

# BITScan

## Hyderabad Campus



# BITS Pilani, Hyderabad Campus Celebrates Convocation 2024 with Grandeur



*Delegates of the convocation*

The Birla Institute of Technology and Science (BITS), Pilani, Hyderabad Campus, celebrated its annual convocation ceremony on August 4, 2024. The grand event was held in the campus auditorium, with an atmosphere of pride, excitement, and nostalgia as graduating students marked the culmination of their academic journeys.

This year, the convocation witnessed the presence of an eminent personality as the Chief Guest-Prof. Satish K. Tripathi, President of the University at Buffalo, New York. Prof. Tripathi, a globally recognized academic leader, delivered an inspiring keynote address emphasizing the transformative power of education and the responsibility of graduates to contribute meaningfully to society.



*Vice Chancellor's address*



*Tree Plantation*

Over 1,600 degrees were conferred, including under-graduate, postgraduate, and doctoral awards, making this one of the most significant convocations in the history of the Hyderabad campus. The event was marked by the conferment of numerous Ph.D. degrees, highlighting the institute's commitment to advanced research and innovation.

The BITS Pilani Hyderabad Convocation 2024 was not just an academic ceremony but a celebration of dreams realized and a future envisioned. The event encapsulated the spirit of excellence, resilience, and innovation that BITS Pilani fosters in its students.

This convocation will undoubtedly remain etched in the memories of all who attended as a landmark event celebrating the achievements of the BITS Pilani Hyderabad Campus Class of 2024.



*Chief Guest address*



*Director's address*



*Graduates*



## Confluence of Academic Ideas, Intellect, and Information - (Workshops / Conferences / Symposiums)

### Department of Biological Sciences: Biophysics Meeting at BITS Pilani, Hyderabad

As part of BITS Pilani's 60<sup>th</sup>-anniversary celebrations, a Biophysics Meeting was held on 14 December 2024, bringing together 100 researchers. The event featured 32 short talks, 54 poster presentations, and the establishment of Biophysics Deccan, a biannual research association. Organized by the Department of Biological Sciences with contributions from Prof. Soumyananda Prof. Chakraborti, Prof. Sourav Choudhury, Prof. Bibhas Roy, and Prof. Sudipta Maiti.

### Department of Chemistry: Indo-French Conference on Catalysis for Circular Economy

Held from 24 to 26 October 2024, this IFCPAR/CEFIPRA-supported event featured 27 technical lectures on catalysis, green chemistry, and energy transition. Coordinated by Prof. Sounak Roy and Prof. Pascal Granger (University of Lille, France), the conference fostered Indo-French collaboration on sustainable energy solutions.

### Department of Chemical Engineering: ICON-2024-Industry Connect by Chemical Engineering Department

Organized on 23 November 2024, ICON-2024 featured talks by Mr. D. V. S. Narayana Raju (Deccan Fine Chemicals) and Dr. Himanshu Bansibhai Lashkari (Dr. Reddy's Laboratories), along with poster sessions and industry-student interactions.

### Department of Civil Engineering: E-SCM 2024 Indo-UK Workshop

SMC2E Workshop on Smart Materials focused on next-gen cooling materials for energy efficiency founded by SERB project. The E-SCM 2024 Indo-UK Workshop (13-14 September 2024), co-organized with Heriot-Watt University, UK, under the SPARC project, explored sustainable construction materials.

### TRIAL Webinar: Prof. Prateek Bansal on Synthetic Population Generation

A webinar on Sustainable Mobility featured Prof. Prateek Bansal (NUS) discussing synthetic population modeling and exploring urban transportation challenge.

### Webinar on 'Eco-Warriors or Time Savers? Navigating the Way for Sustainable Mobility in Hyderabad'

The poster is for a free webinar on Saturday, October 19, 2024, from 3 PM to 5 PM (IST). It is organized by BITS Pilani Hyderabad Campus and TRIAL (Transportation Research Innovation Analysis Lab). The topics include: 'Will congestion pricing be a possibility for sustainable smart cities?', 'What motivates Hyderabad residents to adopt Electric Vehicles (EVs)?', and 'What are the challenges to adopt electric bicycles (e-bikes) in Hyderabad?'. The speakers are Prof. Prasant Sahu, Prof. Bandhan Majumdar, and Prof. Ishant Sharma. Registration is free, and the link is provided as https://forms.gle/MP44aGpvaSm95D7f9. Contact information includes trial@hyderabad.bits-pilani.ac.in and a LinkedIn link.

### Department of Computer Science and Information Systems: Arunodaya Workshop on Mental Health Research and Innovation

As part of the SSR initiative under the SERB POWER-funded ARU project, the Department of CSIS hosted 'Arunodaya – Multidisciplinary Approaches for Mental Health Research and Innovation' on 19 October 2024. Faculty from CSIS, HSS, and Biology shared insights on mental health research, while the Mental Health Support Group (MHSG) presented their activities.

### RAISE'24

1<sup>st</sup> International Workshop on Intelligent Systems (30 October 2024) featured six distinguished speakers on AI, robotics, cyber forensics, and deepfake detection.

### Department of Economics and Finance: Monthly Seminar Series by the Department of Economics and Finance

The Department of Economics and Finance at BITS Pilani Hyderabad Campus organised a total of five seminars/invited talks during this period. The semester began with two seminars by faculty members of the department, Prof. Muhammed Sajid N and Prof. Paras Sachdeva.

In September, the department hosted a seminar by Prof. Jeena T Srinivasan, Associate Professor at CESS, Hyderabad, followed by another in October featuring Prof. Soumyananda Dinda from the University of Burdwan. Additionally, an invited talk was delivered by Prof. Dr. GVR Shastri, Chairman of Coastal India Development Council (CIDC), in September.

### **Department of Humanities and Social Sciences: Interdisciplinary Workshop on Defining and mapping Social-Ecological System and Institutional Frameworks**

An Interdisciplinary Workshop on Defining and Mapping Social-Ecological Systems and Institutional Frameworks was conducted on 18-19 December 2024. Part of the FES-supported project 'Mapping Institutions, Rules, and Norms Defining Commons,' the workshop fostered interdisciplinary collaboration among experts from BITS Hyderabad, ATREE, TISS, Shiv Nadar University, XLRI, APU, and FES.

### **International Conference on Sustainable Urban Water Management 2024**

The International Conference on Sustainable Urban Water Management 2024 was organized on 15 December, 2024. The conference addressed sustainable urban water management techniques, including water resource management, water treatment technologies, and climate resilience strategies for urban areas.

### **Department of Mechanical Engineering: Robotic Welding training program**

The Department of Mechanical Engineering organized a specialized training program on Robotic Welding at the Central Workshop on 21 and 22 August 2024. The program featured hands-on sessions with advanced welding technologies, enabling participants to enhance their technical expertise in automation and precision welding.

### **Advanced Driver Assistance Systems (ADAS)**

The Department of Mechanical Engineering, in collaboration with the Work Integrated Learning Programmes (WILP) team, successfully organized a two-day certification program on Advanced Driver Assistance Systems (ADAS) for students on campus.

### **Workshop on Smart Building Materials for Comfort Cooling**

A two-day workshop on 'Smart Building Materials for Comfort Cooling and Energy Storage' was held on 14 - 15 September 2024, jointly organized by the Departments of Mechanical and Civil Engineering and CSIR-Structural Engineering Research Unit.

### **Workshop on Renewable Energy Awareness for Educators (REAE2)**

On 14 December 2024, the Department of Mechanical Engineering, in collaboration with TGREDCO, Hyderabad, and CRENS, organized a one-day workshop on Renewable Energy Awareness for Empowering Educators (REAE2).

### **Workshop on Micro and Nano Fabrication**

As part of Scientific Social Responsibility (SSR), the Department of Mechanical Engineering conducted a hands-on workshop for aspiring researchers, engineering graduates, and young professionals interested in advanced micro and nano fabrication techniques.

### **Young Researchers Conclave and Workshop**

The Department of Mechanical Engineering successfully hosted the Young Researchers Conclave and workshop for aspiring researchers and graduates. The event aimed to inspire participants to explore advanced research opportunities.

### **Department of Pharmacy: International Symposium cum Workshop on Translational Therapies for Cancer and Infections (TTCI-2024)**

The International Symposium and Workshop on Translational Therapies for Cancer and Infections (TTCI-2024) was hosted on 22-24 July 2024. This event focused on the latest research and therapies for cancer and infections.

### **Department of Physics: Symposium on Trends in Emerging Physics (STEP – 2024)**

The Symposium on Trends in Emerging Physics (STEP – 2024) was hosted on 9 August 2024. The event focused on recent developments in various areas of physics, showcasing the research work of department scholars.

## International Conference / Seminar / Workshop

### Department of Biological Sciences

- Prof. Sudipta Maiti presented a lecture on 'The lipid membrane as a receptor for neurotransmitter signaling' at the German Biophysical Society Meeting, Leipzig, Germany from 22 to 25 September 2024.
- Prof. Nishith Gupta presented at:
  - At the International Symposium on Parasitology held at Huazhong Agricultural University, China from 1 to 4 July 2024, on 'Cyclic nucleotide signaling in *Toxoplasma gondii*'.
  - At Westlake University on 7 July and at the Excellence in Molecular Plant Sciences Conference, Shanghai, China, on 9 July 2024, on 'Metabolic basis of Intracellular Parasitism'.
  - At the College of Veterinary Medicine, China Agricultural University, China, on 11 July 2024, on 'Membrane Biogenesis in *Toxoplasma gondii*'.
  - At the International Congress for Tropical Medicine and Malaria in Kuala Lumpur, Malaysia, from 19 to 23 September 2024 on 'Phospholipid-mediated regulation of calcium homeostasis and lytic cycle in *Toxoplasma gondii*'.
  - At Southern Medical University, Guangzhou, China, on 26 November 2024, on 'Molecular determinants of intracellular infection'.

### Department of Chemistry

- Prof. Sounak Roy presented at:
  - At HETCAT 2024, The Maharaja Sayajirao University of Baroda from 4 to 5 October 2024 on 'Factors Influencing Anodic Oxidation Reaction'.
  - At the National Seminar on Circular Chemistry, Christ University, from 14 to 15 October 2024 on 'From Trash to Treasure: A Tale of Anthropogenic Carbon Neutral Cycle'.
  - At ISMC-2024, BARC, Mumbai, from 4-6 December 2024 on 'Sustainability Through Catalysis'.
  - At the Chemistry Catalysis Conference 3.0, IIT Gandhinagar from 7 to 8 December 2024 on 'Descriptors in Anodic Oxidation Reactions'.
- Prof. B.M. Reddy presented at:
  - At ICSTAR 2024, CSIR-NIIST & REAI, Trivandrum, on 22 August 2024 on 'Nanosized Cerium Oxide Catalysts for Energy and Environmental Applications'.

- At the Indo-French Conference, BITS Pilani Hyderabad, on 24 October 2024 on 'Chemistry and Catalytic Applications of Cerium Oxide'.
- Prof. Subit Kumar Saha presented a paper on 'Micellar Hybrid Nanocarrier for Light-Responsive Cancer Drug Delivery' and chaired sessions at the 12<sup>th</sup> Liquid Matter Conference from 22 to 27 September 2024, at Johannes Gutenberg University Mainz & Max Planck Institute for Polymer Research, Germany .

### Department of Chemical Engineering

- Prof. Arnab Dutta presented a lecture on 'Computer-aided design of therapeutic peptides to combat antimicrobial resistance' at the 11<sup>th</sup> Asian Symposium on Process Systems Engineering, PSE-ASIA 2024, in Penang, Malaysia, from 5 to 8 August, 2024.
- Prof. Debirupa Mitra presented a lecture on 'Dextran and its Derivatives as Fouling-resistant Polymers for Surface Modification of Cotton Gauze' at the International Conference on Polymers for Advanced Technology in Jaipur, India, from 16 to 18 October, 2024.
- Prof. Shambojit Roy presented at:
  - At CompFLU - 2024 at IIT Hyderabad, India, from 16 to 18 December 2024 on '3D in vitro pancreatic tumor models for studying T cell migration'.
  - At the International Conference on Frontiers in Nanomaterials Sciences at NIT Patna, India, from 21 to 23 December 2024 on 'Therapeutic proteins conjugated to upconversion nanoparticles for improved therapy against in vivo colorectal cancer'.

### Department of Civil Engineering

- Prof. Raghu Piska presented at the 27<sup>th</sup> International Conference on Composite Structures at the School of Engineering and Architecture, University of Bologna, Italy, on 03 September, 2024.
- Prof. Prasanta K. Sahu presented an invited talk titled 'Adoption Intentions towards Emerging Aerial Ropeway Transit: Mediating Roles of Multimodal Modality Styles and Attitudinal Differences' at the IATBR - 17<sup>th</sup> International Conference on Travel Behavior Research in Vienna, Austria, from 14 to 18 July 2024.
- Prof. A. Vasana presented at the 2-Day International Workshop on Design and Implementation of Smart Water Systems at IIT Kanpur on 03 September, 2024.

- Prof. Akshay Gundla presented at the 83<sup>rd</sup> IRC Annual Session, a premier gathering for researchers and practitioners in Pavement Engineering and Bituminous Materials, in Raipur, Chhattisgarh, from 08-11 November, 2024.
- Prof. Sridhar Raju presented at the 83<sup>rd</sup> IRC Annual Session, a premier gathering for researchers and practitioners in Pavement Engineering and Bituminous Materials, in Raipur, Chhattisgarh, from 08 to 11 November 2024.
- Prof. Bandhan Bandhu Majumder presented a poster at the South Asia Cycles event, University of Chicago Centre in Delhi from 22-23 November 2024 and at the 15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries at IIT Bombay from 18 to 20 December 2024, on 'Electric Bicycle (E-Bike) Adoption in India: Drivers, Barriers, and Way Forward'

## Department of Computer Science and Information Systems

- Prof. Nikumani Choudhury presented a paper on 'POSTER: Quick Convergence of ADR Mechanism in Dense & Dynamic LoRa-based IoT Networks' at ACM Mobihoc 2024, Athens, Greece from 13 to 19 October, 2024.
- Prof. Paresh Saxena attended the Providence LEAP Faculty Symposium, Hyderabad, from 27- 28 November 2024, and the Globecom 2024 at Cape Town, South Africa, from 8 to 12 December 2024.
- Prof. Manik Gupta was a panelist at ACM-W India Celebrations, CRIO, Chitkara University, Chandigarh on 30 November, 2024.
- Prof. Manik Gupta, Prof. Prajna Upadhyay, and Prof. Dipanjan Chakraborty attended IndoML 2024 at BITS Goa from 21 to 23 December, 2024.
- Prof. Prajna Upadhyay presented a paper titled 'LeGen: Complex Information Extraction from Legal Sentences using Generative Models' at EMNLP 2024, Miami, USA on 16 November, 2024.
- Prof. Abhijit Das visited ICPR, Kolkata, from 1 to 5 December 2024 for a talk on 'Tense of Learning Representation for Multimodal and Crossmodal Modelling'.

## Department of Economics and Finance

- Prof. Shreya Biswas presented at
  - At the 32<sup>nd</sup> International Conference of Agricultural Economists, NASC Complex, New Delhi from 2 to 7 August 2024 and at the 34<sup>th</sup> Annual General Conference on Contemporary Issues in Development Economics, IGIDR, Mumbai from 17 to 19 December 2024 on Growing through greener pastures: Effect of educated politicians on forest cover growth in India.
  - At the Conference on Reflections on Development Economics at Presidency University, Kolkata on 27 December 2024 on 'Does better health-seeking behavior lead to better health outcomes?'
- Prof. Nivedita Sinha presented 'The Dynamics of Share Pledging and Stock Price Crashes: Evidence from Indian Market' at ICBOxford'2024, University of Oxford (online) from 21 to 22 November 2024. She also presented 'Share Pledging, Firm Value and Business Groups' at ISAFE2024, Kasetsart University, Pattaya, Thailand from 08 to 10 July, 2024.
- Prof. Sravani Bharandev presented 'Is IPO underpricing real?' at the conference on 'Leveraging Emerging Technologies and Analytics for Development', IIM Shillong from 09 to 11 December 2024.

## Department of Electrical and Electronics Engineering

- Prof. Parikshit Sahatiya presented a poster at IEEE FLEPS-2024 held in Finland from 30 June to 03 July 2024 and also delivered a presentation on '2D Material Based Electronic, Optoelectric & Neuromorphic Device' at the 2<sup>nd</sup> ICLED-2024 held at the National University of Singapore, Singapore, from 01 to 04 August 2024.
- Prof. Soumya J presented a paper at IEEE CAS-ISVLSI 2024, organized by the IEEE Computer Society, in Tennessee, USA, from 01 to 03 July 2024.
- Prof. Parikshit Sahatiya and Prof. STP Srinivas participated in IEEE Powercon-2024, organized by IEEE PES, in Nepal, from 04 to 06 November 2024, to gain research exposure.
- Prof. Joyjit Mukherjee presented a paper at IEEE TENCON-2024, organized by IEEE Singapore, from 01 to 04 December, 2024.

- Prof. Niranjana Raj presented a paper at MoSICom 2024, jointly organized by IEEE UAE and BITS Pilani, Dubai Campus, held at BITS Pilani, Dubai Campus, from 09 to 11 December 2024.

### Department of Humanities and Social Sciences

- Prof. Lavanya Suresh presented 'A Transgender Logic of Collective Action' at the 2<sup>nd</sup> International Trans Studies Conference, Northwestern University, USA from 04 to 07 September 2024.
- Prof. M.G. Prasuna presented 'Mapping the Relevance of Dickens to Hindi Cinema: A Study of Indian Cinematic Adaptation of Great Expectations' at the 29<sup>th</sup> Annual Dickens Society Symposium, University of Birmingham, UK from 15 to 18 July 2024.
- Prof. Suchismita Satpathy presented at
  - At the University of London and RC21 2024 Conference, Chile University, Santiago from 24 to 26 July 2024 on 'Factors detrimental to citizens' willingness to participate in water governance'.
  - At the International Urban Symposium, Tuscany, Italy from 20 to 28 July 2024 on 'Heterogeneous Infrastructure Configurations: An Ethnographic Exploration of Water Kiosks in Visakhapatnam, India'.
- Prof. Krishnanunni Hari presented 'Productions of Ketti-azhikkal: The Case of Elephant Captivity in Kerala' at the International Conference on Urban Animals in the Age of Extinction, FLAME University, Pune on 28 August 2024.
- Prof. Aleena Khan presented 'AI Integration in Online Interaction: How AI Can Make Learner Communities More Independent' at the AI, Educational Communication, and Media Transformations Seminar, EFLU from 28 to 30 November, 2024. She also presented 'ChatGPT4 for Classroom Task Adaptation: An Experimental Study of Material Customization through Student Data Sets' at the Pixel International Conference, Florence on 06 November 2024.

### Department of Mathematics

- Prof. B. Mishra presented at
  - At ISGCA-2024, Bauman Moscow State Technical University, Moscow, from 1 to 8 July 2024 on 'Derivations of  $f(Q)$  gravity field equations with coincident and non-coincident gauge'.

- At IJMCG, Universidad de Tarapaca, Chile (online), from 15 to 18 October 2024 on 'Cosmology in modified  $f(G)$  gravity: A late-time cosmic phenomena'.
- At the National Workshop on Recent Developments in Mathematics, SRTM University, Nanded, on 21 October 2024 on 'Overview of cosmological model in symmetric teleparallel gravity'.
- At WMMCDs-24, Woxsen University, Hyderabad, from 25-29 October 2024 on 'Cosmological model with Gauss-Bonnet invariant to address late-time cosmic phenomena'.
- At NCMIA-2024, S.V. University, Tirupati, from 22-23 December 2024 on 'Geometrical approach to address late-time cosmic acceleration'.

### Department of Physics

- Prof. Sarmistha Banik presented 'Effect of hadron-quark phase transition on Neutron star f-mode Oscillations' at QNP 2024, University of Barcelona, Spain from 08 to 12 July, 2024, and 'Neutron star f-mode Oscillations in general relativistic calculations' at NEOSGrav2024, IUCAA, Goa from 01 to 02 October 2024).
- Prof. Tanay Nag presented at
  - At MeetStatphys 2024, IIT Kharagpur, from 1 to 3 July 2024 on 'Periodic and aperiodic dynamics of quantum kicked rotor'.
  - At IOP Bhubaneswar, from 21 to 23 August 2024, and at the University of Hyderabad on 30 September 2024 on 'Anomalies in dynamical quantum phase transitions'.
  - At the Young Investigator's Meet 2024, IISER Pune, from 15 to 17 Dec 2024 on 'Exotic phases in models with long-range hopping and on-site disorder'.
- Prof. Subhadeep Roy presented 'Disorder-induced non-linear growth of fingers in immiscible two-phase flow' at CompFLu 2024, IIT Hyderabad from 16 to 18 December 2024.
- Prof. Meenakshi V & Prof. R. Aravinda Narayanan presented 'Altering Flow Topology by Tuning Blockage Ratio', 'Saffman-Taylor Instability in Patterned Channels', and 'Insights on Chaotic Micromixing' at CompFLu 2024, IIT Hyderabad from 16 to 18 December 2024.
- Prof. R. Aravinda Narayanan also presented 'Signatures of metastable complex fluid in Xanthan gum solutions' at CompFLu 2024, IIT Hyderabad from 16 to 18 December 2024, and 'Nonlinear viscoelasticity of fungal biofilms' at



BBC-2024, IGCAR, Kalpakkam from 12 to 14 December 2024).

- Prof. Suvadip Das presented 'Quantum phenomenon in novel 2D materials' at Engineered 2D Quantum Materials Conference, ICTS Bengaluru from 15 to 26 July 2024, and delivered a colloquium on 'Novel aspects of quantum phenomenon and applications' at TIFR Hyderabad on 06 December 2024).

## Faculty Awards

### Department of Biological Sciences

- Prof. P. Sankar Ganesh received the 'Excellence in Waste Management and Environmental Impact Award' from K S Rangasamy College of Technology, Tiruchengode, Namakkal, Tamil Nadu, on 05 September 2024.
- Prof. P. Sankar Ganesh served as a judge for the QS Reimagine Education Awards and Conference 2024, held at the QEII Centre, Westminster, London, UK, on 09 December 2024.
- Prof. Nishith Gupta received the 'IGSTC-WISER Award' under the Indo-German Science and Technology Cooperation (IGSTC) program on 19 September 2024. The award was granted to Ute Distler, a German Women Scientist, with iPEARL as the host institution.
- Prof. Sourav Chowdhury was recognized as a Long-Term Associate with the Department of Chemistry and Chemical Biology, Harvard University, and as an Associate Fellow and Affiliate Faculty of the Harvard Program in Therapeutic Sciences, Harvard Medical School, in 2024.

### Department of Chemistry

- Prof. Sounak Roy received the Society for Materials Chemistry Bronze Medal from the Society for Materials Chemistry, BARC on 05 December 2024.
- Prof. Sounak Roy was awarded the Visiting International Professor Fellowship by Ruhr-Universität Bochum (RUB), Germany in September 2024.
- Prof. K. V. G. Chandra Sekhar received the Talented Young Scientist award from the Association of Biotechnology and Pharmacy on 19 December 2024.
- Prof. Tanmay Chatterjee was recognized as an Emerging Investigator: 2024 by the prestigious journal Chemical Communications, published by the Royal Society of Chemistry, on 07 October 2024.

- Prof. Jayanty Subbalakshmi was honored as an Outstanding Researcher in Molecular Materials in Science Discipline by the Venus International Foundation on 07 December 2024.

### Department of Civil Engineering

- Prof. Bandhan Bandhu Majumder received the Subject Award from the 39<sup>th</sup> Indian Engineering Congress from 20 to 22 December 2024.
- Prof. Arkamitra Kar received the Subject Award from the 39<sup>th</sup> Indian Engineering Congress from 20 to 22 December 2024.

### Department of Computer Sciences and Information Systems

- Prof. Jay Dave and Prof. Nikumani Choudhury received the Best Paper Award from IEEE SINCONF 24 in December 2024.
- Prof. Nikumani Choudhury received the Best Paper Award from IEEE WoWMoM 2024 in June.
- Prof. Barsha Mitra received the Google Cloud Research Credits Award from Google Cloud Research for developing an Obfuscation Resilient Malware Analyzer in October 2024.

### Department of Mathematics

- Prof. P. K. Sahoo was recognized as one of the Top 2% Scientists of the World in Nuclear & Particle Physics according to a survey by Stanford University, USA, on 16 September 2024.

### Department of Mechanical Engineering

- Prof. Srinivasa Prakash Regalla received the 'Innovative Sakalang Sukhfit Award' from the SIDVI Foundation in September 2024 for his pioneering work on 3D-printed below-knee prostheses.

### Department of Pharmacy

- Prof. Swati Biswas was also appointed as a Member of the Board of Studies for Pharmaceutical Sciences at SVKM's NMIMS, Mumbai, and became an Editorial Board Member for Scientific Reports in 2024.



## Department of Physics

- Prof. Tanay Nag was recognized as a Top 2% Scientist by Stanford University, Elsevier Data Repository in September 2024.
- Prof. Suvadip Das was appointed as Affiliate Faculty at George Mason University, Virginia, USA in November 2024.

## Student Awards/Achievements

### Department of Biological Sciences

- Syamala Diwakaruni received the Best Poster Presentation Award for 'Biological Treatment of Municipal Solid Waste Landfill Leachate' from the Special Centre for Nanoscience, JNU, New Delhi, on 13 December 2024.
- Vaishali Kumar received the Dr. G.M. Taori Young Scientist Award 2024 for her oral presentation on 'Vitamin D ameliorates mitochondrial dysfunction in Huntington's disease' at the 38<sup>th</sup> Annual Meeting of Society for Neurochemistry (India) on 28 November 2024.
- Kodam Pradeep received the Young Scientist Award for Best Poster Presentation for 'Integrated multi-omics and meta-analysis reveal molecular signatures in Alzheimer's and Huntington's disease' at the National Conference on Omics in Redefining Healthcare on 23 August 2024.
- Jayasree PJ received the Best Oral Presentation Award (Life Sciences) at NBRCOM 2024 for 'Tumor suppressive role of m6A eraser proteins in Oral Squamous Cell Carcinoma' from 01 to 03 December 2024.
- Maddipatla Naga Sai Karthik received the Best Poster Presentation Award at AAR 2024 for 'Valorization of anaerobic digestate for enhanced biomass production in Chlorella sorokiniana' on 18 December 2024.
- Namita Pandey received the Best Poster Presentation Award for 'Phospholipase in Toxoplasma gondii' at the National Congress of Parasitology from 03 to 05 October 2024.

- Keith Handerson received the International Travel Award from the International Congress for Tropical Medicine and Malaria for 'Neuronal determinants of Toxoplasma infection' from 19 to 23 September 2024.

### Department of Chemistry

- Krishna Priyanka received the Best Poster Award from the Indian Nuclear Society - Atomic Minerals Directorate, BARC, Hyderabad for the paper titled 'Polyethyleneimine modified titanium nano rods for recovery of Lithium' at the International Symposium on Challenges and Advancements in Materials Characterization on 22 November 2024.
- Dyagala Shalini received the Best Poster Award at the International Symposium cum Workshop on Translational Therapies for Cancer and Infections (TTCI-2024), organized by the Department of Pharmacy, BITS Pilani, Hyderabad Campus in association with the SPARC (Scheme for Promotion of Academic and Research Collaboration) from 22 to 24 July 2024.
- Dyagala Shalini received the Best Poster Award at Vidwanotsav-2024, organized by BITS Pilani, Hyderabad Campus from 08 to 13 July 2024.

### Department of Chemical Engineering

- Soumya Mattupalli received the Best Poster Award at Vidwanotsav 2024 on 13 July 2024 and the Best Oral Presentation at CHEMCON 2024 for 'Cassie to Wenzel transition during evaporation on biomimetic surfaces' on 30 December 2024.
- Kanav Dang won the Students Entrepreneurs Encouragement Program (SEEP 2.0) from BITS Pilani, Hyderabad Campus TBI Society for his start-up idea on a dryer for additive manufacturing on 16 October 2024.
- Atmaja Shinde received the Best Poster Award at the National Conference on Catalysis for Energy, Environment, and Sustainability (CEES) for 'Mechanistic insights for CO<sub>2</sub> hydrogenation' on 18 September 2024.

### Department of Economics & Finance

- Tanaji Pavani Prabha received the First Prize for Poster Presentation at BITS Pilani, Hyderabad Campus in July 2024 and the Best Paper Award at ICRIMSD-2024, O.P. Jindal University, in October 2024.

- K Vasumathi received a Certificate of Appreciation from the University of Oxford for presenting 'Innovative Solutions for Delivering Financial Services to Grassroot Women Entrepreneurs in India' at ICBTOxford'2024 on 30 November 2024.

### Department of Mechanical Engineering

- Abhishesh Pal received the 'Gandhian Young Technological Innovation (GYTI) Award' from the Society for Research and Initiatives for Sustainable Technologies and Institutions in September 2024.

### Department of Pharmacy

- Rupal Kothari received the DST INSPIRE Senior Research Fellowship on 17 October 2024.
- Vishal Raval won the Best e-poster Award at ISOO, Goa, and the Best Physical Poster Award at VRSI, Guwahati, both in December 2024, and received the APVRS LDP Program Certificate in November 2024.
- Raj Girish Savla received the Junior Research Fellowship from the Lady Tata Memorial Trust in December 2024.
- Darakhshan Begum received the LTMT Junior Research Fellowship (JRF) on 05 October 2024.

### Department of Physics

- Anamika Avinash Pathak received the International Travel Support from Anusandhan National Research Foundation (ANRF), DST-SERB for participating in the conference 'Black Holes Inside and Out,' Copenhagen, Denmark, on 18 July 2024.
- Anagh Venneti received the International Travel Support from Anusandhan National Research Foundation (ANRF), DST-SERB for participating in the conference 'Nuclear Physics in Astrophysics XI' held at TU Dresden, Germany, on 30 July 2024.
- Sreeshna S received the Best Poster Award from IIT Kharagpur for presenting a poster at the 16<sup>th</sup> International Conference on Fiber Optics and Photonics - 2024 on 15 December 2024.
- Greeshma Gopinath received the Best Oral Presentation Award from CSIR-CSIO Chandigarh & OSI at the XLVII OSI Symposium - International Conference on Advances in Optics & Photonics Instrumentation (OPTOIn-2024) on 25 October 2024.

## International Programmes and Collaboration Division (IPCD)

- IPCD hosted a virtual information session with DAAD Chennai on 13 September 2024 titled 'Study and Research in Germany.' The session provided students with insights into study and research opportunities in Germany.
- IPCD organized an information session by Ms. Mirrin Raikhan, Campus France Manager, on 29 September 2024 titled 'Learn about Higher Education, Admission Process, Scholarships, and Visa Opportunities in France.'
- Prof. Igor V. Fomin from Bauman Moscow State Technical University, Moscow, Russia, from 01 to 07 November 2024. He delivered a talk titled 'Space-Time Civilization (STC 2024)' on 06 November 2024.
- IPCD conducted an information session titled 'Higher Education in Europe' on 23 November 2024, delivered by Ms. Madhavi Mauskar Kharshikar, Director of the South Western European Corridor (SWEC).

## Institution's Innovation Cell (IIC)

- The Ministry of Education's Innovation Cell organized an activity titled 'Guiding Framework for Creating and Engaging Trained Faculty and Student IIC Members as Innovation Ambassadors (IA) in IIC Institutions, along with Rewarding Mechanisms for IAs' on 29 July 2024.
- On behalf of CREST and IIC, Mr. Anand Ramamoorthy (Vice President and Managing Director, Micron India) delivered a talk titled 'AI Revolution: Semiconductor Industry is Transforming the World' on 24 July 2024.
- The Department of EEE, in collaboration with the IIC, hosted an event titled 'Fostering Innovation through Collaboration: Strategic Frameworks and Brainstorming Sessions in Power Electronics and Power Systems' on 31 July 2024.
- The Technology Business Incubator (TBI), in collaboration with the IIC, hosted an event titled 'From Concept to Market: Leveraging the Minimum Viable Product Strategy for Entrepreneurial Success' on 07 August 2024.
- The event titled 'Leveraging AI for Societal Impact: From Concept to Commercialization' was held on 18 August 2024. It aimed to empower student innovators to utilize AI for driving global positive change.

- On 21 August 2024, the Institution's Innovation Council, in collaboration with the Technology Business Incubator Society (TBIS), organized 'World Entrepreneurs Day: Opportunities for Innovative Entrepreneurs in India – Perspective of Ecosystem Enablers.'
- TBI and IIC conducted an event titled 'Opportunities of Angel Investment / Venture Capital Funding for Early-Stage Investors' on 28 August 2024. The event featured Mr. Appalla Sai Kiran and aimed to empower youth entrepreneurship through innovation and mentorship.
- 'Innovation and Entrepreneurship Outreach Program by BITS Pilani Students' was held on 29 August 2024. The event aimed to foster entrepreneurial mindsets by engaging BITS Pilani students with school children.
- The Department of Biological Sciences, in collaboration with the IIC, organized a seminar titled 'Discovering the Next Drug from Space: The Future is Here', delivered by Mr. Jibin Jeffrey Dhanaraj (Chief Technology Officer, ResearchSat, and CEO, RSat Labs) on 04 September 2024.
- The Ministry of Education Innovation Cell (MIC) hosted the 'Inauguration of Innovation, Design, and Entrepreneurship Bootcamp (IDE) Second Edition Phase-I' on 23 September 2024. Inaugurated by Prof. T. G. Sitharam (Chairman, AICTE), the event was broadcasted live on YouTube and included expert talks, workshops, and interactive sessions to equip students with entrepreneurial skills.
- 'Institution's Innovation Day' was celebrated on 15 October 2024 to mark Dr. A. P. J. Abdul Kalam's 93<sup>rd</sup> Birth Anniversary.
- The Department of Biological Sciences and IIC jointly organized the SYNAPSIS lecture titled 'Flying and Muscling through Biology' on 19 October 2024. Delivered by Dr. Dhananjay Chaturvedi (DBT Wellcome Trust Intermediate Fellow and Assistant Professor, CSIR-CCMB, Hyderabad), the session explored the convergence of physical and chemical principles in biology, muscle repair, and the influence of environmental factors on development.
- On 24 October 2024, the Innovation Cell conducted a Python Workshop for 60 students, focusing on foundational programming skills essential for advanced DevOps applications.
- E-Cell organized 'Management Temptation 2024' on 05-06 November 2024. The event provided hands-on business management experience, challenging students

to manage popular campus food outlets like Yumpies, Hotspot, SFC, and C3, competing to maximize sales and showcasing entrepreneurial and strategic skills.

- The Tech Expo 2024 was held on 08 November 2024, featuring 13 shortlisted teams presenting innovative projects.

## Technology Business Incubator

### Hakimpet Airforce TETTRA Unit Visit to TBI

On July 18 2024, a team from the Hakimpet Airforce TETTRA Unit visited to explore research and innovation opportunities. The visit included interactions with TBI and startups working in space technology and drone innovation.

### Celebrating 'World Entrepreneurs Day' Panel Discussion on 'Opportunity for innovative entrepreneurs in India – Perspective of ecosystem enablers'

On August 21, 2024, TBI, BITS Pilani Hyderabad Campus, celebrated World Entrepreneurs Day with a panel discussion on 'Opportunities for Innovative Entrepreneurs in India – Perspective of Ecosystem Enablers.'

### 'IGNITE Bootcamp' by Wadhvani Foundation

The 'IGNITE Bootcamp' was conducted in collaboration with the Wadhvani Foundation. The three-day program aimed to provide participants with a comprehensive understanding of the entrepreneurial journey, covering crucial aspects from idea generation to business development.

### SEEP 2.0

TBI organized annual flagship event called Student Entrepreneurs Encouragement Program (SEEP) to identify and encourage promising student innovators of the campus.

### Interactive Session: 'From Concept to Market: Leveraging the Minimum Viable Product (MVP) Strategy for Entrepreneurial Success'

Prof. Nakul Parameswar, Assistant Professor and Head of the Department of Entrepreneurship and Management at IIT Hyderabad, delivered an insightful session at the Technology Business Incubator (TBI), BITS Pilani, Hyderabad Campus. The talk, titled 'From Concept to Market: Leveraging the Minimum Viable Product (MVP) Strategy



for Entrepreneurial Success,' focused on guiding aspiring entrepreneurs through the process of refining their ideas and effectively bringing them to market.

### Opportunities in Angel Investment and Venture Capital Funding:

The Technology Business Incubator (TBI), hosted an insightful session on 'Opportunities in Angel Investment and Venture Capital Funding for Early-Stage Investors,' delivered by Mr. Appalla Sai Kiran, Founder and CEO of SCOPE.

## Invited Lectures by Faculty

### Department of Biological Sciences

- Prof. Pragya Komal delivered a lecture on nutraceuticals and mental health at Arunodaya (BITS Pilani, Hyderabad) on 19 October 2024 and an invited talk on Vitamin D3 in neurological disorders at IIPS on 20 September 2024.
- Prof. P. Sankar Ganesh conducted training on Bio Energy and presented on waste management at Kalinga University on 18 December 2024. He also delivered a lecture on biomethanation at BITS Pilani, Hyderabad on 14 December 2024, and presented on biogas optimization at JNU, New Delhi on 23 November 2024.
- Prof. Amartya Sanyal delivered an invited talk on chromatin organization and gene regulation and conducted a hands-on session on Hi-C at ICTS, TIFR, Bengaluru on 12 September 2024.
- Prof. Nishith Gupta participated in the Indian Congress on Parasitology at IISER, Pune from 03 to 05 October 2024.
- Prof. Soumyananda Chakraborti participated in SBC Conference-2024 (MS University, Vadodara), SFRR-INDIA-DISCOVER-2024 (B.A.R.C., Mumbai), the VIT-Vellore Workshop-2024 (Online), and the Structural Biology and Discovery-2024 conference (SRM, Chennai).
- Prof. Souarv Chowdhury delivered a talk at the 'From Molecules to Models' workshop and conference at VIT Vellore on 08 November 2024.

### Department of Chemistry

- Prof. K. V. G. Chandra Sekhar delivered a talk on nitrogenic heterocycles in quorum sensing inhibition at the 18<sup>th</sup> ABP Convention & International Conference, Mangalayatan University on 20 December 2024.

- Prof. B. M. Reddy participated in ICSTAR 2024 (CSIR-NIIST, Trivandrum) on 22 October 2024 and attended the Indo-French Conference at BITS Pilani, Hyderabad on 24 October 2024.
- Prof. Manab Chakravarty delivered a talk on styrylpyrillium salts in biological amine detection at IIT Bombay from 18 to 21 November 2024.
- Prof. N. Rajesh lectured on sustainable materials for pollutant removal at the International Symposium at AMD, BARC, Hyderabad on 22 November 2024.
- Prof. Tanmay Chatterjee spoke on green synthesis of alkenes at MAGSOS-2024, Shiv Nadar University from 26 to 29 November 2024.
- Prof. Jayanty Subbalakshmi delivered a lecture and conducted a workshop on materials characterization at MREC on 03 July 2024.

### Department of Civil Engineering

- Prof. Prasanta K. Sahu delivered talks on congestion alleviation at IIT Kanpur on 03 October 2024 and freight traffic analysis at IIT Bombay on 05 August 2024.
- Prof. Raghuram Ammavajjala delivered talks on unsaturated soil slopes at Vardhaman College on 25 October 2024, geosynthetics at NIT Rourkela on 17 July 2024, and risk in geotechnical engineering at CBIT Hyderabad 16 July 2024. He also conducted a session on soil testing at ESCI Hyderabad on 06 August 2024.

### Department of Computer Science and Information Systems

- Prof. Rajib R Maiti delivered a talk titled 'Navigating Cyber Security in the Age of GenAI' at ISB, Hyderabad, I-Venture@ISB on 26 November 2024.
- Prof. Madireddy Raghunath Reddy delivered a talk titled 'Introduction to Data Structures' at Vasavi College of Engineering on 27 November 2024.
- Prof. Subhrakanta Panda delivered a talk on 'Multi-Factor Authentication Approach for Multi-Cloud Computing Systems' at RTST-2024, NIT Warangal on 01 December 2024.
- Prof. Aneesh Chivukula delivered a session on 'Quantum Machine Learning' at the AICTE-Online ATAL FDP 2024-25 on 14 December 2024.
- Prof. Abhijit Das delivered a talk on 'Multi-and Cross-Modal Information for Enhanced Pattern Recognition' at MCMi 2024 on 01 December 2024.

- Prof. Prajna Upadhyay delivered a talk on 'Making Sense of Complex Data - Tools for Summarization and Accessible Knowledge' at the College of Engineering and Computer Science, University of Central Florida, USA on 18 November 2024.

### Department of Economics & Finance

- Prof. Sudatta Banerjee delivered a lecture on 'Gender and Development' at BITS Pilani, Dubai Campus on 19 July 2024.
- Prof. Sudatta Banerjee presented a talk titled 'Do Empowered Mothers Positively Influence Cognitive-achievement of Children in Rural India?' at the International Conference on Economics and Finance Research, Dubai from 14 to 15 July 2024.
- Prof. Rishi Kumar conducted a workshop on 'Measurement of Poverty and Inequality using Large Data Sets' at TISS Hyderabad on 19 November 2025.

### Department of Electrical and Electronics Engineering

- Prof. Subhanshu Gupta delivered a talk on 'Integrated Sensing and Communication at the Network Edge with Fast Insights' at Washington State University on 16 October 2024.
- Prof. Suddhasattwa Nad presented a session titled 'Semiconductor Manufacturing and Packaging: An Innovator's Journey' at Intel Co., USA, on 05 November 2024.
- Prof. Satish Sharma gave a lecture on 'Design and Development of Flat Panel Phased Array Antennas' at San Diego State University on 11 December 2024.
- Prof. Dinesh Kumar presented on 'Harmonic Challenges in Existing and Future Grids: Reflection from International Harmonic Standardizations' at Danfoss Drives A/S, Denmark, on 16 December 2024.

### Department of Humanities & Social Sciences

- Prof. Lavanya Suresh delivered a lecture on 'Winter School on Commoning the Commons' at IIT Bhilai on 10 December 2024 and ecofeminism at the National Workshop on 'Gender Equality for Inclusive Development' at Visva-Bharati on 26 July 2024. She participated in Commons Convening at Dr. Ambedkar International Centre, New Delhi from 27 to 29 October 2024.
- Prof. Suchismita Satpathy presented on 'Examining the Socio-Cultural Factors Detrimental to Visual Impairment

in Telangana, India' at the World Summit on Public Health and Health Science 2024 organized by The World Health Summit WHS Foundation, Universitätsmedizin Berlin on 16 October 2024.

- Prof. Shilpaa Anand delivered lectures on 'Disability and Culture' at Maulana Azad National Urdu University on 14 September 2024, 'Cultures of Disability' at the Institute of Eminence workshop, University of Hyderabad on 01 October 2024, and 'Disability Politics in India: Mapping the Terrains' at the ICSSR Conference on Disability Justice, Institute of Development Studies, Kolkata on 12 November 2024. She also presented on 'Cultural Studies of Medicine' at VIT AP's Research Methodology Workshop 30 November 2024, participated in the Faculty Development Programme at Banaras Hindu University 04 October 2024, and was a panelist at the Young Researchers Workshop on 'Understanding Intersectionality in Educational Contexts' at Mahindra University on 14 October 2024.

### Department of Mathematics

- Prof. PK Sahoo presented on 'Emerging Trends in Physical Sciences' at CONIAPS XXXI, Pt. Ravishankar Shukla University, Raipur from 20-21 December 2024, delivered a lecture at BRICS-AGAC 2024, SGT University, Gurugram from 17-19 December 2024, and presented at FIAM-2024, Central University of Punjab, Bathinda from 13-14 November 2024. He also conducted a session at the International Workshop on Mathematical Modelling, Cosmology and Data Science - 2024 at Woxsen University, Hyderabad from 25-29 October 2024 and participated in ISHEP-2024 in Antalya, Turkey from 18-21 October 2024.
- Prof. Sushil Bhunia participated in the 39<sup>th</sup> Annual Conference of the Ramanujan Mathematical Society at Christ University, Kengeri Campus, Bengaluru from 27 to 29 December 2024.
- Prof. Deepika presented on ' $\lambda$ -limited sets and the generalized Gelfand Philips Property' at the 71<sup>st</sup> Annual Conference of Bharat Ganita Parishad: Recent Advances in Mathematics & Applications - An International Meet at the University of Lucknow, Lucknow, on 17 November 2024.

### Department of Mechanical Engineering

- Prof. Pavan Kumar Penumakala presented a talk on '3D Printing of Electrodes for Energy Storage Devices' at VEMU Institute of Technology, Pakala, Andhra Pradesh, in September 2024.

- Prof. Jeevan Jaidi delivered a lecture on 'Finite Element Simulations of Metal Joining Processes' at MVSR Engineering College (Autonomous), Hyderabad, in August 2024.
- Prof. Amit Kumar Gupta presented on 'Advancements in Sustainable Energy, Materials, and Manufacturing Technology' at the 1<sup>st</sup> International Conference on Advancements in Sustainable Energy, Materials, and Manufacturing Technology, held at MRL Institute of Technology, Hyderabad, in August 2024.
- Prof. Jeevan Jaidi conducted a session on 'Computational Fluid Dynamics Basics and Industrial Applications' at B. V. Raju Institute of Technology, Narsapur, Telangana, in October 2024.
- Prof. Sujith R. presented a talk on 'Role of Silicon Oxycarbides as Anode Materials in Li/Na-ion Batteries' at the Indian Institute of Technology Madras in October 2024.

### Department of Pharmacy

- Prof. Nirmal J presented on 'Polymeric Patch: A Platform Technology to Deliver Ocular Therapeutics' as part of the Symposium cum Workshop for 'Advanced Techniques to Augment Innovations in Vision Sciences' at the ARVO-India 30<sup>th</sup> Annual Meeting of the Indian Eye Research Group at AIIMS, New Delhi, India, on 27 September 2024.
- Prof. Nirmal J delivered a lecture on 'Topical Drops to Safeguard Eyes from Systemic Drugs-Induced Ocular

Toxicity' at APPICON, the 70<sup>th</sup> Annual National Conference of the Association of Physiologists and Pharmacologists of India at ESIC Medical College and Hospital, Chennai, Tamil Nadu, India, on 12 December 2024.

- Prof. Swati Biswas presented on '3D-Printed Contact Lenses-Like Patches for Delivering Therapeutics to Treat Bacterial Keratitis' at Bioprinting Ignited X INDIA, IISc Bangalore from 10-12 July 2024. She also spoke on 'Translational Medicine in Drug Development' at the University of Ladakh's symposium on Next Generation Therapeutics on 31 August 2024, and delivered a talk on 'Contact Lens-Like Therapeutic Patches to Combat Biofilm in Keratitis' at KERACON 2024, Bangalore from 06-08 December 2024. She also presented on 'Nanomedicine: Unlocking its Potential in Cancer and Infectious Diseases' at RADD-2024, Sri Venkateshwara College of Pharmacy, Hyderabad on 12 December 2024.

### Department of Physics

- Prof. Subhadeep Roy presented on 'Effective Rheology of Multiphase Flow Through Porous Media' at Vidyasagar University, West Bengal, from 13 to 17 July 2024.
- Prof. Kannan Ramaswamy delivered a talk on 'Can Discovery Happen in Classroom Setting?' at the Higher Secondary School Teachers Transformation Program (HSSTTP Physics) in Cochin, Kerala, on 10 December 2024.

### Vidwanotsav 2024: PhD Fest

BITS Pilani, Hyderabad Campus, hosted Vidwanotsav PhD Fest 2024, a vibrant blend of academic, sports, and cultural activities. The event was inaugurated by Goutham Mangari, Senior Director at Oracle, who emphasized the role of research in driving innovation.

The poster competition showcased diverse research from science, engineering, humanities, and social sciences, fostering scholarly exchange. Sports events, including cricket, football, badminton, and table tennis, added excitement, promoting teamwork and camaraderie.

Cultural performances, featuring music, dance, rangoli, and an art exhibition, highlighted the creative spirit of PhD scholars. Vidwanotsav PhD Fest 2024 strengthened the academic community, making it a memorable milestone for BITS Pilani, Hyderabad Campus.





## Sanctioned Projects (SRCD) During July - December 2024

Sl. No	PI-Name	PI-Dept	Co-PI-Name	Co-PI-Dept	Funding Agency	Type of Project	Project Name	Sanctioned-Amount (Rs)	Sanctioned date	Project Duration (Months)
1	Nirmal J	Pharmacy	NA	NA	Suyaash Pharmaceuticals, Chikhli	Industry	Corneal patch-based artificial tear	1004180	12-07-2024	18
2	Suchismitha Satpathy	Humanities and Social Sciences	NA	NA	ANRF SSY - Conference	International	An International Conference - Sustainable Urban Water Management For Fast Growing Cities	200000	11-07-2024	3
3	Ankur Bhattacharjee	Electrical and Electronic Engineering	NA	NA	DST-SYST-2021	Govt	IOT Enabled Solar-VRFB Storage Integrated Smart Charging Station for sustainable E-Mobility	3701000	12-07-2024	36
4	Lavanya Suresh	Humanities and Social Sciences	Raj Kamal	ATRRE	FES - Foundation for Ecological Security	Consultancy	Mapping the Institutions, Rules, and Norms that Define Commons and Developing an Analytical Framework for Mapping Commons at Scale	2450000	12-07-2024	12
5	Srinivasa Prasad Kommajosyula	Pharmacy	Nirmal J and Ramendra Kishor Pal	Pharmacy and Chemical	DBT	Govt	Development and Validation of Sensor-augmented Pump (SAP) for Glutamate Tracking and Grabbing in Neurological Disorders [BT/PR48417/MED/32/860/2023] (Phase-I Category)	3563192	22-07-2024	18
6	Sanket Goel	Electrical and Electronic Engineering	NA	NA	Truenergy	Industry	Design and Development Super Capacitor Battery Hybrid	1500000	24-07-2024	24
7	Chittaranjan Hota	Computer Science and Information System	NA	NA	Mind Map	Consultancy	Revolutionizing Recruitment with AI and Machine Learning	354000	23-08-2024	12
8	Sudha Radhika	Electrical and Electronic Engineering	Sabareesh G R	Mechanical	BOSCH Global Software	Consultancy	Generation of Datasets for Induction motor	878000	14-08-2024	4
9	Sanket Goel	Electrical and Electronic Engineering	Sriram	Pharmacy	BFI	International	Novel Efflux Pump Inhibitor and Antimicrobials loaded Nanomaterials using Cyber Physical System Enabled Droplet-based Microfluidic System	5300000	28-08-2024	24
10	Amartya Sanyal	Biological Sciences			ANRF CRG	Govt	Deciphering the epigenetic determinants of acquired cancer drug resistance	5990080	03-09-2024	36
11	Bandhan Bandhu Majumdar	Civil Engineering	Prasanta Sahu and Ishant Sharma and Suchismitha Satpathy	Civil Engineering and HSS	ICSSR	Govt	Commuter-Centric Mobile Application for Public Electric Bicycle Sharing System (CC-MAP)	7500000	03-09-2024	36

## Sanctioned Projects (SRCD) During July - December 2024

Sl. No	PI-Name	PI-Dept	Co-PI-Name	Co-PI-Dept	Funding Agency	Type of Project	Project Name	Sanctioned-Amount (Rs)	Sanctioned date	Project Duration (Months)
12	Saibal Kar, Vivekananda Mukherjee, Paramita Mukherjee, Shreya Biswas, Sayoree Gooptu, Saheli Bose	Economics and Finance			ICSSR-Longitudinal Study	Govt	Tracing the Transition: A Longitudinal Study of Skilling and Labour Market Outcomes of Indian Youth in Orissa, Jharkhand, Telangana and West Bengal	5000000	23-09-2024	60
13	Sanket Goel - Khairunnisa Amreen	Electrical and Electronic Engineering	NA	NA	DST - WISE	Govt	Point-of Care, Machine Learning Assisted Multiplexed Human Fertility Hormone Detection device	4262960	03-10-2024	36
14	Sayan Das	Mechanical Engineering	Sabareesh Geetha R	Mechanical Engineering	DRDO DYSL CARS	Govt	Investigations on impact dynamics of Advanced Light Weight Torpedo (ALWT) on water surface	2662354	23-10-2024	24
15	Sridhar Raju	Civil Engineering	Akshay Gundla	Civil	M/s Osnar Chemicals Pvt Limited	Industry	Development of Mixture design for Bituminous Concrete and its Rutting Evaluation	150000	24-10-2024	2
16	Manik Gupta	Computer Science and Information Systems	Ponnalagu	EEE	DRDO DYSL CARS	Govt	Deployment of Deep Neural Networks on Low Power Micro controllers for continuous Real-Time Speech Applications	991672	30-10-2024	12
17	Soumya J	Electrical and Electronic Engineering	Paresh Saxena	CSIS	Google Unrestricted Gift	Industry/International	Power and Performance Estimation Based on RTL Code	2531439	08-11-2024	
18	Chandu Parimi	Civil Engineering	NA	NA	Ati Motors, Bangalore	Consultancy	Rating the lifter Chassis for structural stability under various loading conditions	600000	15-11-2024	3
19	Pratyush Chakraborty	Electrical and Electronic Engineering	NA	NA	DST NSF CPS (Scheme - 3237 ZBSA)	Govt	NSF-DST CPS Small Equitable Energy Access via Energy Communities and Microgrids A Cyber-Physical System Approach	3981840	18-11-2024	36
20	Anakhi Hazarika	Electrical and Electronic Engineering	NA	NA	DST TIH-IoT Chanakya Fellowship Program 2024	Govt	Design an Edge Computing - based Smart Feed and Water delivery System for Livestock	11,55,200	18-11-2024	24
21	V Ramgopal Rao	Electrical and Electronic Engineering	Sanket Goel and Arindam Kushagra	EEE	Ministry of Electronics and Information Technology (MeitY), Govt. of India	Govt	Development of indigenous medical radiation dosimeter based on organic field-effect transistors (DosFET)	22100000	18-11-2024	36

Sl. No	PI-Name	PI-Dept	Co-PI-Name	Co-PI-Dept	Funding Agency	Type of Project	Project Name	Sanctioned-Amount (Rs)	Sanctioned date	Project Duration (Months)
22	Amol Deshpande, S. D. Manjare, Apurba Chakraborty, Parikshit Sahatiya, Rahul Kumar, S. K. Dubey and Sanket Goel	Chemical Engineering, Goa Campus, Electrical and Electronic Engineering, Mechanical Engineering			ASM-HHV Engineering Ltd., Bangalore	Industry	Development of a Laser Assisted CVD Reactor system as an addition/alternative to Siemens CVD reactor for polysilicon production	13119240	02-09-2024	18
23	Punna Raoravi	Pharmacy	NA	NA	Transform SciTech Pvt., LTd.,	Industry	Simple to Use Injection System (SUIS) for Influenza Flu Vaccine	1001700	26-11-2024	12
24	Mohan S C	Civil Engineering	NA	NA	HBL Power Systems Limited	Industry		900000	12-12-2024	4
25	AK ZIZ Ali	Computer Science and Information Systems	NA	NA	Vinci 4D, Menlo Park, CA US	Consultancy	Generative AI-assisted CAD Modeling of Electronic Enclosures	843700	17-12-2024	6
26	ACV Subrahmanyan	Economics and Finance	Thota Nagaraju and Laxmi Kumari, Bandi Kammaiah and P Vijay	Economics and Finance, IPE, HCU and Incois	ICSSR	Govt	Evaluating the Factors and Impact of Solar Energy Adoption on SME: A Study of SME of Hyderabad	1100000	19-12-2024	12
27	R Parameshwaran	Mechanical	NA	NA	TGREDCO - workshop	Govt	Renewable Energy Awareness for Empowering Educators (REAE2)	30000	14-12-2024	1 day
28	Jayati Ray Dutta	Biological Sciences	Ramakrishnan Ganesan and Naga Jyoti	Chemistry and Medical Centre	ICMR-1	Govt	A Multifunctional C-Dot Nanozyme-infused Dressing Prototype for Treating Diabetic Foot Ulcer	6075414	20-12-2024	36
29	Arti Dhar	Pharmacy	Vamsi Krishna Venuganti, Durba Roy, Kalyaneswar Manda	Pharmacy and Chemistry and TIFR, Hyderabad	ICMR - 2025	Govt	Tailored Peptide Therapy: Design, Synthesis, Delivery, and Pharmacological Assessment of Hybrid Peptides Targeting Heart Failure and Cardiac Remodeling.	9733021	18-12-2024	36
30	DST FIST - Biological Sciences	Biological Sciences			DST FIST - Biological Sciences	Govt	DST FIST - Biological Sciences	9025000	20-12-2024	60



## Distinguished Talks / Lectures Organized by Departments

Guest Lecture By	Organization	Topic of the Talk	Date	Department
Prof Raad Nashmi	University of Victoria, British Columbia, Canada	Substantia Nigral Dopaminergic Neurons: Function and Role in Movement	19-11-2024	Department of Biological Sciences
Dr Dhananjay Chaturvedi	DBT Wellcome TRUST intermediate fellow, CCMB, Hyderabad, India	Flying and Muscling through Biology	19-10-2024	Department of Biological Sciences
Dr Tushar Deshpande	University of Muenster	Laminins: Gatekeepers and Signal Modulators of the Neurovascular Unit	12-10-2024	Department of Biological Sciences
Prof Ullas Kolthur	Director, CDFD Hyderabad			Department of Biological Sciences
Dr Özlem Günay.-Esiyok	Ege University, Izmir, Turkey	Cyclic nucleotide signaling in Toxoplasma gondii	17-12-2024	Department of Biological Sciences
Prof Kannan Rangaramanujam	Johns Hopkins School of Medicine	Development and Translation of Cell-Targeted Systemic Nanomedicines	28-11-2024	Department of Chemical Engineering
Prof Ashish Verma	Indian Institute of Science	Quantifying Transportation System Impacts in terms of Quality of Life (QOL)	16-10-2024	Department of Civil Engineering
Prof A K Sarkar	Former Director, BITS Pilani, Pilani Campus	Sustainable Development Need and UN-SDGS for Future	20-09-2024	Department of Civil Engineering
Prof Satish Tripathi	University at Buffalo (UB), the flagship of the State University of New York (SUNY) system	The University at Buffalo (SUNY), AI and Society	03-08-2024	Department of Computer Sciences and Information Systems
Dr Chaitanya Chintaluri	IST Austria	Spontaneous Firing: A Survival Strategy in Neurons?	22-08-2024	Department of Computer Sciences and Information Systems
Prof Aritra Banik	NISER Bhubaneswar	Parameterized Algorithms: Tailoring Algorithms for Precision	18-10-2024	Department of Computer Sciences and Information Systems
Dr Avaneesh Narla	Stanford University	Mechanisms & Functions of Collective Behavior Across Biological Scales	20-11-2024	Department of Computer Sciences and Information Systems
Prof Mark Lee	University of Birmingham	Insights Into: Responsible AI	25-11-2024	Department of Computer Sciences and Information Systems
Mr Bhavesh Mishra, IAS, Deputy Secretary,	IT & Electronics Department, Government of Telangana	To discuss our ongoing applied AI work and projects in health, education, social sector, and other areas that align with government use cases.	13-12-2024	Department of Computer Sciences and Information Systems
Dr Rashmi	RICH	To discuss our ongoing applied AI work and projects in health, education, social sector, and other areas that align with government use cases.	13-12-2024	Department of Computer Sciences and Information Systems
Dr Franacois	Inria, France	Part of project work GDD, funded by Inria DST.	09-12-2024 to 12-12-2024	Department of Computer Sciences and Information Systems
Dr Monique	Inria, France	Part of project work GDD, funded by Inria DST	10-12-2024 to 12-12-2024	Department of Computer Sciences and Information Systems
Dr Snehashi Maji	Inria, France	Part of project work GDD, funded by Inria DST	10-12-2024 to 11-12-2024	Department of Computer Sciences and Information Systems

Guest Lecture By	Organization	Topic of the Talk	Date	Department
Prof Muhammed Sajid N	BITS, Hyderabad	Activating Green Intentions: Examining the Influence of Anthropomorphism and Framing in CSR Messaging for Sustainable Hospitality	22-08-2024	Department of Economics and Finance
Prof. Paras Sachdeva	BITS, Hyderabad	Fiscal and monetary policy regimes: New evidence from India	29-08-2024	Department of Economics and Finance
Prof Dr GVR Shastri	Chairman of Coastal India Development Council (CIDC, New Delhi)	Managing Team	26-09-2024	Department of Economics and Finance
Prof Jeena T Srinivasan	CESS, Hyderabad	Fisheries for food, nutrition security and livelihoods: Exploring the social economy of dried fish in India	30-09-2024	Department of Economics and Finance
Prof Soumyananda Dinda	University of Burdwan	Sustainable Green Growth: Circular Economic Approach	25-10-2024	Department of Economics and Finance
Aftab Jassal	University of California, San Diego	Screening and discussion of the film, Playing in the Rain: A Himalayan Pilgrimage of the Gods	20-08-2024	Department of Humanities and Social Sciences
Harsh Mander	Peace activist and independent researcher; chairperson, Center for Equity Studies, New Delhi	'The Morality of India's Constitution'	24-09-2024	Department of Humanities and Social Sciences
Tanweer Fazal	Department of Sociology, University of Hyderabad	The State in Practice: Shifting Paradigms and the Construction of the Muslim Question	10-09-2024	Department of Humanities and Social Sciences
Neha Dixit	Independent Journalist	Discussion of the Book, The Many Lives of Syeda 'X'	13-09-2024	Department of Humanities and Social Sciences
Susan Koshy	K. R Mangalam University	The Legal Quandary of Digital Content	11-10-2024	Department of Humanities and Social Sciences
Projit Mukharji	Department of History, Ashoka University	Writing Histories of Science at a Time of Growing Scientism in History	12-11-2024	Department of Humanities and Social Sciences
Dr Adam Mechler, La Trobe	University, Australia	Where the peptides attack: understanding the plasma membrane in the context of antimicrobial peptide action	22-07-2024	Department of Pharmacy
Dr Jimmy Hsia,	NTU, Singapore	Title of talk- 'Mechano biological effects of geometry-mediated wound healing'	22-07-2024	Department of Pharmacy
Dr Sanhita Roy,	L V Prasad Eye Institute, Hyderabad	Membrane targeted host defense peptide as an alternative therapeutic for corneal infections	22-07-2024	Department of Pharmacy
Dr Chitta Ranjan Patra,	CSIR-IICT, Hyderabad	Metal nitroprusside analogs nano particles: New nanomedicine for cancer therapy	22-07-2024	Department of Pharmacy
Dr Falguni Pati,	IIT-Hyderabad	Precision Medicine: Harnessing the Potential of 3D Bio printing in Biomedicine	22-07-2024	Department of Pharmacy
Dr Rajkumar Banerjee,	CSIR-IICT, Hyderabad	Targeting Glucocorticoid Receptor: A Potent Drug-Sensitizing, Nano-therapeutic Delivery Strategy for Cancer	22-07-2024	Department of Pharmacy
Dr Jayeeta Bhaumik,	CIAB Mohali	Agri-Biomass Lignin-Based Bio materials for Anti-Cancer and Anti-Microbial Applications: A Waste to Health Approach	22-07-2024	Department of Pharmacy

## Distinguished Talks / Lectures Organized by Departments

Guest Lecture By	Organization	Topic of the Talk	Date	Department
Dr Pradip Paik,	IIT BHU, Varanasi	Mesoporous polymer Nano medicine for therapeutic applications	22-07-2024	Department of Pharmacy
Dr Kamala Bhavaraju,	Head of Clinical Bioanalytics at Biologics, Dr. Reddy's Laboratories Ltd	Challenges in Immunogenicity Testing of Biosimilars: Tocilizumab as a Case Study	18-11-2024	Department of Pharmacy
Prof Rajeev Pattathil,	Rutherford Appleton Laboratory, UK	Zero to light-speed in a centimeter	02-08-2024	Department of Physics
Dr Juluri	Department of Physics, University of Warwick, UK	GaAs/AlGaAs Multi quantum well nanowires for Miniature photo devices	18-09-2024	Department of Physics
Dr Ram Kishore Sharma	Postdoctoral Fellow CEICO, Institute of Physics of the Czech Academy of Sciences	Primordial magnetic fields and the stochastic gravitational wave background	29-09-2024	Department of Physics
Dr. Kuntal Misra	Aryabhata Research Institute of Observational Sciences (ARIES) Nainital, India	An Overview of the 4m International Liquid Mirror Telescope	29-10-2024	Department of Physics
Prof. Pravata K Mohanty	Department of High Energy Physics, TIFR, Mumbai and PI of the Cosmic Ray Laboratory, TIFR at Ooty	Probing the Century-Old Mystery of Cosmic Ray Origin	16-12-2024	Department of Physics
Prof. Sunny Zafar	Mechanical Engineering, IIT Mandi	Engineering carbon fiber surfaces for enhanced mechanical properties of resulting composites	12/11/2024	Department of Mechanical Engineering
Ms. Sneha Nandan	Head of Supply Chain at FUL Foods, Amsterdam, Netherland	Role of Omni Logistics and Supply Chain in business growth	20/11/2024	Department of Mechanical Engineering
Mr. Nachiket Modak	CEO & Co-founder, Theta Measurement and Control	Revolutionizing Aviation: The Fly-By-Wire Sensor Test Set	26/11/2024	Department of Mechanical Engineering
Prof. Shrikant Joshi	Professor, Department of Engineering Science, University West, Sweden	Recent Advances in Thermal Spraying to Enable a New Generation of Functional Coatings	06/12/2024	Department of Mechanical Engineering
Mr. Sajeeth Kumar	Reynlab Technologies, India,	Guest lecture as part of the course Engines, Motors, and Mobility (ME F317)	10/09/2024	Department of Mechanical Engineering
Prof. Subhanshu Gupta	Washington State University	Integrated Sensing and Communication at the Network Edge with Fast Insights	16-10-2024	Department of Electrical and Electronics Engineering
Prof. Suddhasattwa Nad	Intel Co - USA	Semiconductor Manufacturing and Packaging: An Innovator's Journey	05-11-2024	Department of Electrical and Electronics Engineering
Prof. Satish Sharma	San Diego State University	Design and Development of Flat Panel Phased Array Antennas	11-12-2024	Department of Electrical and Electronics Engineering
Dr. Dinesh Kumar	Danfoss Drives A/S, Denmark	Harmonic challenges in Existing and Future Grids : Reflection from International Harmonic Standardizations	16-12-2024	Department of Electrical and Electronics Engineering

## Distinguished Visits

Name of the Visitor	Organization Visitor is from	Occasion of Visit (Conference/Lecture /Event)	Date of Visit (DD-MM-YYYY)	Purpose of Visit
Mr. R. Venkata Gopal	Municipal Commissioner, Thumkunta Municipality	Biogas plant and Lab visit	07-10-2024	To visit the biogas plant on the campus and observe its functioning
Prof. Suparna Mukherji	Indian Institute of Technology Bombay	Lab visit	05-07-2024	Visited the lab to understand the ongoing projects and infrastructure
Akshay Kumar Rathore & Team	IEEE (9 eminent professors from prestigious universities)	Fostering Innovation through Collaboration: Strategic Frameworks and Brainstorming Session in Power Electronics and Power Systems	31-07-25	Interaction with the Department
Mr. Sundar Saran Sombhatla and Mr. Krishna Dhadke	Biological E. Limited Hyderabad, India	Lab visit	04-12-2024	To visit the ongoing project focused on the treatment of bio-pharmaceutical fermentation wastewater using pulsed electric field technology
Dr. Özlem Günany-Esiyok	Ege University, Izmir, Turkey	iPEARL Visit	16-12-2024 to 19-12-2024	International Cooperation and MoU
Prof. Ranganathan Kumar Professor, Mechanical and Aerospace Engineering, Associate Dean for Research and Administration	University of Central Florida	Academic and research collaborations	17-12-2024	For a discussion on potential collaborations in research, student, and faculty exchange

## Students Events

### ATMOS '24

Atmos '24, the techno-management festival of our institute, explored the intersection between technology and imagination in a multidimensional space of creativity and innovation with the theme of 'Astral Arcade'. Held from 8th to 10th November, this edition sought to transcend the boundaries of innovation with an exciting lineup of events, workshops, competitions and quizzes.

The festival kicked off with the I-CELL Tech Expo, which provided students a unique opportunity to showcase their innovations to prospective funders. The festival also boasted an exciting line-up of visionary speakers - AS Kiran Kumar (Ex-Chairman, ISRO), Prashant Chandrasekhar (CEO, Stack Overflow), Ashneer Grover (Entrepreneur), Taran Chhabra (Co-Founder, Neemans) - whose insights provided

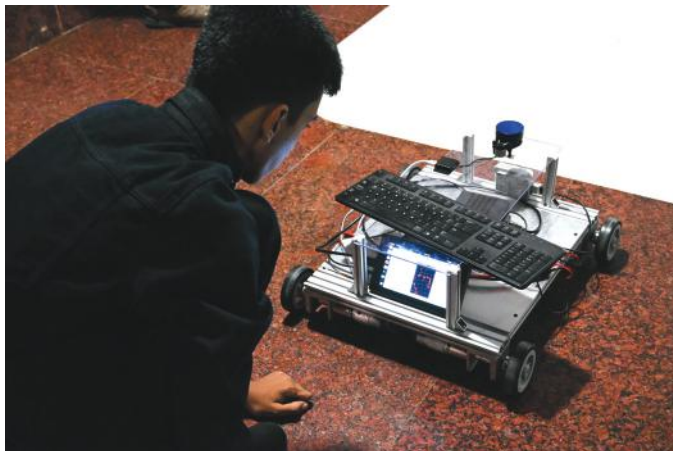
a unique perspective into their success. Students even got a chance to interact with the electrifying Vishwak Sen, who visited to promote his movie 'Mechanic Rocky'.



*Vishwak Sen interacting with the students*



## Students Events



*Demonstration during the Tech Expo*

Multiple student-led workshops offered a more hands-on experience, with R Programming, Advanced Rocket Engineering, DSA, Game Development, Generative AI, Stock Market, Product Management, Gravity Simulation, Soap Making workshops among others. For students itching to showcase their competitive spirit, there were hackathons, Krafton ESports competitions, and even uniquely themed games - Crime Scene Investigation, Chem-Casino, Space Escape, The Singularity, Concrete Bowling and many more!



*The National TechXcelerate Hackathon (2024) - BITS Pilani, Hyderabad Campus Edition*

The headliner events, invited the best teams from across the country to represent their institutes in fierce battles. With growing combat robotic enthusiasts, Robowars India League proved to be the crowd-puller. With our own Team Thriveforce competing, students excitedly gathered to see these lethal bots conquer the arena. The third edition of BITS Drone Racing League had over 15 drones racing through challenging obstacle courses on campus. Finally, the SAE organised Auto Expo and Time Attack Race had five custom-built ATV's in an ultimate off-road challenge.



*The combat bots in action during Robowars India League*



*BITS Drone Racing League Finals*



*IEEE Panel Discussion - Quantum Computing*

But with all these exciting events, the festival nights proved even more entertaining. Madhur Virli had everyone laughing with his edgy humour during Comedy Night. The second day of the festival had the most awaited events - the musical performances. With Nakash Aziz performing old classics, and Lost Stories energising the crowd with amazing remixes, students were treated to a diverse range of music.

### SPIC MACAY

With our institute boasting a vibrant cultural scene, we once again embraced the opportunity to collaborate with the Society for the Promotion of Indian Classical Music and Culture Among Youth (SPIC MACAY). This time we held the honor of hosting the 'Mozart of India', Dr. Pandit Ranajit Senugupta, a renowned Sarod player, accompanied by Thakur Harijit Singh on the Tabla.



*Pandit Ranajit Senugupta on the Sarod, accompanied by Thakur Harijit Singh on the Tabla*



*Students welcoming Dr. Pandit Ranajit Senugupta*

### Janmashtami Celebrations

The Maharashtra Mandal and Brindavanam Telugu Samithi conducted a Shri Krishna Janmashtami celebration. This unifying festival of liberation and joy was celebrated with the exciting Dahi Handi Breaking and Dandiya events.



*Dahi Handi Breaking Event*

### Mental Health Talk by the founder of Mindpeers

In an initiative to help freshmen transition from the hectic competitive examination cycle, BITS Embryo and BITS Mental Health Support Group presented a mental health talk by Kanika Agarwal, the founder of Mindpeers



*Ms. Kanika Agarwal during her session 'Unlocking New Perspectives'*

### Apogee 2.0 - The CanSat Journey

This annual event, held by SEDS on 12<sup>th</sup> August, commemorated Team JANUS for their outstanding achievements in the International CanSat Competition. Previously, Team Janus secured the 1<sup>st</sup> rank worldwide in the Preliminary Design Round of the CanSat competition with a perfect score. With the team qualifying for the final on-site stage of the competition for the third consecutive time in 2024, the team displayed their latest CanSat model for students aiming to dive into the cutting edge of aerospace innovation.



*Team JANUS presenting their latest CanSat model*

### Independence Day Visit to Karuna Volunteering Organisation Orphanage

The NSS team of BITS Pilani, Hyderabad Campus celebrated this Independence Day with the children in the Karuna Volunteering Organisation Orphanage. The Student Mess Council and Mess-2 provided food for the children.





*The NSS Team with the Children of the Karuna Volunteering Organisation Orphanage*

### **BITSian's Day Celebration - SARC**

This BITSian's Day marked BITS Pilani's Diamond Jubilee, and was celebrated across the world from 2<sup>nd</sup>-3<sup>rd</sup> August. In our campus, we celebrated BITSian's Day with great enthusiasm and excitement with events organised by SARC. With over a thousand participants across all the events conducted, the day was celebrated in accordance with the momentous milestone.



*Students performing in the Open Mic Jam Session*

### **Project Parishkaar - Nirmaan**

Project Parishkaar, an initiative by Nirmaan, aims to foster the children of the non-teaching staff at BITS to realise their full potential. The project ran throughout the semester, where children from grades 1-10 were tutored by students of the BITS Pilani, Hyderabad Campus in the subjects of Math, Science, Social Science and Languages according to the children's needs.



*Children's Day Celebrations during Project Parishkaar*

### **Red Bull Basement - E-Cell**

Powered by E-Cell, Red Bull Basement organised a launchpad on the 18<sup>th</sup> of August to jumpstart students' journey in the global Basement Competition. A panel discussion featuring prominent industry leaders was held on 'Leveraging AI for Societal Impact: From Concept to Commercialization'.



*Post-Panel Discussion Interaction Session with Jeetan Desai*

### **From the Beginning with Nag Ashwin**

In collaboration with BITS Embryo Hyderabad, our institute welcomed the visionary National Film Award-winning Director and Screenwriter Nag Ashwin, along with the celebrated National Award-winning Journalist, Prema Malini. Facilitating this exclusive interview, our institute was honored to feature in Prema Malini's first Town Hall - From the Beginning with Nag Ashwin.



*From the Beginning with Nag Ashwin*

### **SPIC MACAY - Leather Puppet Show**

In collaboration with SPIC MACAY and Brindavam-Telugu Samithi, Shri Sindhe Hanumanthu Rao treated us to a fun

filled evening by showing us the story of Ramayana using elaborate puppets and intricate movements.



*Still from Enactment of Ramayana - Tolu Bommalata*

### **NSS - Blood Donation Drive**



*NSS blood donation*

In collaboration with Lions Club International, NSS, organised their annual blood donation drive on 6<sup>th</sup> November in the Student Activity Center. Due to assistance from the medical center, each donor was ensured a comfortable and rewarding experience.

### **Sanskriti '24 - A Cultural Spectacle at BITS Pilani, Hyderabad Campus**

Every September, the BITS Pilani, Hyderabad Campus becomes a lively center of artistic expression as Sanskriti takes place, uniting music, dance, and storytelling in a grand celebration of culture. Sanskriti '24 was no different,

presenting a captivating display of talent, tradition, and creativity. The event showcased the campus's cultural diversity, featuring performances from the college's renowned cultural clubs Baithak, Maithri, Tamil Sangam, Brindavanam, Sangam, and Utkal Samaj.

The evening commenced with an enchanting musical performance by Baithak, establishing a soulful ambiance with a fusion of classical and contemporary melodies. This was followed by Maithri, whose heartfelt act resonated deeply with the audience, blending musical traditions across regions and emotions.

Tamil Sangam graced the stage with classical dance, their intricate movements and expressions mesmerizing all attendees. Brindavanam enriched the experience with a folk performance steeped in tradition, celebrating the beauty of age-old customs. Sangam infused the night with vibrant energy, seamlessly merging traditional and modern elements, while Utkal Samaj concluded the evening with an exhilarating folk dance performance that captivated the audience until the very last beat.

Sanskriti '24 was not merely an event; it was an enriching experience that connected students, faculty, and guests in a shared appreciation of culture and heritage. The careful planning was evident in the smooth transitions between performances, the thoughtfully curated lineup, and the lively atmosphere that filled the venue.

More than just entertainment, the event celebrated the diverse cultural fabric that makes BITS a truly unique community.



*Sanskriti'24*



## Community Welfare Activities

BITS Pilani, Hyderabad Campus celebrated the 78<sup>th</sup> Independence Day on 15<sup>th</sup> August 2024 with enthusiasm. The day began with a 2.5k and 5k run organized by the Student Welfare Department, followed by a flag hoisting by Director Prof. Soumyo Mukherji. The event, led by the Community Welfare Unit, featured patriotic performances and concluded with prize distribution and sweets, marking a spirited celebration.



Independence Day Marathon



Flag Hoisting by the Director

### Swachhata Hi Seva Activities 2024

Plastic-cleaning drive followed by tree plantation on September 21, 2024.

As part of the Swachh Bharat initiative, a fortnight of 'Swachhata Hi Seva' (SHS) has been observed since 2017, with this year's theme being 'Swabhav Swachhata - Sanskaar Swachhata,' which highlights cleanliness as an

inherent behavior. In line with SHS 2024, two engaging events were organized on 29 September 2024.

1. A mime show for children aged 5 to 15.
2. A 'Waste to Art Installation' competition, a family-oriented event where teams of 2-3 family members participated.



Swachhata Hi Seva Activities

As a gesture of appreciation, saplings were given to all participants, and sustainable gifts were awarded to the winners of the competitions.

### Diwali Milan 2024

Diwali Milan 2024 was celebrated on 1 November 2024 at the Old Children's Park, BITS Pilani Hyderabad Campus. The event featured food stalls, homemade jewellery, games, and a musical tambola, bringing the community together for a festive evening.



Rangoli

## Men's Day Celebration 2024

Men's Day 2024 was celebrated with a series of exciting events. On November 9, 2024, the day featured a parking skill test, a pani puri eating competition, and a friendly football match. The celebrations concluded with a fun-filled session of games and prize distribution on November 28, 2024. As part of the festivities, raincoats were also distributed to outsourced employees and security personnel, adding a thoughtful gesture to the Men's Day celebrations.



Mens Football Team

## Joining Hands (MoUs)

Name of the Organization	Date of Signing	Short Description of the MoU Signed
T-Works and The Centre of Research Excellence for National Security (CRENS)	12-9-2024	To foster innovation and collaboration in national security
Ege University, Izmir, Turkey	19-12-2024	BITS-Ege MoU signed by VC and Dr. Özlem Günay-Esiyok (facilitated and hosted by Nishith Gupta and iPEARL)
Indian Institute of Oilseeds Research, Hyderabad	02-12-2024	Birla Institute of Technology & Science - Pilani (BITS-Pilani) and the ICAR-Indian Institute of Oilseeds Research, Hyderabad (ICAR-IIOR), signed an MoU on December 2, 2024, to promote collaborative research efforts. The MoU will facilitate joint efforts and foster research projects across disciplines such as nutrient use efficiency, water use efficiency, artificial intelligence, deep learning, sensing technologies, and automation.
HyBionics Private Limited	2024	A new startup has been approved for incubation at TBI following the Entrepreneurship Committee's review. This startup aligns with TBI's mission to foster innovation and entrepreneurship.
Abyom SpaceTech Private Limited	2024	The agreement with the Technology Business Incubator (TBI) has been reviewed for renewal, as per the decision taken during the Entrepreneurship Committee (EC) meeting.
Anjamma Healthcare Private Limited	2024	This renewal ensures continued support for entrepreneurial activities, fostering innovation and incubation for startups and students.
Cinnova Biotherapeutics Private Limited	2024	
Prof. Biplab Sikdar, Head of Department and Area Director (Communications & Networks), National University of Singapore, Singapore	31-07-2024	Exploring Collaboration Opportunities: Dept. of EEE and Dept. CSIS faculty members were attended the meeting and discussed about collaboration between BITS-Pilani and NUS, Singapore at BITS Hyderabad Campus
Prof. Nikhil Singla, Country Director, Emory University, USA	11-12-2024	Exploring Collaboration opportunities: All department HoD's, Associate Deans, Deans and Dean, Administration were attended the meeting and discussed about collaboration between BITS-Pilani and Emory University.
Dr. Özlem Günay-Esiyok, Ege University, Turkey	18-12-2024	A new MoU has been signed between BITS Pilani and Ege University. The MoU was signed by Prof. V. Ramgopal Rao (Vice Chancellor, BITS Pilani) and Dr. Özlem (representative of Ege University). The ceremony was attended by Prof. Yogeewari (Dean, Administration), Prof. Nishith Gupta (Department of Biological Sciences), Prof. Ch. Mohan Rao (Head, Department of Biological Sciences), Prof. I. Sreedhar (Associate Dean, IPCD), Prof. Sanket Goel (Dean-R&I), Prof. Vamsi (Dean-AGSRD), and Prof. Sriram (Dean-FAD). Additionally, Prof. Soumyo Mukherji (Director, Hyderabad Campus) and all Associate Deans of IPCD from other BITS Pilani campuses joined the event virtually.

## Patents

Title	Investors	Department	Month	Status
Gene editing systems comprising reverse transcriptases (WO2024086669)	Prof. Ketaki	Department of Pharmacy	-	Filed
US Patent Application No. US63638343	Prof. Ketaki	Department of Pharmacy	-	Filed
An injectable composition for sustained release of ocular therapeutics (Complete Patent 202411053400)	Prof. Nirmal J, Prof. Sai Shreya Cheruvu	Department of Pharmacy	15-07-2024	Filed
Process for synthesis of SNP loaded PDA coated Ceria Zinc Nanoflowers (PDA@SNP@Ce:Zn NFs) (Application number: 202411090580)	Prof. Sri Ganga Padaga, Prof. Balaram Ghosh, Prof. Swati Biswas	Department of Pharmacy	11-11-2024	Filed
A composition for producing a gene delivery system (Application number: 202411056054)	Prof. Subit Kumar Saha, Prof. Shalini Dyagala, Prof. Sayantan Halder, Prof. Swati Biswas, Prof. Milan Paul, Prof. Rishika Aggrawal	Department of Pharmacy	23-08-2024	Filed
A photodynamic chemotherapeutic lipidic nanoparticle, a nano-formulation thereof, and a method of preparing the nano-formulation. Publication Date: 19/07/2024	Prof. Rupesh Jain, Prof. Gautam Singhvi, Prof. Sunil Kumar Dubey, Prof. Swati Biswas, Prof. Milan Paul	Department of Pharmacy	16-01-2023	Filed
Muco-adhesive, self-dissolving formulation to treat deep corneal tissue diseases and method of preparing the same (Patent authority: BITS-Pilani, Indian Patent Application 202311005942)	Prof. Swati Biswas, Prof. Balaram Ghosh, Prof. Sanjay Ch, Prof. Sanhita Roy	Department of Pharmacy	02-08-2024	Filed
Multifunctional hybrid nanozymes for MRSA-infected diabetic wound healing (Patent authority: BITS-Pilani, Indian Patent Application number 202411075838)	Prof. Balaram Ghosh, Prof. Prafull, Pradeep Kothari, Prof. Tonmoy Banerjee	Department of Pharmacy	07-10-2024	Filed
Bifunctional Conjugate Molecules for Cancer Treatment and Process of Making the Same (International Patent Application number: PCT/IN2024/051503)	Prof. Balaram Ghosh	Department of Pharmacy	16-08-2024	Filed
Bifunctional Conjugate Molecules for Cancer Treatment and Process of Making the Same (Indian Patent Application No: 202311055618)	Prof. Balaram Ghosh	Department of Pharmacy	20-07-2024	Filed
Caffeic acid amine complexes (Patent No. 552772)	Prof. J. Ray Dutta	Department of Biological Sciences	21-10-2024	Granted
Process For Nanoimprinting Of Metal-Containing Polymeric Coatings And Patterns (Application No. 202411088779)	Prof. J. Ray Dutta	Department of Biological Sciences	16-11-2024	Filed
A process of preparing Fe <sub>2</sub> O <sub>3</sub> /AgBr heterojunction coatings (202411072286)	Prof. J. Ray Dutta	Department of Biological Sciences	24-09-2024	Filed
Bio Composite Formulation And Polymer Degradation Process (20241107113)	Prof. J. Ray Dutta	Department of Biological Sciences	20-09-2024	Filed
Formulation For Iron Chelation Therapy And Method Of Preparation Thereof (202411069508)	Prof. J. Ray Dutta	Department of Biological Sciences	13-09-2024	Filed
A Colorimetric Hydrogel Layer For Pathogen-Inhibiting Surface (202411061095)	Prof. J. Ray Dutta	Department of Biological Sciences	13-08-2024	Filed
Effective biomethanation process for treating high organic food waste - Title: A High Organic Loaded Anaerobic Digestion (HOLAnD) System and Method for Bio-methanation of Food Waste	Prof. P. Sankar Ganesh	Department of Biological Sciences	24-09-2024	Filed
SAAAnA Reactor: Sandwich Aerobic-Anaerobic-Aerobic Reactor - Title: A Reactor System for Treating Organic Waste and a Method for the Same (Indian Patent No. 202411062676)	Prof. P. Sankar Ganesh	Department of Biological Sciences	20-08-2024	Filed
A new design was proposed for a Photocatalytic Water Splitting Reactor for the production of Green hydrogen and oxygen, effective at producing ~1.7 kg/day using sunlight	Prof. Satyapaul A. Singh, Prof. Vikranth Kumar Surasani	Department of Chemical Engineering	November 2024	Filed



Title	Investors	Department	Month	Status
Patent filed in collaboration with Chairman, Defence Research & Development Organisation (DRDO) and Birla Institute of Technology & Science (BITS), Pilani	Prof. Faisal Musthaq, Prof. Ramesh Kaki, Prof. Sandip Shridharrao Deshmukh, Prof. Chandu Parimi, Prof. Tathagata Ray, Prof. Praveen Tandon, Prof. Pramodkumar Jha	Department of Computer Science Information System	-	Granted
'Laparoscopic Surgical Device', Patent No. 552278	Prof. K. Ram Chandra Murthy, Prof. Y.V.D Rao, Mr. Harsha Sista, Prof. Md. Abdul Raheem Junaidi, Mr. Aakrit Patel	Department of Mechanical Engineering	22-10-2024	Granted
'A Process for Manufacturing a Prosthetic Limb Socket and the Socket Thereof', Patent No. 556089	Prof. Srinivasa Prasad Regalla, Mr. Prakash Narayan Shrivastava	Department of Mechanical Engineering	11-12-2024	Granted
'Machine Vision Based Assembly Line Components Identification System', Patent No. 556554	Mr. Faisal Musthaq, Mr. Ramesh Kaki, Prof. Sandip Shridharrao Deshmukh, Prof. Chandu Parimi, Prof. Tathagata Ray, Praveen Tandon, Pramodkumar Jha	Department of Mechanical Engineering	19-12-2024	Granted
Apparatus, Composition And Method Of Preparation of Food-Based Nano-Sized Conductive Paste	Prof. Goel Sanket, Ms. K Ramya, Mr. Mao Yuvraj Maphrio, Dr. Amreen Khairunnisa	Department of Electrical and Electronics Engineering	14-07-2024	Filed
Optimized Interdigitated Electrode Configuration for Enhanced- Performance Electrochemical Measurement Systems	Prof. Goel Sanket, Mr. Patil Ankit Anil, Prof. Kushagra Arindam, Prof. BVVSN Prabhakar Rao, Prof. Satish Kumar Dubey	Department of Electrical and Electronics Engineering	23-07-2024	Filed
High-Performance Kill Switch For High-Current Circuits	Dr. Joyjit Mukherjee, Mr. Jayant Khatri, Mr. Mrinal R. Mr. Naman Kasliwal, Mr. Saideep Verma, Mr. Ankesh Pandey	Department of Electrical and Electronics Engineering	23-07-2024	Filed
Machine Learning Based Automated System and Method of Generating Droplets In A Microfluidic Device	Mr. Sameer Dubey, Mr. Jakkam Leela Kishan, Prof. Arshad Javed, Prof. Dubey Satish Kumar, Prof. Goel Sanket	Department of Electrical and Electronics Engineering	10-09-2024	Filed
Device Assembly For Fuel Cell And Electrochemical Sensor And Method Of Preparation Thereof	Prof. Sanket Goel, Mr. Yuvraj Maphrio Mao, Ms. Ramya K, Dr. Khairunnisa Amreen	Department of Electrical and Electronics Engineering	11-09-2024	Filed
Method For Preparing Mxene Composition And Fabricating Flexible-Rigid Printed Circuit Boards	Prof. Parikshit Sahatiya, Ms. Nandini A. Trivedi	Department of Electrical and Electronics Engineering	25-09-2024	Filed
A System For A Self-Powered Human-Machine Interaction (HMI) Touch-Sensitive Device	Mr. Sk Masum Nawaz, Mr. Abhijit Mallik, Mr. Sovan Dey, Mr. Arindam Mandal, Mr. Pritam Chowdhury, Mr. Dipanjan Sanyal, Mr. Mainak Saha	Department of Electrical and Electronics Engineering	05-11-2024	Filed
Development of a multipurpose diagnostic device based on microporous microneedle patch for minimally invasive sampling and electrochemical detection of glucose, uric acid and thyroid stimulating hormone from interstitial fluid	Prof. Parikshit Parshuram Sahatiya, Prof. Venkata Vamsi Krishna Venuganti, Ms. Shreya Shashank Chauhan	Department of Electrical and Electronics Engineering	28-09-2024	Filed
An Apparatus For Detecting Biochemical Analytes Using Electrochemiluminescence	Prof. Sanket Goel, Prof. Abhishek	Department of Electrical and Electronics Engineering	18-12-2024	Filed
Portable Electrochemiluminescence Device And Method For Processing Electrochemiluminescence (Ecl) Signals	Prof. Sanket Goel, Prof. Abhishek Mr. Sashwat Goel,	Department of Electrical and Electronics Engineering	24-12-2024	Filed
Design And Synthesis of Novel Tetracyanoquinodimethane (Tcnq) Derivatives to Utilise In A Point Of Source Testing (Post) Multimode Optical Detection System	Jayanty Subbalakshmi, Mohitkar Anuradha, Goel Sanket, Pavar Saikumar	Department of Electrical and Electronics Engineering	27-12-2024	Filed



## Students Artworks



Aarav



Adrija Choudhury



Anjana



Anushka Ghosh



Mrinmayee Tappe



Shriya



Esther



Geetanjali



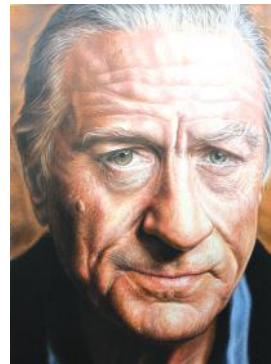
Kavya Dholaria



Prasanna S



Ritansh



Uzzaam Ghalib



Daksh Raichandani



Divya Sonwane



Khushi Bhardwaj



Simran



Sahil Salvee



Sumehra

## Introducing New Faculty (July - December 2024)

The new faculty members who have joined between July - December 2024.

SRN	Full Name	Designation	Department	Date of Joining
1	Kunaljeet Roy	Assistant Professor, Gr-I	Humanities and Social Sciences	01-07-2024
2	Kanika	Assistant Professor, Gr-I	Electrical & Electronics Engg	05-07-2024
3	Madhushree Chakrabarty	Assistant Professor, Gr-I	Humanities and Social Sciences	08-07-2024
4	Ketaki Deepak Belsare	Assistant Professor, Gr-I	Pharmacy	15-07-2024
5	Debajit Bora	Assistant Professor, Gr-I	Humanities and Social Sciences	22-07-2024
6	Manabendra Kuri	Assistant Professor, Gr-I	Physics	23-07-2024
7	Ufaque Paiker	Assistant Professor, Gr-I	Humanities and Social Sciences	29-07-2024
8	Mumhammed Sajid N	Assistant Professor, Gr-I	Economics and Finance	01-08-2024
9	Srinivas Appari	Associate Professor	Chemical Engineering	16-08-2024
10	Meera Kumari	Assistant Professor, Gr-I	Electrical & Electronics Engg	16-08-2024
11	Satheesh Reddy Gundra	Distinguished Senior Professor	Electrical & Electronics Engg	22-08-2024
12	Sudipta Maiti	Senior Professor	Biological Sciences	02-09-2024
13	Mohammad Adil Dar	Assistant Professor, Gr-I	Civil Engineering	14-10-2024
14	Swati Rani Hait	Assistant Professor, Gr-I	Mathematics	05-11-2024
15	Shrikant Mulay	Associate Professor	Pharmacy	25-11-2024
16	Sutapa Roy	Assistant Professor, Gr-I	Physics	26-11-2024
17	Khadiza Ali	Assistant Professor, Gr-I	Physics	20-12-2024
18	Lalit Kumar	Professor of Practice	Electrical & Electronics Engg	28/12/2024

## Editorial Team



The names from left to right are:  
Prasanth Inturi, Nyaya Praharsha, Maya Vinai, Lavanya Suresh, Prajna Upadhyay, Rishit Shah.

Credits and Thanks for pictures to the Department of Photography (DoPY)  
Credits and Thanks to the Library for the collection of Media Stories



