-Level Numerical Study of Coupled Conduction-Radiation Heat Transfer In Foams



Anupam Bhattacharya

(2016MEZ8274)

✉ anupamcounting@gmail.com

Supervisor(s): Prof. Jayanta K. Dutta, Prof. Ratnamala Chatterjee, and Prof. Antem Mishchenko

Broad sub-field of Research: Machine Learning, Density Functional Theory, Theoretical Condensed Matter Physics

Thesis: Identification and Band Engineering of New Topological Materials



Rishabh Shukla

(2016PHZ8215)

✉ rishabhshuklaiitd@gmail.com

Supervisor(s): Prof. Rajendra S. Dhaka

Broad sub-field of Research: Broad Subfield of Research: Investigation of Structural, Magnetic, Electronic and Transport Properties of Strongly Correlated Materials and their potential applications in Sodium and Lithium-ion Batteries

Thesis: Structural, Magnetic, Electronic, and Transport Properties of Cobalt Based Complex Oxides



Asha Kumari

(2017PHZ8382)

✉ asha52192@gmail.com

Supervisor(s): Prof. Aloka Sinha

Broad sub-field of Research: Soft Matter Physics

Thesis: Design and Development of Polymer Altered Liquid Crystal for Electro-Optic and Thermoelectric Applications



Mohit

(2018PHZ8421)

✉ mohitkhosyaiitd@gmail.com

Supervisor(s): Prof. Neeraj Khare

Broad sub-field of Research: Photoelectrochemical Water Splitting; Hydrogen Generation; Photocatalysis

Thesis: Nanostructured Materials for Photoelectrochemical Water Splitting Application



Manjari Jain

(2018PHZ8339)

✉ manjari1792@gmail.com

Supervisor(s): Prof. Saswata Bhattacharya

Broad sub-field of Research: Condensed Matter Physics

Thesis: Unravelling Optical, Excitonic and Polaronic Effects in Perovskites Using Many Body Perturbation Theory



Madan Lal Sharma

(2017PHZ8617)

✉ pancholiitdelhi@gmail.com

Supervisor(s): Prof. Rajendra Singh

Broad sub-field of Research: Flexible and Transparent ,Nanoelectronic,Memory Devices, 2D Materials

Thesis: Layer Transfer of Two-Dimensional Materials and Semiconductors for Next-Generation Flexible and Heterostructure-Based Electronics



Sahin Sorifi

(2017PHZ8396)

✉ sahinsorifi111@gmail.com

Supervisor(s): Prof. Rajendra Singh

Broad sub-field of Research: 2D materials, 2D/3D heterojunction, Electron Beam Lithography, Photodetection

Thesis: Investigation of the Optical and Optoelectronic Properties of Gase and its Heterojunctions for Photodetector Applications



Mansi Agrawal

(2017PHZ8660)

✉ mansiagra2000@gmail.com

Supervisor(s): Prof. B.R. Mehta, Prof. R. Muralidharan and Prof. J.P. Singh

Broad sub-field of Research: Growth and characterisation of GaN nanostructures and AlGaIn/GaN heterostructures for device applications

Thesis: Growth and Characterization of GaN Nanostructures and AlGaIn/GaN Heterostructures for Device Applications



Narinder Kaur

(2017PHZ8614)

✉ narinder.physics86@gmail.com

Supervisor(s): Prof. B.R. Mehta and Prof. Rajendra Singh

Broad sub-field of Research: 2D materials, 2D-3D heterojunction interface for Photoelectrochemical water splitting and photodetection

Thesis: Growth, Structural, Optoelectronic, and Photoelectrochemical Properties of 2D Transition Metal Chalcogenide-Based Semiconductors and Their Heterostructures



Prashant Bisht

(2017PHZ8391)

✉ prashant.bisht9@gmail.com

Supervisor(s): Prof. B.R. Mehta and Prof. J.P. Singh

Broad sub-field of Research: Nanotechnology

Thesis: Synthesis, Structural, Gas Sensing, IN-SITU XPS and KPFM Investigation of PLD Grown 2D Materials Based Nanostructures



Vireshwar Mishra

(2018PHZ8358)

✉ viresh.pwn@gmail.com

Supervisor(s): Prof. Sujeet Chaudhary

Broad sub-field of Research: Spintronics, Magnetism, Topological Superconductor, Heusler Alloys

Thesis: Growth and Investigations of Co-Based Spin Gapless Semiconducting Equiatomic Quaternary Heusler Alloy Thin Films for Spintronic Applications



Amish Kumar Gautam

(2018PHZ8411)

✉ amish.iitd@gmail.com

Supervisor(s): Prof. Neeraj Khare

Broad sub-field of Research: Thermoelectrics; Nanostructure materials; Energy harvesting devices

Thesis: Nanostructured Materials for Thermoelectric Devices



Gauri Arora

(2016PHZ2023)

✉ gauriarora02@gmail.com

Supervisor(s): Prof. P. Senthilkumaran

Broad sub-field of Research: Optics; polarization; Singular optics; Bio-photonics; Structured beams

Thesis: Investigations on Stokes Singularities



Virendra Kumar

(2017PHZ8411)

✉ virendra.kavi@gmail.com

Supervisor(s): Prof. Dalip Singh Mehta

Broad sub-field of Research: Optics & Photonics, Laser Projectors & Headlamps, Solar Energy Harvesting, Pollution Monitoring, Development of Biomedical Devices

Thesis: Development of Speckle Noise Reduction Devices for Laser Based Projection Imaging and Uniform Illumination



Munish

(2015PHZ8383)

✉ munishiitkgp@gmail.com

Supervisor(s): Prof. H.K. Malik

Broad sub-field of Research: Plasma Physics

Thesis: Gradient-Driven Instabilities In $\vec{E} \times \vec{B}$ Plasma Systems



Khushboo Singh

(2017PHZ8627)

✉ khushboosingh0901@gmail.com

Supervisor(s): Prof. Amartya Sengupta

Broad sub-field of Research: Ultrafast Optics, agri-photonics, optical spectroscopy

Thesis: Chemical Sensing Using THz Time-Domain Spectroscopy



Ashwani Kumar Verma

(2017PHZ8626)

✉ ashwaniverma1506@gmail.com

Supervisor(s): Prof. R.K. Soni and Prof. D.S. Mehta

Broad sub-field of Research: Plasmonics, Molecular Detection, Surface Enhanced Raman Spectroscopy, Pulsed Laser Ablation, Superhydrophobic Surfaces

Thesis: Highly Anisotropic Metal Nanostructures for SERS-Based Trace-Level Molecule Detection



Kapil Narang

(2016PHZ8396)

✉ kapiliitd@gmail.com

Supervisor(s): Prof. Rajendra Singh and Prof. Rajesh Bag

Broad sub-field of Research: III-Nitride; MOVPE; Advanced Heterostructures; AlN; AlGaIn; InAlN

Thesis: MOVPE Growth of III-Nitride Based Advanced Heterostructures



Mohd Yasir Khan

(2016PHZ8208)

✉ physics.yasir@gmail.com

Supervisor(s): Prof. Sujin B. Babu

Broad sub-field of Research: Fluid dynamics, Coarse grained simulations (Molecular Dynamics, Langevin Dynamics, MPCD), micro-swimmers, drug delivery, Active matter, Active colloids

Thesis: Collective Behaviour In Non Equilibrium Active Matter



Shilpa Tayal

(2016PHZ2039)

✉ tia.tayal@gmail.com

Supervisor(s): Prof. D.S. Mehta

Broad sub-field of Research: Microscopy; Optical System design; Nanoscopy; Fluorescence Imaging; Quantitative phase Imaging

Thesis: Multi-Modal and High Resolution Quantitative Phase and Fluorescence Imaging Systems for Biological Applications



Yogita Maithani

(2017PHZ8373)

✉ yomaithani1@gmail.com

Supervisor(s): Prof. J.P. Singh and Prof. B.R. Mehta

Broad sub-field of Research: Nanomaterials, glancing angle deposition, nanomechanical properties, polymer and textile composites, Biosensors, flexible electronics

Thesis: Multifunctional Nanomaterials and Their Composites for Biopotential (ECG) Sensing: Synthesis and Nanomechanical Analysis



Chandra Prakash Verma

(2017PHZ8622)

✉ chandraprakash1612@gmail.com

Supervisor(s): Prof. G. Vijaya Prakash

Broad sub-field of Research: Silicon based structures, Electrochemical fabrication, Distributed Bragg reflectors, Microcavity, optoelectronics devices, porous silicon, Ion irradiation and ion implantation, nanophotonics

Thesis: Optical Studies of Ion Irradiated Silicon Based Photonic Structures



Inderpreet Kaur

(2014PHZ8105)

✉ inderpreetkaur_90@yahoo.com

Supervisor(s): Prof. Sankalpa Ghosh

Broad sub-field of Research: Analog Gravity; Quantum phenomena; Entanglement

Thesis: Analog Gravity With Synthetically Spin-Orbit-Coupled Bose-Einstein Condensate



Diksha Garg

(2018PHZ8337)

✉ dikshagarg55@gmail.com

Supervisor(s): Prof. Amartya Sengupta

Broad sub-field of Research: Optics, Raman spectroscopy, terahertz spectroscopy

Thesis: Feasibility Studies of Optical Spectroscopic Sensing In Agri-Food Applications



Mansi Butola

(2016PHZ2024)

✉ mansibutola83@gmail.com

Supervisor(s): Prof. Kedar Khare

Broad sub-field of Research: Phase retrieval, computational imaging, X-ray Coherent Diffraction Imaging

Thesis: Fourier Phase Retrieval: New Strategies and Applications To Coherent Diffraction Imaging



Amal Jahan C S

(2017PHZ8395)

✉ amaljahan@gmail.com

Supervisor(s): Prof. Amruta Mishra

Broad sub-field of Research: High Energy Physics, Nuclear Physics, Chiral Effective Theories

Thesis: Heavy Flavour Mesons in Hadronic Medium



Poornima Shakya

(2015PHZ8187)

✉ poornimashk@gmail.com

Supervisor(s): Prof. Sankalpa Ghosh

Broad sub-field of Research: Ultracold atoms, synthetic gauge field, optical lattices, dynamic gauge fields, atomic interferometry with ultracold atoms

Thesis: Self-Organization and Synthetic Gauge Field for Ultracold Bosons from Atom-Photon Interaction Inside a Cavity



Priyadarshini M

(2017PHZ8613)

✉ priyaee0509@gmail.com

Supervisor(s): Prof. G. Vijaya Prakash and Prof. B.D. Gupta

Broad sub-field of Research: Nanophotonics; Fiber optic sensors

Thesis: Studies On The Linear and Nonlinear Optical Behaviour of Colloidal Metallic and Metalloid Nanostructures



Nanhe Kumar Gupta

(2017PHZ8623)

✉ nanhekg@gmail.com

Supervisor(s): Prof. Sujeet Chaudhary

Broad sub-field of Research: Condensed Matter, Thin film and Spintronics

Thesis: Fabrication and Investigations on The Sputtered CoFeB Based Heterostructures Comprising of Transition Metal Dichalcogenides and Heavy Metals



Sonu Kumar

(2017PHZ8389)

✉ kashyapsonu09@gmail.com

Supervisor(s): Prof. H.K. Malik and Prof. Dhananjay K. Singh

Broad sub-field of Research: Laser-plasma interaction; Particle in cell (PIC) simulation method, Laser Wakefield Acceleration

Thesis: Analytical and Numerical Studies of Laser Wakefield Acceleration in Bubble Regime



Lalit Pandey

(2018PHZ8323)

✉ jblalitpandey@gmail.com

Supervisor(s): Prof. Sujeet Chaudhary

Broad sub-field of Research: Materials Science, Thin film Science and Technology, Semiconductors

Thesis: Magnetotransport and Spin Dynamics Investigations on The Te-Based Topological Materials and Their Heterostructures Fabricated by Sputtering



Rajneesh Joshi

(2016PHZ8207)

✉ rajneeshjoshi077@gmail.com

Supervisor(s): Prof. Bhaskar Kanseri

Broad sub-field of Research: Partial polarization, Partial Coherence, and Cross - spectral purity

Thesis: Coherence Induced Polarization and Spectral Studies of Electromagnetic Optical Fields



Ajay Kumar

(2016PHZ8393)

✉ raoajaydu@gmail.com

Supervisor(s): Prof. Rajendra S. Dhaka

Broad sub-field of Research: Expertise in magnetism, specific heat, Neutron diffraction, x-ray absorption spectroscopy, x-ray diffraction, dielectric measurements, Raman spectroscopy, growth and characterization of the pulsed laser grown epitaxial thin films

Thesis: Investigation of The Structural, Magnetic, Electronic, and Transport Properties of Double Perovskites $\text{Sr}_{2-x}\text{La}_x\text{CoNbO}_6$



Sunaina

(2016PHZ2025)

✉ sunainarajora1511@gmail.com

Supervisor(s): Prof. Kedar Khare

Broad sub-field of Research: Computational Imaging; Phase retrieval; Digital holography; 3D image reconstruction; Optimization algorithms for inverse imaging problems

Thesis: Mean Gradient Descent-A New Optimization Approach With Applications to Inverse Problems In Imaging



Ekta

(2016PHZ8210)

✉ ektagoyat05@gmail.com

Supervisor(s): Prof. Sujeet Chaudhary

Broad sub-field of Research: Work done for this thesis links the relation between the growth and spin dynamic properties of various FM and FM/NM heterostructures. Additionally, it provides a fundamental understanding about the interfacial effects like exchange bias phenomenon and spin-pumping that occur in AF/FM interfaces. This work will be very important for the optimization of the materials used in actual implementation of spintronics memory

Thesis: Investigations of The Magnetic Anisotropy, Exchange Bias and Ferromagnetic Resonance in $\text{Co}_{1-x}\text{Ni}_x\text{Fe}_{1-y}\text{Mn}_y$ Thin Films



V Nithin

(2015PHZ8378)

✉ v.nithin@outlook.com

Supervisor(s): Prof. M.R. Shenoy

Broad sub-field of Research: Integrated optics; optoelectronic devices; semiconductor physics

Thesis: Design of Efficient Optical and Electrical Pumping Configurations for Semiconductor Optical Amplifiers and Lasers



Deepika Gill

(2018PHZ8321)

✉ deepikagill1008dg@gmail.com

Supervisor(s): Prof. Saswata Bhattacharya

Broad sub-field of Research: Perovskite materials for optoelectronics and solar cells; Solid state electrolytes for Li-ion batteries; Role of catalysts in H_2 production and Bio mass conversion

Thesis: Theoretical Insights of Defects in Modulating Functional Properties of Various Advanced Energy Materials



Kacho Imtiyaz Ali Khan

(2017PHZ8404)

✉ N/A

Supervisor(s): Prof. P.K. Muduli

Broad sub-field of Research: N/A

Thesis: Growth and Investigation of Ferromagnetic and Antiferromagnetic Quantum Materials For Spintronic Devices



Arunima Singh

(2018PHZ8342)

✉ N/A

Supervisor(s): Prof. Saswata Bhattacharya

Broad sub-field of Research: N/A

Thesis: Theoretical Insights in 2D Defect Engineering Snd VAN DER WAALS Heterostructures for Optical and Catalytic Applications



Yetendra Prasad Jha

(2019PHZ8043)

✉ N/A

Supervisor(s): Prof. Hitendra K. Malik and Prof. Mayank Kumar

Broad sub-field of Research: N/A

Thesis: Sheath Characteristics in A Plasma Carrying Electron Emission from The Wall





Prasun Mathur

(2016TTZ8470)

✉ N/A

Supervisor(s): Prof. Kushal Sen and Prof. Javed Nabibaksha Sheikh,

Broad sub-field of Research: N/A

Thesis: Studies on The Flame Retardancy of Nitrogen-Rich Textiles



Priyal Dixit

(2017TTZ8348)

✉ dixitpriyal1108@gmail.com

Supervisor(s): Prof. S.M. Ishiaque, Prof. S.D. Joshi, and Prof. Abhishek Dixit

Broad sub-field of Research: Nonwoven; Air filters; Design of experiments; Carding

Thesis: Study of Composite Nonwoven Structure on The Properties of Needle Punched Fabric



Khude Prakash Arun

(2014TTZ8145)

✉ prakashphdiitd@gmail.com

Supervisor(s): Prof. Abhijit Majumdar and Prof. Bhupendra Singh Butola

Broad sub-field of Research: Technical Textile, Weaving, Knitting, Antibacterial Textile

Thesis: Studies on Durable Antibacterial Fabrics Using Nano-Silver Embedded Polyester Fibres



Pal Parikshit

(2019TTZ8466)

✉ N/A

Supervisor(s): Prof. B.K. Behera,

Broad sub-field of Research: N/A

Thesis: Acoustic Behavior of Textile Structures



Rupali

(2017TTZ8351)

✉ N/A

Supervisor(s): Prof. R. Chattopadhyay

Broad sub-field of Research: N/A

Thesis: Studies on Liquid Absorbency Behavior of Nonwoven and Fibrous Web



Veerender Sharma

(2019TTZ2125)

✉ chemi.veeru@gmail.com

Supervisor(s): Prof. Wazed Ali

Broad sub-field of Research: Synthetic chemistry; Multifunctional textile; Nanomaterial

Thesis: Studies on Vanillin-Based Derivatives as Multi-Functional Agents for Textile Substrate



Lekhani Tripathi

(2018TTZ8454)

✉ lekhanitri@gmail.com

Supervisor(s): Prof. B.K. Behera

Broad sub-field of Research: Weaving, Technical textile, Functional fabric

Thesis: Structural Mechanics of 3D Woven Honeycomb Composites



Juhi Chakraborty

(2016TTZ8468)

✉ N/A

Supervisor(s): Prof. Sourabh Ghosh

Broad sub-field of Research: N/A

Thesis: Investigation of Tissue Engineering and 3D Bioprinting Strategies for the Regeneration of Soft and Hard Tissues



Ankit Kumar Singh

(2020TTZ8015)

✉ N/A

Supervisor(s): Prof. Javed Nabibaksha Sheikh

Broad sub-field of Research: N/A

Thesis: Studies in Development of Novel Functional Dyes For Textiles



Chandra Jeet Singh

(2015TTZ8471)

✉ N/A

Supervisor(s): Prof. R.S. Rengasmy and Prof. Samrat Mukhopadhyay

Broad sub-field of Research: N/A

Thesis: Biodegradable Natural Fibre-Based Coalescence Filter and Sorbent For Oil Separation From Oily Wastewater



Manisha Yadav

(2016TTZ8473)

✉ manishayadav3089@gmail.com

Supervisor(s): Prof. Deepti Gupta and Prof. R.S. Rengasamy

Broad sub-field of Research: Agricultural, Biomass Waste Utilization, Absorbent Medical Sector, Wastewater Treatment

Thesis: Studies on Extraction and Application of Pearl Millet (Pennisetum Glaucum) Fibers



Pranav Kumar Shrivastava

(2014CRZ8294)

✉ pranav.shantikun@gmail.com

Supervisor(s): Prof. Shibhan K. Koul and Prof. Mahesh P. Abegaonkar

Broad sub-field of Research: RF MEMS

Thesis: Studies on Micromachined Circuits for Microwave to Sub-THz Applications



Shraddha Pali

(2016CRZ8567)

✉ shraddha605@gmail.com

Supervisor(s): Prof. Ankur Gupta

Broad sub-field of Research: Power MOSFET, Electrothermal Switching Reliability, Switching Performance

Thesis: Design and Analysis of Drain-Extended MOS(DeMOS) for Improved Switching Performance and Electrothermal Switching Reliability



Vishal Kumar

(2014CRZ8381)

✉ N/A

Supervisor(s): Prof. Shibhan Koul and Prof. Ananjan Basu

Broad sub-field of Research: N/A

Thesis: Performance Optimization of Tunable RF Memos Based Devices



Bipin Kumar

(2014CRZ8292)

✉ bipinpateliitd.ai@gmail.com

Supervisor(s): Prof. Ankur Gupta and Prof. Rajendar Bahl

Broad sub-field of Research: Underwater Signal Processing, Sonar, Source Localization, Array Processing, Acoustic Vector Sensor, DOA Estimation

Thesis: Studies On Underwater Directional Acoustic Sensor



Sunil Kumar Sinha

(2015CRZ8039)

✉ sunilsinha2@rediffmail.com

Supervisor(s): Prof. Arun Kumar and Prof. Rajendar Bahl

Broad sub-field of Research: DOA estimation of aerial vehicle

Thesis: Studies On Direction Finding and Motion State Estimation of Maneuvering Aerial Vehicle From Its Acoustic Emission



Somia Sharma

(2017CRZ8640)

✉ somiasharmaec@gmail.com

Supervisor(s): Prof. Shibhan Kishen Koul and Prof. Prof. Ananjan Basu

Broad sub-field of Research: xxxxx

Thesis: Spoof Surface Plasmon Polariton-Based Antenna



Shraddha Gupta

(2017CRZ8069)

✉ shradhagupta1289@gmail.com

Supervisor(s): Prof. Ankur Gupta and Prof. Janesh K. Kaushik

Broad sub-field of Research: Semiconductor device physics; Silvaco/Sentaurus TCAD; DC I-V, and C-V, transient analysis using DLTS

Thesis: Investigation of Traps Induced Reliability Issues in GaN High Electron Mobility Transistors





Sudipta Ghosh

(2014ASZ8358)

✉ sudiptaghosh006@gmail.com

Supervisor(s): Prof. Sagnik Dey

Broad sub-field of Research: Regional Climate Modelling; Carbonaceous Aerosols; Model Development; Radiative Forcing

Thesis: Impact of Carbonaceous Aerosols on The Regional Climate of India Using a Regional Climate Model



Pawan Vats

(2013ASZ8508)

✉ pawanvats5086@gmail.com

Supervisor(s): Prof. Dilip Ganguly

Broad sub-field of Research: Atmospheric Chemistry-Climate Model, CESM, Volatile Organic Compounds, Secondary Organic Compounds

Thesis: Modelling of Organic Aerosols Over the Indian Region



Seelanki Vivek

(2017ASZ8031)

✉ clankivivek@gmail.com

Supervisor(s): Prof. Vimlesh Pant

Broad sub-field of Research: Ocean Modeling; Bio-physical Interactions; Physical Oceanography; Ocean-Biogeochemistry; Data Assimilation; Tropical Cyclones

Thesis: Biophysical Variability in The North Indian Ocean Using a Coupled Physical-Biogeochemical Model



Aditya Dhuria

(2014ASZ8357)

✉ adityadhuria15@gmail.com

Supervisor(s): Prof. Maithili Sharan

Broad sub-field of Research: Surface layer, meandering, spectrum analysis, turbulent parameters studies, low and moderate wind

Thesis: Surface Layer Turbulent and Spectral Characteristics Under Low and Moderate Wind Conditions



Badarvada Yadidya

(2017ASZ8659)

✉ yadidyabadarvada@gmail.com

Supervisor(s): Prof. A.D. Rao and Prof. Vimlesh Pant

Broad sub-field of Research: Oceanography; Climate Sciences; Atmospheric Sciences

Thesis: Variability of Internal Waves in The Andaman Sea



Soumi Dutta

(2015ASZ8227)

✉ soumidutta309@gmail.com

Supervisor(s): Prof. Sagnik Dey and Prof. Larry Di Girolamo

Broad sub-field of Research: Meteorology, Cloud Physics, Remote Sensing

Thesis: Towards Improved Estimates of Global Cloud Fraction by Addressing Uncertainties Involved in Satellite Cloud Remote Sensing



Ankit Saxena

(2017ITZ8430)

✉ Ankit Saxena

Supervisor(s): Prof. Deepak Kumar and Prof. Naresh Tandon

Broad sub-field of Research: Lubricants; Greases; Tribology

Thesis: Development and Tribo-Dynamic Performance of Environmentally Friendly Greases



Avi Gupta

(2017ITZ8429)

✉ N/A

Supervisor(s): Prof. Deepak Kumar

Broad sub-field of Research: N/A

Thesis: Multifunctional Ceramic-Based Coatings on Structural Steels



Bansidhar Gouda

(2015ITZ8140)

✉ bansidhargouda@gmail.com

Supervisor(s): Prof. R.K. Pandey and Prof. C.K. Babu

Broad sub-field of Research: Ball bearings; Bearing vibration and noise studies; design of test rigs for performance evaluation of ball bearings

Thesis: Development and Tribodynamic Studies of New Micro-Grooved and Textured Radial Ball Bearings





Shreemoyee De

(2017BMZ8629)

✉ shreemoyee19@gmail.com

Supervisor(s): Prof. Neetu Singh

Broad sub-field of Research: Biomaterials; Clinical Models; Molecular Diagnostics

Thesis: 3D In-Vitro Platform to Study Diseases



Jogi Sandeep Panwar

(2015BMZ8342)

✉ N/A

Supervisor(s): Prof. Amit Mehndiratta and Prof. Anup Singh

Broad sub-field of Research: N/A

Thesis: Design and Evaluation of MR-Safe Loading Device for Knee Joint Assessment with MRI



Subhodip Chatterjee

(2018BMZ8309)

✉ N/A

Supervisor(s): Prof. Arnab Chanda

Broad sub-field of Research: N/A

Thesis: Modelling and Mitigation of Unexpected Slips and Falls in Hospitals



Archana Vadiraj Malagi

(2017BMZ8358)

✉ archanamalagi@gmail.com

Supervisor(s): Prof. Amit Mehndiratta and Dr. Devasenathipathy Kandasamy

Broad sub-field of Research: Cancer; Image processing; Machine Learning; MRI; PET/CT; Medical Imaging; Lymphoma; Prostate cancer; Pancreatic cancer

Thesis: Quantitative Diffusion-Weighted Imaging in Cancer Applications



Ahana Banerjee

(2017BMZ8360)

✉ ahanabanerjee93@gmail.com

Supervisor(s): Prof. Jayanta Bhattacharyya and Prof. Veena Koul

Broad sub-field of Research: Biomaterials; Drug delivery; Bio-therapeutics

Thesis: Development of Biomimetic Scaffolds to Regulate Diabetic Wound Microenvironment



Aayushi Khajuria

(2017BMZ8357)

✉ aayushikhajuria@gmail.com

Supervisor(s): Prof. Deepak Joshi

Broad sub-field of Research: Biomechanics; Electroencephalography; Neuroscience; Biofeedback; Rehabilitation

Thesis: Cortical Correlates of Voluntary Postural Sway with Vibrotactile Feedback in Transfemoral Amputees



Dharmesh Singh

(2017BMZ8359)

✉ dharmeshsingh1510@gmail.com

Supervisor(s): Prof. Amit Mehndiratta, Prof. Anup Singh and Prof. Virendra Kumar

Broad sub-field of Research: Medical Image Processing, Machine Learning, Magnetic Resonance Imaging

Thesis: Quantitative Analysis of MR Images for Characterization and Diagnostic Assessment of Prostate Cancer



Anjali Barnwal

(2018BMZ8308)

✉ anjalibarnwal60@gmail.com

Supervisor(s): Prof. Jayanta Bhattacharyya

Broad sub-field of Research: Cancer therapy; Immunotherapy; Vaccine

Thesis: Harnessing Immune System For The Development of Therapeutics Against Cancer and Covid-19



K E CH Vidyasagar

(2017BMZ8413)

✉ vidyasagar.k@uceou.edu

Supervisor(s): Prof. Dinesh Kalyansundaram

Broad sub-field of Research: Laser Surface Texturing, Bio-Tribology

Thesis: Laser Surface Texturing of Freeform Surfaces of Articulating Components for Enhanced Tribo-Corrosion Properties



Akshay Joshi

(2017BMZ8355)

✉ N/A

Supervisor(s): Prof. Neetu Singh

Broad sub-field of Research: N/A

Thesis: Understanding Cell-Cell and Cell Material Interactions in 2D and 3D for Tissue Engineering Applications



Sachchidanand Tiwari

(2016BMZ8398)

✉ sachchidanandatiwari@gmail.com

Supervisor(s): Prof. Harpal Singh

Broad sub-field of Research: Polymer chemistry, Drug Delivery, Cancer Therapy

Thesis: Synthesis and Characterization of PI3-K δ /HDAC6 Dual Inhibitor and Chemo Drug Coencapsulated Biodegradable Polymeric Nanoparticles for Cancer Therapy



Mohd Anees

(2017BMZ8361)

✉ mdanees1992@gmail.com

Supervisor(s): Prof. Harpal Singh

Broad sub-field of Research: Drug delivery; Nanomedicine; Polymer Engineering; Cancer therapy

Thesis: Development of Polylactic Acid Based Biodegradable Nanoparticles for Concomitant Delivery of Cancer Stem Cell Inhibitor and Primary Chemotherapeutic Drugs for Cancer Therapy



Uma Dwivedi

(2015RDZ8453)

✉ N/A

Supervisor(s): Prof. S.N. Naik and Prof. K.K. Pant

Broad sub-field of Research: N/A

Thesis: Waste Plastic Conversion into High-Value Products Using Zeolite Based Catalysts



Adya Isha

(2017RDZ8236)

✉ N/A

Supervisor(s): Prof. Virendra K. Vijay, Prof. Ram Chandra and Prof. P.M.V. Subbarao

Broad sub-field of Research: N/A

Thesis: Development of High-Efficiency Anaerobic Digestion Process of Kitchen, Vegetable, and Fruit Wastes for Biogas Production



Vidhi Hitesh Bimjiyani

(2016RDZ8358)

✉ N/A

Supervisor(s): Prof. S.N. Naik and Prof. A.K. Dalai

Broad sub-field of Research: N/A

Thesis: Development of Green Process for Extraction of Bioactive Compounds From Flaxseed



Nidhi Hans

(2017RDZ8242)

✉ nidhihans015@gmail.com

Supervisor(s): Prof. Prof. S.N. Naik and Prof. Anushree Malik

Broad sub-field of Research: Green Extraction; Phycology; Natural Compounds

Thesis: Valorization of Algal Biomass by Extracting Bioactive Compounds Using Supercritical CO₂ and Subcritical Water Extraction Process



Pooja Yadav

(2017RDZ8426)

✉ poojaydvsp@gmail.com

Supervisor(s): Prof. Vivek Kumar

Broad sub-field of Research: Membrane Separation Processes; Nanocomposite Materials; Desalination

Thesis: Nanofiber Membrane-Based Water Treatment Systems for Desalination and Heavy Metals Removal



Nitin Kumar

(2015RDZ8457)

✉ N/A

Supervisor(s): Prof. Prof. S.N. Naik and Prof. J.K. Sahu

Broad sub-field of Research: N/A

Thesis: Extraction And Characterization of Bioactives From Giloy (Tinospora Cordifolia) and Its Application In Herbal Yogurt Formulation

**Vinayak Dattatray Fasake**

(2017RDZ8226)

✉ N/A

Supervisor(s): Prof. Prof. Kavya Dashora

Broad sub-field of Research: N/A

Thesis: Developing Non-Wood Paper and Optimizing for Rural Scale Packaging

**Ayushi Srivastava**

(2017RDZ8228)

✉ N/A

Supervisor(s): Prof. Kavya Dashora

Broad sub-field of Research: N/A

Thesis: Electronic Traceability of Indian Honey Using Blockchain Technology

**Suneet Anand**

(2014RDZ8251)

✉ N/A

Supervisor(s): Prof. V M Chariar

Broad sub-field of Research: N/A

Thesis: Promoting Climate Resilience of Housing in India-A Framework for Social Housing

**P. Duraivadivel**

(2015RDZ8455)

✉ duraivadivel@gmail.com

Supervisor(s): Prof. Hariprasad P. and Prof. Santosh Satya

Broad sub-field of Research: Biotechnology; Microbiology; Bioformulation; Soil-plant-microbe interactions; Sustainable Agriculture

Thesis: Scientific Validation of Jeevamrutha for Sustainable Agriculture

**Garima Singh**

(2016RDZ8357)

✉ N/A

Supervisor(s): Prof. Satyawati Sharma and Prof. Hariprasad P.

Broad sub-field of Research: N/A

Thesis: Development of an Integrated Technology Package for Paddy Straw Management

**Saurabh Samuchiwal**

(2017RDZ8239)

✉ saurabh.samuchiwal@gmail.com

Supervisor(s): Prof. Anushree Malik

Broad sub-field of Research: Effluent treatment, Textile industry waste management, Life cycle assessment, Microbial Product development

Thesis: Development and Onsite Validation of Sequential Microbial Based Anaerobic-Aerobic Reactor Technology (Smaart) for Textile Effluent Treatment: Mechanism Elucidation and Life Cycle Assessment



Mohd Aamir Khan

(2017RDZ8579)

✉ aamiradams@gmail.com

Supervisor(s): Prof. Satyawati Sharma and Prof. Abhishek Sharma

Broad sub-field of Research: Bioremediation; Ecosystem Management; Bioformulations

Thesis: Bioremediation of Xenobiotics (RDX and Carbofuran) Polluted Soils



Praveen Kumar

(2017RDZ8581)

✉ praveen.meitd@gmail.com

Supervisor(s): Prof. P.M.V. Subbarao and Prof. V.K. Vijay

Broad sub-field of Research: Hydrogen generation; Biorenewable Energy; Biofuels; Biomass Conversion; Thermo-Chemical conversion

Thesis: Development of Thermochemical Gasification Process for Pearl Millet and Corn Cobs; Testing of Power Generation System Using Mixture of Producer Gas and Biogas



Kumaresh Halder

(2016RDZ8367)

✉ kumar.halder@gmail.com

Supervisor(s): Prof. J.K. Sahu and Prof. S.N. Naik

Broad sub-field of Research: Size based fractionation of milk fat globules; Improvement in the process for preparation of traditional Indian milk products from size based fractionated fat globules; Preparation of traditional Indian Butter (Makkhan)

Thesis: Production of Traditional Indian Butter (Makkhan): Process Improvement and Quality Assessment



Rahul Jain

(2017RDZ8220)

✉ N/A

Supervisor(s): Prof. Anushree Malik and Prof. Rajiv Satyakam

Broad sub-field of Research: N/A

Thesis: Building Diatom Biorefinery: Converting Thermal Power Plant Effluent to Sustainable Material and Fuel



Monalisa Sahoo

(2017RDZ8240)

✉ saidurga48@gmail.com

Supervisor(s): Prof. Vivek Kumar and Prof. S.N. Naik

Broad sub-field of Research: Food Chemistry; Drying Technology; Product Development; Natural Antioxidants

Thesis: Processing of Wild Yam (Dioscorea Spp.) for Development of Functional Foods



Harshita Nigam

(2017RDZ8235)

✉ harshitanigam31@gmail.com

Supervisor(s): Prof. Anushree Malik and Prof. Vikram Singh

Broad sub-field of Research: Algal Biotechnology

Thesis: Investigating the Impact of Nano-Emulsions and Nanoparticles on Microalgae



Dalvi Vivek Suresh

(2017RDZ8234)

✉ N/A

Supervisor(s): Prof. Anushree Malik and Prof. Pushap Chawla

Broad sub-field of Research: N/A

Thesis: Development of A Novel Recirculation Photobioreactor for On-Site Reatment of Municipal Wastewater, and Investigations on Valorization of Biomass into High-Value Product Streams



Abhay Tiwari

(2017RDZ8577)

✉ tiwariabhay.19@gmail.com

Supervisor(s): Prof. Satyawati Sharma, Prof. Vasudha Sharma, and Prof. Rupesh K. Srivastava

Broad sub-field of Research: Food Technology; Food Safety and Quality; Food Biotechnology; New Product Development; Microbiology; Biotechnology; Mushroom Technology

Thesis: Studies on Mushroom Based Nutraceuticals Probiotic Products



Swapan Sagarika Sahoo

(2016RDZ8364)

✉ N/A

Supervisor(s): Prof. V.K. Vijay and Prof. Ram Chandra

Broad sub-field of Research: N/A

Thesis: Study on Biochar Preparation from Bamboo and Pigeon Pea Stalk and Its Application for Enhancing Biogas Production and Crop Yield



Mandira Kapri

(2016RDZ8361)

✉ N/A

Supervisor(s): Prof. Satyawati Sharma and Prof. P.P. Srivastav

Broad sub-field of Research: N/A

Thesis: Development of Functional Food Product Using Mushroom (*Calocybe indica*) Mycelia Fermented Agro-Waste



Mansi Mishra

(2017RDZ8222)

✉ mansi.mishra1927@gmail.com

Supervisor(s): Prof. Kavya Dashora and Prof. Somnath Roy

Broad sub-field of Research: Nanotechnology, Green synthesis, Agriculture, Nanopesticides

Thesis: Nano-Biopesticides Development Using Cow Dung and Cow Urine Against *Oligonchus Coffeae* Nietner



Nikita Sanwal

(2018RDZ8643)

✉ N/A

Supervisor(s): Prof. J.K. Sahu and S.N. Naik

Broad sub-field of Research: N/A

Thesis: Integrated Processing for Value Chain Development of Indian Trans Himalayan Sea BUCKTHORN (*HIPPOPHAE* SP.)



Lalit Mohan Pant

(2014IDZ8184)

✉ N/A

Supervisor(s): Prof. Gufran Sayeed Khan and Prof. Chandra Shakher

Broad sub-field of Research: N/A

Thesis: Investigations on Metrology of Freeform Optics and Its Application In Infrared Imaging



Md Amir

(2017IDZ8632)

✉ N/A

Supervisor(s): Prof. Gufran Sayeed Khan and Prof. S. Wazed Ali

Broad sub-field of Research: N/A

Thesis: Development of Spion-Based Nanoabrasives for Superfinish Optical Polishing





Alok Nikhil Jha

(2014TRZ8020)

✉ N/A

Supervisor(s): Prof. Niladri Chatterjee and Prof. Geetam Tiwari

Broad sub-field of Research: N/A

Thesis: Framework For Analysis of Hit-and-Run Road Traffic Crashes





Priyanka Singla

(2018ANZ8387)

✉ N/A

Supervisor(s): Prof. Smruti R. Sarangi

Broad sub-field of Research: N/A

Thesis: Efficient Architectures and Networks for Energy Harvesting Systems



Aruna Bansal

(2018ANZ8379)

✉ aruna.bansal.iitd@gmail.com

Supervisor(s): Prof. Kolin Paul

Broad sub-field of Research: Databases, Database Management, Distributed Systems, Graph Databases, mHealth

Thesis: Hypergraphs As a Conceptual Model for Mediating Translations Between Data Models



Britty Baby

(2014ANZ8198)

✉ brittybaby1809@gmail.com

Supervisor(s): Prof. Chetan Arora, Prof. Ashish Suri, and Prof. Subhashis Banerjee

Broad sub-field of Research: Computer vision, surgical data science, surgical navigation, biomedical image analysis

Thesis: Computer Vision-Based Neuro-Endoscopic Surgical Video Analysis and Evaluation Systems



Sidharth Ranjan

(2017ANZ8422)

✉ sidharth.ranjan03@gmail.com

Supervisor(s): Prof. Sumeet Agarwal and Prof. Rajakrishnan Rajkumar

Broad sub-field of Research: Computational Linguistics; Psychology; Cognitive Modeling; Natural Language Processing; Cognitive Science

Thesis: Cognitive Modeling of Hindi Syntactic Choice Phenomena



Shubhani

(2016ANZ8046)

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Supervisor(s): Prof. Sorav Bansal

Broad sub-field of Research: Formal Verification; Compilers; Program Analysis

Thesis: Counterexample-Guided Equivalence Checking



Vikas Upadhyay

(2018ANZ8059)

✉ N/A

Supervisor(s): Prof. M. Balakrishnan and Prof. Rohan Paul

Broad sub-field of Research: N/A

Thesis: An Inclusive Indoor Wayfinding Solution for People With Visual Impairment



Shashank Sharma

(2013ANZ8012)

✉ N/A

Supervisor(s): Prof. Kolin Paul

Broad sub-field of Research: N/A

Thesis: De-Novo Assembly of Short Reads in Minimal Overlap Model





**Gupta Laxmi Anil Kumar
Mithlesh**

(2017BSZ8496)

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Supervisor(s): Prof. Ravi Shankar

Broad sub-field of Research: Service Supply Chain; Smart Grid Services; Energy Storage System in Grid

Thesis: Study of Select Issues in the Management of Service Supply Chain for Integrated Smart Grid in India



Archana

(2017BSZ8036)

✉ royarchana44@gmail.com

Supervisor(s): Prof. Ravi Shankar and Prof. Shveta Singh

Broad sub-field of Research: Operations Management, Mathematical Modelling, Optimization

Thesis: Study of Select Issues in Operational Planning and Management of Smart Grid in India



Tripti Awasthi

(2017BSZ8035)

✉ tripti12359@gmail.com

Supervisor(s): Prof. Ravi Shankar

Broad sub-field of Research: Agri-food Supply Chain, Sustainability and Risk Management

Thesis: Modeling of Risk for Agri-Food Supply Chain System Sustainability



Jaya

(2017BSZ8497)

✉ jaya.goel.9207@gmail.com

Supervisor(s): Prof. Harshan Jagadeesh

Broad sub-field of Research: Wireless Future Networks, Wireless Security, Multi-Hop Networks, Urllc

Thesis: Optimization of ARQ Allocation For Ultra-Reliable and Low-Latency Communication in Multi-Hop Networks



Nancy Varshney

(2018BSZ8118)

✉ nancyv.ece16@itbhu.ac.in

Supervisor(s): Prof. Swades De

Broad sub-field of Research: Millimeter wave communication, Beamforming, UAV assisted communication and surveillance, Reflecting intelligent surface (RIS) assisted communication

Thesis: Optimal Beamforming Strategies At MMwaves For 5G+ Networks



Monica Bhutani (nee Maggu)

(2018BSZ8123)

✉ monica.bhutani@dbst.iitd.ac.in

Supervisor(s): Prof. Brejesh Lall and Prof. Monika Aggarwal

Broad sub-field of Research: Optical Wireless Communication, Sensor Networks, Visible Light Communication, Li-Fi

Thesis: Medium Access Control Layer Issues In Optical Wireless Communication



Kirti Kant Sharma

(2015BSZ8442)

✉ kirtikant2012@gmail.com

Supervisor(s): Prof. Ranjan Bose

Broad sub-field of Research: Wireless Communication, Physical Layer Security, Cooperative Networks

Thesis: Physical Layer Security in Energy Harvesting Cooperative Networks





Anjali Priya

(2016BLZ8228)

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Supervisor(s): Prof. Archana Chugh

Broad sub-field of Research: Peptide Therapeutics, Drug Delivery

Thesis: Novel Membrane Active Peptides Derived from Marine Organisms and Their Mechanisms of Action



Medha Sharma

(2016BLZ8128)

✉ medhasharma7@gmail.com

Supervisor(s): Prof. Chinmoy Sankar Dey

Broad sub-field of Research: Insulin Signalling

Thesis: Regulation of AKT Isoforms-AS160-GLUT4 Axis By PHLPP and PP1 Isoforms Affecting Neuronal Insulin Signaling and Resistance



Anjali Dixit

(2016BLZ8130)

✉ anjali.dixit27@gmail.com

Supervisor(s): Prof. Bishwajit Kundu

Broad sub-field of Research: Biophysics, Protein Biology

Thesis: Investigating The Biophysical Properties and Aggregation Behaviour Of Optineurin And Its Mutants



Yamini Yadav

(2016BLZ8134)

✉ y4yamini20@gmail.com

Supervisor(s): Prof. Chinmoy Sarkar Dey

Broad sub-field of Research: Insulin Signalling

Thesis: SER/THR Phosphatases PP1Y and PP2CA in Regulating Neuronal Insulin Signaling and Insulin Resistance



Nidhi Chaudhary

(2016BLZ8375)

✉ nidhitevatiya@gmail.com

Supervisor(s): Prof. Ashok Kumar Patel

Broad sub-field of Research: Dengue Virus Pathogenesis, Protein Biology

Thesis: Deciphering the Mechanism of a Host Cellular Factor High Mobility Group Box1 Protein in Dengue Virus Pathogenesis



Chandra Shekhar Kumar

(2016BLZ8372)

✉ cskbs043@gmail.com

Supervisor(s): Prof. Manidipa Banerjee

Broad sub-field of Research: Viral Immunology, Structural and Computational Biology

Thesis: Entry and Assembly of Pathogenic Viruses



Shubham Vashishtha

(2017BLZ8575)

✉ vashishtha.sv05@gmail.com

Supervisor(s): Prof. Biswajit Kundu

Broad sub-field of Research: Protein Biophysics; Drug Discovery; Antimicrobial resistance

Thesis: Exploring the Role of L-Asparaginase and HTPX as Potential Targets Against Neisseria Gonorrhoeae



Upma Dave

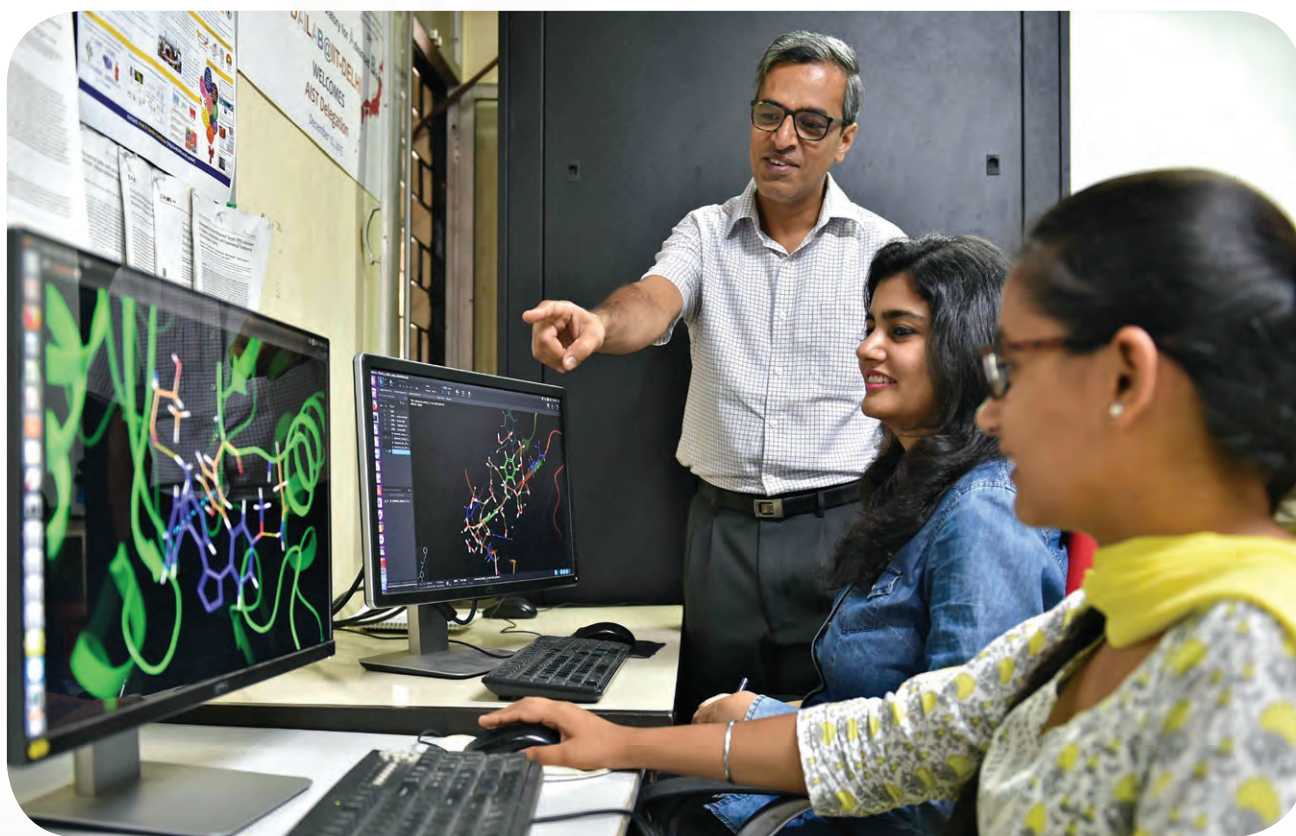
(2016BLZ8129)

✉ daveupma14@gmail.com

Supervisor(s): Prof. Jamesh Gomes

Broad sub-field of Research: Neurodegeneration, protein biophysics, simulation

Thesis: Role of E121K Mutation of D-Amino Acid Oxidase in Amyotrophic Lateral Sclerosis





Alok Kumar Ray

(2018QIZ8618)

✉ N/A

Supervisor(s): Prof. Dibakar Rakshit, Prof. K Ravi Kumar, and Prof. Hal Gurgenci

Broad sub-field of Research: N/A

Thesis: Investigation of High-Temperature Latent Heat Storage Integrated With Supercritical CO₂ Brayton Cycle



Imon Chakraborty

(2019QIZ8454)

✉ N/A

Supervisor(s): Prof. P. Vigneswara Illavarasan and Prof. Sisira Edirippulige

Broad sub-field of Research: N/A

Thesis: Identifying Critical Success Factors for the Health-Tech Startups: An Empirical Study in India & Australia



Chourasia Vallari Ramesh Maneesha

(2018QIZ8614)

✉ N/A

Supervisor(s): Prof. K.K. Pant and Prof. Robert Henry

Broad sub-field of Research: N/A

Thesis: Lignocellulosic Biomass Valorisation Using Deep Eutectic Solvents for Sustainable Biorefineries



Abdullah Bareen Muhammed

(2019QIZ8436)

✉ N/A

Supervisor(s): Prof. J.K. Sahu, Prof. S.N. Naik, Prof. Sangeeta Prakash and Prof. Bhesh Bhandari

Broad sub-field of Research: N/A

Thesis: 3D Printing of Dairy Sweetmeats





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