

# BITScan

Hyderabad Campus



## Hyderabad Campus holds 9<sup>th</sup> CONVOCATION

The Birla Institute of Technology and Science (BITS) Pilani, Hyderabad Campus, organised the Convocation ceremony for its graduating students of the 2022 batch September 4, 2022. Dr. Srivari Chandrasekhar, the Secretary of DST, India and the former Director of the Indian Institute of Chemical Technology (IICT), graced the occasion as the Chief Guest and was joined by Prof. Souvik Bhattacharyya, Vice-Chancellor, along with senior leadership, senate members, faculty and staff. The Auditorium resonated with the excitement and enthusiasm of the graduating students, their families, faculty members and staff.

In this convocation, 3070 candidates of 90<sup>th</sup> Award and 5777 candidates of 91<sup>st</sup> Award received degrees, of whom 1056 students received their first degrees, 289 students received their higher degrees, and 72 scholars received Ph D degrees. The first-degree students who were awarded medals for their outstanding academic performances were Miss P Smriti (Gold), Mr Abhishek Mukherjee (Silver), Mr Vikramjeet Das (Bronze). Apart from this, 2962 candidates were awarded degrees in the 90<sup>th</sup> Award, and 4467 candidates in the 91<sup>st</sup> Award from the Work Integrated Learning Programmes (WILP) for working professionals, of whom 33 first degree and 267 higher degree students received their degrees. **This year BITS has introduced the BITS Ratna Award and Distinguished Service Award** along with the existing Distinguished Alumnus Award. The BITS Ratna Award is awarded to Mr Prashanth Palakurthi, an alumnus of BITS 1984 batch. Captain K Ravi Shankar (Posthumous) received the Distinguished Service Award in recognition of exceptional bravery and supreme sacrifice for the country. The auditorium crowd gave a standing ovation to this late brave BITS alumni. In the category of Distinguished alumnus award figured alumnus like Mr Nandan Reddy (the Co-founder of Swiggy), Mr T M Vijay Bhaskar (IAS 1983 batch Karnataka cadre) and Dr. Jagadeesh Babu Rangisetty (Founder and CEO of Biophore India Pharmaceuticals).



Convocation '22



## Awards



*Distinguished Service Award and Distinguished Alumnus Awards*

## Important Visits and MoU's signed



*Inauguration of SBTET by Mr Navin Mittal.*



*Shri U Raja Babu as Chief Guest for Teacher's Day celebrations at BITS-Pilani Hyderabad Campus.*



*Prof. Madan Pilutla, Dean of organisational behaviour, ISB and Prof. G Sundar, Director, BITS-Pilani, Hyderabad Campus.*

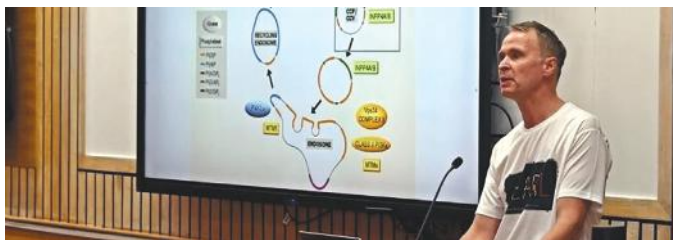


*Signing of MoU with the local Thumkunta Municipality.*

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

### International Symposium on Human Diseases – 2022 (ISHD – 2022) by the Department of Biological Sciences

The Department of Biological Sciences hosted the first International Symposium on Human Diseases on November 12, 2022. The symposium aimed to encourage discussion on recent advances in understanding human diseases. Though we were still witnessing a surge of COVID-19 cases, it did not deter over 150 participants, to come together for the Symposium. Participants from various parts of the country and beyond, including students, research scholars, postdoctoral fellows, eminent scientists, and faculty members were part of this event. The event concluded on a high note with a session on, 'Career in Science', for Doctoral Scholars at BITS-Pilani, Hyderabad Campus. The event brought together leading experts in the fields of inherited, infectious and neurodegenerative diseases in humans. A major highlight was a discussion on basic and translational research in India and beyond. A series of internationally-renowned speakers, including Volker Haucke (FMP Berlin), Shanti Swaroop Bhatnagar Awardee Dr. Pushkar Sharma (NII), Dr. Raghunand Tirumalai (CSIR-CCMB), Dr. Karthika Rajeeve and Dr. Rajeeve Sivadasan (RGCN-Trivendrum), Prof. Swati Biswas and Prof. Nishith Gupta presented their research with countless touches of humor, engaging young minds. Ten Ph D scholars from DoBS held Turbo-Talks. Among several other topics – were challenges faced by women scholars and tips to overcome them.



Prof. Volker Haucke, Director, FMP, Berlin Germany at ISHD'22



Attendees of the International Symposium on Human Diseases 2022

### 13<sup>th</sup> International Conference on Human-Computer Interaction (India HCI 2022) organised by Department of CSIS

The Department of Computer Science and Information Systems (CSIS) at BITS-Pilani Hyderabad Campus hosted the 13<sup>th</sup> annual International Conference on Human-Computer Interaction (India HCI 2022) from November 9-11. There were a total of 150+ participants in the 3-day conference from India and abroad. The theme of the conference was 'Appropriate Design'. There were six keynote talks delivered over the three days by Kumar Bagrodia (NeuroLeap), Richard Anderson (University of Washington, USA), Marianne Kinnula (University of Oulu, Finland), Deepak Menon (Microsoft), Manohar Swaminathan (Microsoft Research) and Nimmi Rangaswamy (IIIT Hyderabad). Dr. Dipanjan Chakraborty was the General Chair of the conference.



Deepak Menon, Vice President, Microsoft delivering a Keynote Address



Prof. Richard Anderson, University of Washington and Prof. G. Sundar, Director, BITS Pilani, Hyderabad Campus

### ACM India Women in Computing Celebrations (ACMWiC 2022) at BITS-Pilani Hyderabad Campus by Department of CSIS

On October 8, 2022 the Department of Computer Science at BITS-Pilani Hyderabad Campus, in collaboration with ACM-W India, organised the ACM India celebration of Women in Computing event, held in conjunction with the Lady Ada National level programming contest for girl students.



The main idea was to encourage more young women to adopt Science, Technology, Engineering, and Mathematics (STEM) related careers and narrow down the gender gap in computer science and engineering-related fields.

More than 1000 girls from different institutions around the country participated in the initial two online coding contest rounds. The eleven finalists were brought to BITS-Pilani Hyderabad campus for the final round of the programming contest conducted on October 7, 2022. The final prize winners were Kavya Chopra from IIT Delhi, Talika Gupta from IIIT Guwahati and Khooshrin Pithawala from BITS-Pilani Hyderabad Campus. There was an interesting lineup of talks by accomplished women speakers both from academic institutions like IIT Hyderabad, IIIT Hyderabad, IIT Madras, and industries like Google and Microsoft Research.



ACM Women in Computing Celebration 2022

### 6<sup>th</sup> Doctoral Research Symposium by Department of Electrical and Electronics Engineering

The EEE department organized its 6<sup>th</sup> Doctoral Research Symposium on December 17, 2022, 63 research scholars from the department presented their work as posters.



EEE department organized its 6<sup>th</sup> Doctoral Research Symposium

### Seminar on Rights of Women with Disabilities: A Status Update by the Department of HSS



The Department of Humanities and Social Sciences at BITS -Pilani Hyderabad Campus organised a one-day national seminar titled 'Rights of Women with Disabilities: A Status Update' on November 15, 2022. The National Commission for Women funded the seminar, which the campus Director Prof. G Sundar inaugurated. A keynote address by Prof. Anita Ghai of Ambedkar University, Delhi followed the inauguration, whose talk focused on post-pandemic and post-human realities, which require multiple interactions among technology, humans and social systems. The seminar comprised four sessions, including the inaugural session. Resource persons including Prof. Renu Addlakha, Centre for Women's Development Studies; Prof. Nandini Ghosh, Institute of Development Studies, Kolkata; Prof. Amita Dhanda, NALSAR University of Law, Hyderabad; Prof. Bindhulakshmi, Tata Institute of Social Sciences, Mumbai; and Prof. Shubha Ranganathan, IIT Hyderabad. They transformed the event into a series of active academic dialogues on the intersection of disability and gender. 121 participants from various higher educational institutions across India attended the seminar.

### Workshop on JMP Statistical Software for Pharmaceutical Sciences by Department of Pharmacy

A One-day workshop on JMP Statistical Software for Pharmaceutical Sciences was conducted on November 08, 2022 by the Department of Pharmacy. Attendees performed Statistical Data Analysis using JMP and got hands on training of using data sets/case studies. The resource persons were from JMP Global Technical Enablement Team and JMP Global Academic Team.

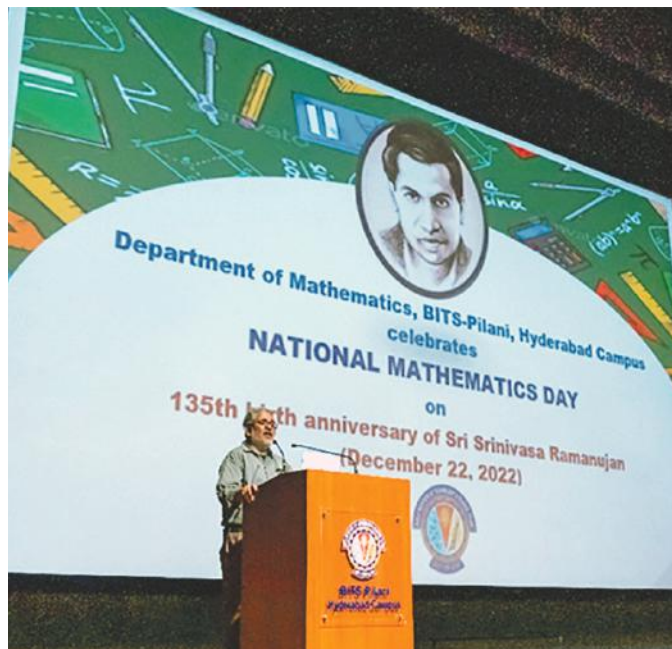


*JMP Statistical Software for Pharmaceutical Sciences Workshop*

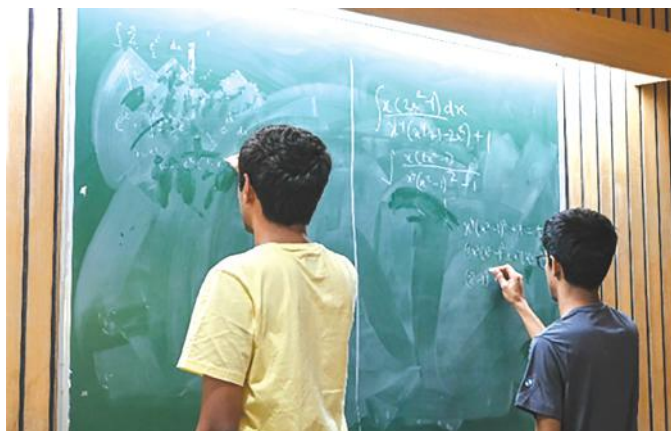
## Department of Mathematics Celebrates National Mathematics Day in memory of the 135<sup>th</sup> Birth Anniversary of Sri Srinivasa Ramanujan

On the 135<sup>th</sup> birthday of Sri Srinivasa Ramanujan, the Department of Mathematics, BITS-Pilani, Hyderabad Campus organised a day-long program to celebrate the genius of Sri Srinivasa Ramanujan through various activities. The in-house events such as Quizzes, Integration Bee, and Debate competitions were conducted for the kids on campus, B.E Students and Research Scholars. The event was coordinated by Prof. P K Sahoo and convened by Prof. Sumit Kumar Vishwakarma, Dr. Santanu Koley, Dr. Debopam Chakraborty, Dr. Sajith P, Dr. Sushil and Dr. Sayan Ghosh. The following activities took place on December 22, 2022.

- Plenary talk by Prof. Kapil Hari Paranjape, IISER Mohali.
- Poster Presentation by students on Mathematics in Nature and Mathematics for Better World.
- Second Plenary talk by Prof. Narasimha Kumar, IIT Hyderabad.
- Games on Prime numbers.
- Faculty-student interactions.
- Prize, Trophy and Certificate distributions by Prof. G Sundar, Director, BITS-Pilani, Hyderabad Campus, Prof. Kapil Hari Paranjape and Prof. Narasimha Kumar.



*Prof. Kapil Hari Paranjape IISER Mohali*



*Integration bee competition*

## International Conference / Seminar / Workshop

### Department of Biological Sciences

- Dr. Ruchi Jain Dey presented a paper on 'The untold story of extra-pulmonary tuberculosis & reproductive health of women: New in vitro and in vivo models to nail the Pulmonary-Genital tract axis-Dare2eraD TB & infertility'. At the 39<sup>th</sup> Annual meeting of SRBCE, International Conference on Reproductive biology, Comparative Endocrinology & Development hosted by SRCBE AND CSIR-CCMB Hyderabad, Telangana from September 14 to 16, 2022.
- Dr. Ruchi Jain Dey presented a paper on 'Discovery of a new drug target against an old foe-Tuberculosis' at the Microbiology and Society-Current Trend and Future Prospects conference (MSCTFP-2022) hosted by the Association of Microbiologists of India (AMI), CSIR-CFTRI, DRDO and KSTA Mysore University from September 20 to 23, 2022.
- Dr. Ruchi Jain Dey presented a paper on 'Harnessing Mucosal Immunity towards improved resistance against Tuberculosis' at DBT-Ramalingaswami Fellowship and MK Bhan-YRFP Joint Conclave 2022-23 hosted by Rajiv Gandhi Centre for Biotechnology (RGCB), Kerala from 30<sup>th</sup> November to December 3, 2022.
- Prof. Nishith Gupta attended the World Health Summit hosted by the World Health Organization in Berlin, Germany, on October 16, 2022.

### Department of Chemistry

- Dr. Tanmay Chatterjee presented on the topic 'Development of Iodine-Catalyzed, Sustainable Sulfonylative Annulation Strategies with 2-Alkynyl Biaryls to Access 9-Sulfonylphenanthrenes and Polycyclic Heteroaromatics' virtually at the 29<sup>th</sup> International Symposium on the Organic Chemistry of Sulfur (ISOCS29) hosted online by the University of Guelph, Guelph, Ontario, Canada on July 17-22, 2022.
- Dr. Chanchal Chakraborty presented a 'Co-based Metal-Organic Nanostructures for Vis-to-NIR Electrochromic Display' at the 29<sup>th</sup> International Display Workshops organized online by Liquid Crystal Society of Japan at Fukuoka International Congress Center, Fukuoka, Japan from December 14-16, 2022.

### Department of Chemical Engineering

- Dr. Ramendra Kishor Pal presented on 'Sensitive Detection of Glyphosate using Nanoporous Gold Electrodes' at the

International Conference on sustainability in chemical processes through digitalization, artificial intelligence and green chemistry, CHEMCON 2022 hosted by Harcourt Butler Technical University, Kanpur on December 27, 2022.

- Dr. lyman Abrar presented on 'Surfactant-free alcohol-diesel-water microemulsion fuels for compression ignition engines' at the International conference on sustainability in chemical processes through digitalisation, artificial intelligence and green chemistry, CHEMCON 2022 hosted by Harcourt Butler Technical University, Kanpur on December 27, 2022.
- Dr. lyman Abrar & Dr. Arnab Dutta presented on 'Optimal fuel selection using a multi-criteria decision-making framework' and 'Interpretable Machine Learning Models for Prediction of Fuel Properties' at the 10<sup>th</sup> Asian Symposium on Process Systems Engineering: Systems Engineering for the Digitalization Era (PSE Asia-2022) hosted by IIT Madras December 11, 2022.
- Dr. lyman Abrar presented on 'Enhanced Biodiesel Production from waste cooking oil using ZnO nanocatalyst' at the International Conference on Nanotechnology: Opportunities & Challenges (ICNOC-2022), hosted by Jamia Millia Islamia on November 28, 2022.
- Prof. I Sreedhar presented on a 'Few insights on carbon capture using novel and cost-effective adsorbents based on coal flyash' at the International Chemical Engineering Conference hosted by IIT Patna on November 12, 2022.

### Department of Civil Engineering

- Dr. Raghu Piska; S El Borgi; M Muhammad; A Rajagopal; and J N Reddy; presented on the topic 'Phase-field model of a surface crack in a graded coating-homogeneous half-plane under thermal loading' at the SES 2022 Annual Conference hosted by Texas A&M University, College Station, Texas, USA from October 16 to 19, 2022 .

### Department of Computer Science & Information System

- Dr. Manjanna B presented on 'Dispersing Facilities on Planar Segment and Circle Amidst Repulsion' at the International Symposium on Algorithmics of Wireless Networks (ALGOSENSORS) 2022, hosted by Hasso Plattner Institute (HPI), Potsdam, Germany from September 8 to 9, 2022.
- Dr. Raghunath Reddy M presented on 'Exact Algorithms and Hardness Results for Geometric Red-Blue Hitting



Set Problem' at the International Joint Conference on Theoretical Computer Science – Frontier of Algorithmic Wisdom (IJTCS-FAW 2022) hosted by the City University of Hong Kong, Hong Kong (Online) from August 15 to 17, 2022.

- Dr. Barsha Mitra virtually presented a paper on 'PAMMELA: Policy Administration Methodology using Machine Learning' at the 19<sup>th</sup> International Conference on Security and Cryptography organised by INSTICC in Lisbon, Portugal from July 11 to 13, 2022.
- Dr. Paresh Saxena presented on 'Deep Reinforcement Learning for MEC Enabled Non-Terrestrial Networks: Models, Applications and Challenges' at the 48<sup>th</sup> Wireless World Research Forum hosted by Technology Innovation Institute, Abu Dhabi, UAE, on November 8, 2022.

### Department of Economics and Finance

- Dr. Thota Nagaraju presented a papers on 'Monetary Transmission Mechanism Before and After The Inflation Target, Evidence from India' and 'Monetary Policy Impact On The Financial Markets, Evidence From India' at the Contemporary Issues in Emerging Markets Conference (CIEMC 2022) hosted by IIM Bodh Gaya on October 28 & 29, 2022.
- Dr. Shreya Biswas presented on 'Road to safety-Examining the nexus between road infrastructure and crime in rural India' at the 17<sup>th</sup> Annual Conference on Economic Growth and Development hosted by ISI, Delhi, December 19-21, 2022.
- Dr. Shreya Biswas presented on 'What's the worth of a promise? Evaluating the long-term indirect benefits of a program to reduce early marriage in India' at the Second Biennial Conference on Development hosted by IGDR, Mumbai, December 22-24, 2022.
- Dr. Rishi Kumar presented a research proposal on 'The co-benefits of expanding water supply in urban India: Evidence from a quasi-experiment' at the 44<sup>th</sup> Biannual Research and Training Workshop hosted by ICIMOD-SANDEE in Dhulikhel, Nepal from December 12-16, 2022.

### Department of Electrical & Electronics Engineering

- Dr. R N Ponnalagu attended the faulty training program at ADI FIT 2022 hosted by Analog Devices, Bengaluru December 15-16, 2022.
- Prof. Subhendu Kumar Sahoo presented papers on 'Fast and Hardware-Efficient Variable Step Size Adaptive

Beamformer' and 'Navel Frequency Modulated Radar Waveform Generation With Improved Main to Side Lobe Rati' at IEEE MAPCON 2022 hosted by IEEE MTT-S and IEEE AP-S Bangalore India from December 12-15, 2022.

- Dr. Syed Ershad Ahmed presented papers on 'Power Efficient Approximate Booth Multipliers for Error Resilient Applications' and 'Power Efficient Approximate Multiplier Architectures for Error Resilient Applications' at IEEE INDICON 2022 hosted by CUSAT (Cochin, India) from November 24-26, 2022.

### Department of Humanities and Social Sciences

- Dr. Santosh Mahapatra conducted a workshop on 'Writing Publishable Research Papers' at the 16<sup>th</sup> International and 52<sup>nd</sup> Annual Conference of ELTAI hosted by the English Language Teachers' Association of India (Mumbai, India) from December 8-10, 2022.
- Dr. Santosh Mahapatra presented on 'Training Teachers in Using E-portfolio to assess Speaking Skills' at the 8<sup>th</sup> International Assessment Conference on Classroom-based Assessment in the New Normal and Beyond: Challenges and Possibilities hosted by the Asian Association of Language Assessment (Chennai, India) from October 26-28, 2022.
- Tony Sebastian presented on 'Making of an Indian Hero: Retellings of the History of the Portuguese in Malabar' at the VII International Conference on Hispanism on India and the Luso-Hispanic World hosted online by Jawaharlal Nehru University, India.
- Tony Sebastian presented on 'The Politics of Gender and Sexuality in Purogamana Sahitya Sangham (Progressive Literary Group) and Anchu Cheetha Kathakal (Five Bad Stories)' at the International Seminar on Angarey and the Progressive Writers' Movement organized by Indian Association of Commonwealth Literature and Language Studies (IACLALS) hosted online by Avadh Girls' Degree College, Lucknow, India December 16-17, 2022.
- Prof. Shilpaa Anand presented online on 'Care in the time of Pandemic Precarity: Digital Activism and Public Affect in India' at Remapping the Feminist Global Conference hosted by Ewha Womans University, Seoul, South Korea on July 22, 2022.
- Dr. Maya Vinai presented online on 'The Ambivalence of 'belonging' and 'unbelonging' to the Jew Street: A Critical Analysis of Sethumadhavan's novel Aliyah' at The Street and the City-Moments Conference hosted by University of Lisbon from September 7-9, 2022.



- Dr. Lavanya Suresh presented online on 'India's Sustainable Future: Critical Questions and Challenges' at a conference on Sustainable Life and Sustainable Planet hosted by BITS-Pilani and Hiroshima University on November 2, 2022.
- Dr. Lavanya Suresh presented on 'Understanding Polycentricity and Intersectionality in small-scale irrigation systems in water-stressed regions of India', at Ostrom Workshop Research Series conducted online by Indiana University, USA, on September 21, 2022.

### Department of Mathematics

- Prof. Sumit Kumar Vishwakarma presented on 'Dynamics of torsional surface waves in a threefold concentric compounded cylinder with an uneven interface' at the 67<sup>th</sup> Congress of the Society of Theoretical and Applied Mechanics: An International Conference hosted by IIT Mandi, Himachal Pradesh, India from December 14-16, 2022.
- Prof. Jagan Mohan Jonnalagadda presented on 'A Non-resonant Nabla Fractional Boundary Value Problem' at the International Conference on Difference Equations and Applications (ICDEA-2022) hosted by CentraleSupéle, Paris-Saclay, Gif Sur Yvette, France, from July 18-22, 2022.
- Prof. Jagan Mohan Jonnalagada presented online on 'Positive Solutions for Nabla Fractional Periodic Boundary Value Problems' at the International Scientific

Conference Informatics, Mathematics, Education and their Applications (IMEA-2022) hosted by Paisii Hilendarski University of Plovdiv, Pamporovo, Bulgaria from November 23-25, 2022.

- Prof. B Mishra presented on 'Matter bounce and dynamical aspects in Nonmetricity gravity' at the 8<sup>th</sup> Conference on the Polish Society on Relativity, (POTOR8) hosted by the Banach Centre, Institute of Mathematics of the Polish Academy of Sciences, Warsaw, Poland, from the September 19-23, 2022.

### Department of Mechanical Engineering

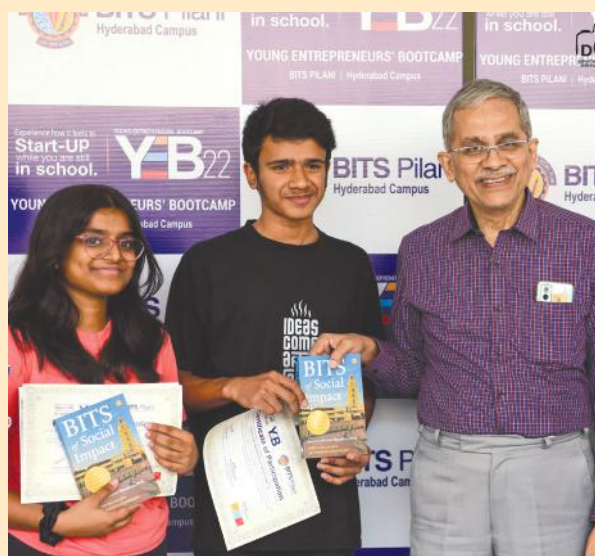
- Prof. Sabareesh G R presented a paper titled 'Achieving Vibration Isolation in plates embedded with repeating periodic cavities' at the 28<sup>th</sup> International Congress on Sound and Vibration, Singapore, from July 25-27, 2022.
- Dr. R S Vidyarthi presented on the 'Metallurgical and mechanical properties evaluation of the WAAM deposited Inconel 625 alloy' at the 76<sup>th</sup> Annual Technical Meeting of The Indian Institute of Metals from November 13-16, 2022.

### Department of Pharmacy

- Prof. Swati Biswas presented on 'Advances in Cancer Diagnostics and Therapeutics' at the CRS local chapter, Hyderabad, on November 15, 2022.

### Young Entrepreneurs Bootcamp

The BITS Pilani, Hyderabad Campus hosted the second edition of the Young Entrepreneurs Bootcamp on its campus from December 24-29, 2022. The YEB is a 6 day immersive programme that brings together school students from classes 9-12 across India and abroad. In this edition of the bootcamp 61 students were selected through a rigorous evaluation process from a total of 468 applicants. The cohort included three students from outside India and two students from rural government schools in Telangana. Almost half, 29 to be specific, of the participants in the bootcamp were girls. The bootcamp was led by Prof. Aruna Malapati, Associate Dean of Alumni Affairs, BITS-Pilani, Hyderabad Campus and Dr. Manish Dave, Head of the Institute Knowledge Analysis Cell. During the six days, the participants underwent intensive sessions on different aspects of entrepreneurship like corporate governance, lean canvas, knowing one's customer, product development, ethics, value proposition, risk mitigation, team building, revenue and funding.



Students at the Young Entrepreneurs Bootcamp

## Faculty Awards

### Department of Biological Sciences

- Dr. Ruchi Jain Dey presented at AMI 62<sup>nd</sup> Annual International Conference of Association of Microbiologists of India (AMI) hosted by the Association of Microbiologists of India and received the best Oral Presentation award on the September 23, 2022.
- Dr. Trinath Jamma was awarded as Wood Whelan Research Fellow under the International Funded Fellowship by the International Union of Biochemistry and Molecular Biology (IUBMB), Northern Holland, Netherlands, on November 22, 2022.

### Department of Chemistry

- Prof. B. M. Reddy was awarded a Gold Medal, and Dr. Himanshu Aggarwal was awarded a Bronze medal at the SMC Awards - 2021 issued by Society for Materials Chemistry (SMC) on September 24, 2022.

### Department of Chemical Engineering

- Dr. Lyman Abrar was awarded Shah-Schulman Award for the Best Ph. D. Thesis (Colloid and Interface Sciences) by IChE in December 2022.
- Prof. I. Sreedhar was awarded Fellow of the Royal Society of Chemistry (FRSC) in September 2022.
- Dr. Lyman Abrar was awarded the Best Presentation Award at the 5<sup>th</sup> International (virtual) Conference on Renewable Energy and Environment Engineering (REEE 2022), Brest, France, in August 2022.
- Dr. Arnab Dutta was a National organizing committee member of the 10<sup>th</sup> Asian Symposium on Process Systems Engineering (PSE Asia-2022), IIT Madras, in December 2022.

### Department of Computer Science & Information Systems

- Prof. G Geethakumari received the accolade of Panel Expert at the 2<sup>nd</sup> Brainstorming Session on 'e-Governance Standards and Guidelines (eGSG)' project issued by the Ministry of Electronics and Information Technology (MeitY), Govt of India on November 25, 2022.

### Department of Electrical & Electronics Engineering

- Dr. Sayan Kanungo was awarded the Joint Best Presentation Award for his paper on 'Analysis of the SO Adsorption on Boron, Nitrogen, and Phosphorous

Doped Monolayer Silicene-A First Principle Study" at the 15<sup>th</sup> International Conference on Sensing hosted by Technology, Sydney, Australia from December 5-7, 2022.

## Student Awards/Achievements

### Department of Biological Sciences

- Rolly Kumari received the ICMR SRF award by the Indian Council of Medical Research on July 14, 2022.
- Namita Pandey received the DST INSPIRE Fellowship by the Department of Science and Technology on August 08, 2022.
- Kalyani Sakhare received the Lady Tata Memorial Trust JRF award by The Lady Tata Memorial Trust on August 24, 2022.
- Rosalba Cruz Miron received Travel/registration award by EMBO Workshop New frontiers in host-parasite interactions from cell to organisation on October 2, 2022.
- Rosalba Cruz Miron was invited as a Guest Scientist to Humboldt University, Berlin, Germany.
- Manjari SKV received the Best Poster Award at International Conference on One Health and Translational Research in Neurosciences and 36<sup>th</sup> Annual meeting of the Society for Neurochemistry India (SNCI) 2022 on September 11, 2022.
- Vaishali Kumar received the Ravindra and Lalita Nath Travel Fellowship by Indian Academy of Neuroscience on September 12, 2022.

### Department of Chemistry

- Shouvik Bhuiik received ACS Applied Materials & Interfaces Best Poster Award on December 18, 2022.
- T Leelasree received the KVRSS research award in Chemistry issued by Dr. K V Rao Scientific Society (KVRSS) on October 1, 2022.

### Department of Chemical Engineering

- Mr Dhanush Majji and Mr Agrim Babbar received MITACS Fellowship-2023 in December 2022.

### Department of Civil Engineering

- Mazhar Syed received - Dr. M.D. Desai Memorial YGE Biennial Award 2022, issued by the Indian Geotechnical Society in December 2022.



## Department of Economics & Finance

- Anuradha Pandey received Best Paper Award at the symposium on Work From Home: Issues & Challenges, worked under supervision of Dr. Swathi Alok at University of Hyderabad from November 18-19, 2022.
- Vastav Ratra was Co-PI of a Sponsored Project at Azim Premji University.
- Dev Gupta was Co-PI of a Sponsored Project Azim Premji University.
- Shreya Lahiri received a Travel Grant by IIM Bangalore at the 17<sup>th</sup> International Conference on Public Policy and Management on August 22-24, 2022.
- Sarvesh Lanke was the National Winner of Flipkart Grid 4.0 - a National level hackathon and won 1.5 lakhs worth EGVs.
- Ananya Agrawal received Inspire Scholarship and was selected for Social Winter of Code 2023 by the Govt. of India.
- Shubh Mansinghka'd Startup Idea 'Exspend' got selected for Google's Startup Bootcamp in December 2022.
- Vastav Ratra received the Thinkswiss Research Scholarship Asia-Pacific 2022 to pursue a thesis at ETH Zurich from July 2022 - December 2022.
- Indu Sukumar won the third prize under the poster presentation category at CoRe 2022 at IGIDR, Mumbai, which took place from November 1-4, 2022.

## Department of Electrical & Electronics Engineering

- Sachin Trankatwar received the Best Paper Award at the IEEE INDISCON conference 2022 from July 15-17, 2022.

## Department of Mathematics

- Dhruv Saxena received the MITACS Globalink Research Internship, 2023.
- Arabelly Abhinav received NTU India Connect Research Internship from the Nanyang Technological University, Singapore.
- Arjun Reddy Qualified for International Youth Math Challenge, December 2022.

## Department of Mechanical Engineering

- Abhishesh Pal received Fulbright-Nehru Doctoral Research Fellowship by United States-India Educational Foundation.

## Teaching Learning Centre

### Intensive Teaching Workshop

Intensive Teaching Workshop was conducted for the newly inducted faculty members, on the August 25, 2022. Prof. Sridhar Raju addressed the participants. Sessions on – Evaluation and Assessment, Technology Enhanced Teaching, and Student Engagement were conducted by Prof. Thiruvikraman, Prof. Bolloju, Dr. Sudha Radhika, Prof. Kannan Ramaswamy, and Prof. Rahul Nigam.

### Workshop on Essentials of doing Research

A workshop on Essentials of doing Research was conducted for the research scholars on the September 24, 2022. Sessions on Research Writing and Presenting Research Work was conducted by Prof. Vijay Kumar, Prof. Amit Gupta and Dr. Spandan Bhattacharya.

### Workshop on Impactful Communication

A workshop on Impactful Communication was conducted for the research scholars on the October 15, 2022. The workshop covered defining communication and it's types.

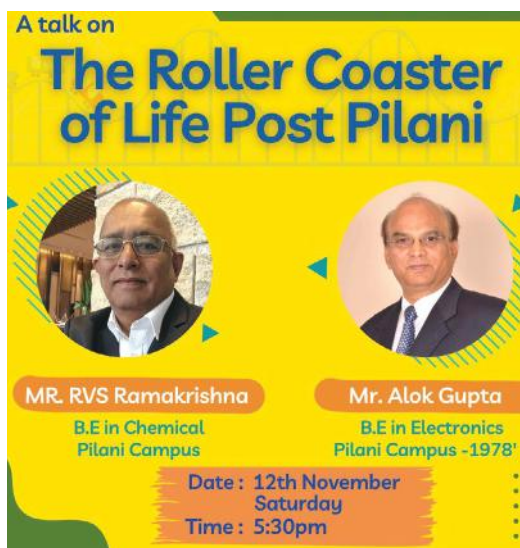
## Alumni Relations

- The Student Alumni Relations Cell (SARC) of BITS Pilani - Hyderabad Campus was glad to host budding entrepreneurs and recent BITS Goa graduates, Harish Uthayakumar and Shreyans Sancheti, at BPHC for a panel discussion on entrepreneurship. They had a fun interaction with the students, where they spoke about their journey from being students at BITS Goa to cofounding their successful startup - BlueLearn.

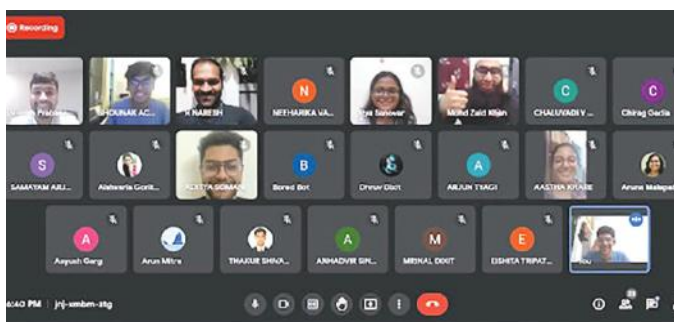


Harish Uthayakumar and Shreyans Sancheti during ATMOS '22

- The Student Alumni Relations Cell hosted Mr. Alope Gupta and Mr. RVS Ramakrishna for a talk on the topic Rollercoaster of life after Pilani on the November 12, 2022. The talk was attended by students of the institute, where they learned about the ups and downs in the lives of the speakers after graduating from BITS-Pilani.



- SARC organized a five-week long Research Paper Writing Workshop to introduce and expose the students of BPHC to the skill of writing research papers. BITSian alumni working or studying at reputed universities from around the world were invited to deliver their content. The speakers were just as excited as the participants to be part of the workshop. Every speaker discussed a unique topic, talked about their experiences, and presented some critical insights.



Research Writing workshop by SARC BITS Hyderabad

## Reunion of 1969 Batch

The alumni of BITS-Pilani Campus, who graduated in 1969, graced the Hyderabad Campus on October 9, 2022. They, along with their family, took a tour around the campus and interacted with students of all years who were eager to hear their college stories. They also interacted with the Director, Prof. G Sundar, and shared their experience with faculty members. Students got an opportunity to pitch their clubs to the alums. It was a fun afternoon on campus, filled with nostalgia and happiness.



Reunion of 1969 Alumni batch of BITS-Pilani

## Reunion of 1974 Batch

Alumni from the 1974 batch of BITS-Pilani graced the Hyderabad campus on the November 22, 2022. The alumni, accompanied by their family members and relatives, were shown around campus and it was a day filled with nostalgia and excitement. A special talk took place for the alumni, along with fun-filled games and events for their spouses.



Reunion of 1974 alumni batch of BITS-Pilani



## International Programmes & Collaborations Division (IPCD)

- 34 students did their off-campus thesis abroad in the first semester of 2022-23. Of these students, IPCD provided 'Partial Financial Support' to 11 students in the first semester of 2022-23.
- One student (UG) was selected for Future Research Talent Program 2022 at The Australian National University, Australia.
- 6 Ph D scholars have applied for AIRS fellowship programme at various Australian Universities.
- 4 UG students have applied for an 8 weeks' summer research internship 2023 at University of Southern California under the Viterbi-India Program.
- MoU between BITS-Pilani & CRC for Contamination Assessment and Remediation of the Environment (CRC CARE), Australia (Signed) in July 2022.
- MoU has been renewed between BITS Pilani and University of Central Florida in August 2022.
- MoU has been renewed between BITS Pilani and Carleton University, Canada in November, 2022.
- Prof. C Vijay Kumar, Fulbright Fellow, University of Connecticut visited from May-September, 2022.

### Events organized / participated by IPCD

S No	Date	Foreign University / Speaker	Topic of the Talk
1	July 4, 18, 20, 22, 25 & 27, 2022	Prof. Challa Vijay Kumar, University of Connecticut, USA	Project discussions with BITS faculty from all campuses
2	August 25-28, 2022	Prof. Challa Vijay Kumar, University of Connecticut, USA	International workshop for Ph.D scholars on thesis Writing in Science and Engineering (WISE-2022)
3	13 September, 2022	Delegates from New York Universities	Information session on Studying in the US: STEM Fair
4	22 October, 2022	BITS Hyd Students	Off-campus thesis (Abroad)-Thesis beyond borders



Delegates visit from NYU on September 13, 2022



International workshop for PhD scholars on thesis writing from August 25-28, 2022

Information Session on October 22, 2022

# Centre For Innovation, Incubation And Entrepreneurship

## Startup School Inaugural Session

E-Cell hosted one of their alums, Ankita Vijayvergiya, co-founder of BillionCarbon on December 14, 2022 for the inaugural session of startup school. With 13+ years of global experience in Technology, Startups, and Scaling Businesses, her expertise spans a multitude of industries. She helped the audience understand the ideation process and brainstorm visions that reshape the market and the recipe for generating an impactful solution.

## Invited Lectures by Faculty

### Department of Chemistry

- Prof. B M Reddy delivered a lecture on the 'Design of Novel Nano-oxide Catalysts for Energy and Environmental Applications Refresher Course in Nano-science, Nano-technology and Applications' at the University of Burdwan, Burdwan, West Bengal on December 08, 2022.
- Dr. Tanmay Chatterjee delivered a talk on 'Recyclable iodine-catalysed radical selenylative annulation of 2-alkynyl biaryls in water: A green synthetic strategy to selanyl polycyclic aromatic hydrocarbons and polycyclic heteroaromatics' at the 2<sup>nd</sup> National Conference on Contemporary Facets in Organic Synthesis (CFOS-2022) hosted by IIT Roorkee on December 04, 2022.
- Dr. Arijit Mukherjee delivered a lecture on 'Organic Crystal Engineering: Expanding the Boundaries/ STUTI program' sponsored by DST at VIT, Vellore, on August 27, 2022.
- Dr. Himanshu Aggarwal delivered a lecture on 'Exploring Metal-Organic Framework Space for Energy and Healthcare Applications' at BARC Mumbai on September 24, 2022.
- Prof. N Rajesh delivered a talk on 'Pursuit of Greener Alternatives for Heavy metal Speciation and Environmental Remediation' at the 10<sup>th</sup> DAE-BRNS Biennial Symposium Emerging Trends in Separation Science and Technology (SESTEC 2022) ICT, Mumbai.
- Prof. N Rajesh delivered the Key Note Talk on 'Critical assessment of diverse materials for sustainable environmental remediation of pollutants' at the 3<sup>rd</sup> International Conference 'CHEMBIOENG-2022' hosted by BV Raju Institute of Technology, Narasapur, Telangana State from November 04-05, 2022.

## A Session with BITS Embryo during ATMOS

E-Cell was delighted to welcome Mr. BVR Mohan Reddy, founder chairman of CYIENT on November 27, 2022 as he shared his insights and advice on Entrepreneurship in India in the context of his recently released book - Engineered in India – From Dreams to Billion-dollar CYIENT. He joined us for an enlightening talk about the inspirational journey of a graduated IITian with a dream in his heart to become a well-accomplished entrepreneur. This talk broadened the attendees' perception of the world and fueled their ambition to fulfil entrepreneurial goals.

### Department of Chemical Engineering

- Prof. Jaideep Chatterjee delivered a lecture at the DAE-BRNS Tenth Biennial Symposium on 'Emerging Trends in Separation Science and Technology (SESTEC-2022)', ICT Mumbai, November 2022. He was also Keynote speaker at the Water Quality India Association meeting, August 25, 2022.
- Dr. Arnab Dutta conducted a workshop on 'Process simulation and optimization using Aspen HYSYS' at the 10th Asian Symposium on Process Systems Engineering: Systems Engineering for the Digitalization Era (PSE Asia-2022), IIT Madras, December 11, 2022.
- Prof. I. Sreedhar delivered a talk on 'Few insights on carbon capture using novel and cost-effective adsorbents based on coal flyash /International Chemical Engineering Conference' at IIT Patna on November 12, 2022

### Department of Civil Engineering

- Prof. K Srinivasa Raju delivered a lecture on 'Classification Algorithms in Water Resources Engineering', One Day Workshop on Soft Computing Applications in WRE (SCAWRE-2022) at Osmania University College of Engineering, Hyderabad on October 31, 2022.
- Prof. Anasua Guharay delivered a talk on 'Sustainable Life and Sustainable Planet' and was Coordinator of the session on Engineering hosted by BITS-Pilani - Hiroshima University Joint Workshop on November 2, 2022.

### Department of Computer Science and Information Science

- Dr. Manik Gupta delivered a lecture on 'AI Fluency Day' at Deloitte Hyderabad on December 2, 2022.



- Dr. Prajna Devi Upadhyay delivered a lecture on 'Semantic Web Technologies for the Internet of Things' at IIIT Sri City, Chittoor, Andhra Pradesh on November 05, 2022.
- Dr. Barsha Mitra delivered a talk titled 'Machine Learning: Recent Trends and Approaches' delivered at the Workshop on AI & ML Applications in Cyber Security at Keshav Memorial Institute of Technology on October 1, 2022.
- Dr. Barsha Mitra delivered a talk on 'Trends and Advances in the Workshop – Internet of Things, Its Security Measures and Advances' at IIT Mandi iHub and HCI Foundation on December 10, 2022.
- Prof. G Geethakumari delivered a lecture on 'Routing Protocol Security for Internet of Things' at a Workshop on Internet of Things (IoT), its security measures and advances at IIT Mandi iHub and HCI Foundation on 9<sup>th</sup> and December 10, 2022.
- Dr. Dipanjan Chakraborty delivered a lecture on 'Using Technology for Good, Beyond Academia' at IIT Bombay (ACM SIGCHI Symposium for HCI and Friends).

### Department of Economics and Finance

- Prof. Vivekananda Mukherjee delivered a lecture on 'Lightening the Burden of Trust in Exchange Relations - Analysing the Role of the Government and the Informal Violence' at a Two Day International Conference on Public Finance, Public Policy and Economic Development at Pondicherry University on November 11, 2022.
- Prof. Vivekananda Mukherjee delivered a lecture on 'Red Tape, ICT and Corruption' at the ICSSR Sponsored Workshop on Information Communication Technologies and Economics at Centre for Development Studies, Thiruvananthapuram on November 16, 2022.
- Prof. Vivekananda Mukherjee delivered a lecture on 'Extortion and Collusion Under Peer Effect and Media Watch' at the International Webinar on Some Imperative Issues of Contemporary Indian Economy at Rishi Bankim Chandra College, Naihati, West Bengal November 18, 2022.
- Dr. Shreya Biswas delivered a lecture on 'Maternity leave and labour market outcomes' at CMIE Consumer Pyramids Webinar on October 6, 2022.
- Dr. Shreya Biswas delivered a lecture on 'Maternity leave and labour market outcomes' at Inspiring change - Indian women and paid work conference held at Great Lakes Institute of Management from December 09-10, 2022.

### Department of Humanities and Social Sciences

- Prof. Shilpaa Anand delivered a lecture on 'Disability and Culture' for the Refresher Course in Comparative

Literature, organised by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad on November 24, 2022.

- Dr. Lavanya Suresh delivered a lecture on 'Political Ecology' at NALSAR University of Law, Hyderabad in September 2022.
- Dr. Anhiti Patnaik delivered a lecture on 'Visual and Visceral Pleasures: Serial Killing in Indian Neo-Noir Crime' at Department of Media and Communication, McMaster University, Canada on October 25, 2022.
- Dr. Santosh Mahapatra delivered a lecture on 'Research Writing, Publishing and Academic Honesty' at an Eight-Day Online Faculty Development Program, organised by SRM Institute of Science and Technology, Ramapuram, Chennai on August 29, 2022.
- Dr. Santosh Mahapatra conducted a 'Language Assessment' Workshop for Refresher Course in English Language Studies, organised by UGC-Human Resource Development Centre, University of Hyderabad on August 24, 2022.
- Dr. Santosh Mahapatra delivered a lecture on 'Language Assessment in the Classroom' for the Refresher Course in English Language Studies, organised by UGC-Human Resource Development Centre, University of Hyderabad on August 23, 2022.
- Dr. Santosh Mahapatra delivered a lecture on 'Inclusive Practices' in the English Classroom - Part 2 at British Council on July 13, 2022

### Department of Mathematics

- Dr. K Bhargav Kumar delivered a lecture on 'Convergent numerical schemes' to McKendrick-von Foerster equations with diffusion at University of Hyderabad on November 17, 2022.
- Prof. B Mishra delivered a lecture on 'Dynamical stability analysis of accelerating f(T) Gravity', at the International Conference on Mathematical Sciences and its Applications hosted by S.R.T.M University, Nanded, India from July 28-30, 2022.
- Dr. Gujji Murali Mohan Reddy delivered a talk on 'A posterior error estimation for the parabolic partial differential equations with small random input data' at the University of Sao Paulo, Brazil on August 3, 2022.
- Prof. P.K.Sahoo delivered lectures on 'Wormhole geometry: Science or Science fiction?' and 'Power-law Cosmology in a Modified Gravity' at the 88<sup>th</sup> Annual Conference of the Indian Mathematical Society: An International meet conducted at Birla Institute of Technology-Mesra, Ranchi from December 27-30, 2022.

## Department of Mechanical Engineering

- Dr. Satish K Dubey delivered a lecture on 'Overview of Clean Room: Micro and Nano Fabrication Facility' at Young Entrepreneurs Bootcamp 2022, BITS-Pilani, Pilani Campus on October 03, 2022
- Dr. Satish K Dubey delivered a lecture on 'Lab Prototype Development: Translational research for Sustainable Agriculture and Health care' at Young Entrepreneurs Bootcamp 2022, BITS-Pilani, Hyderabad Campus on December 25, 2022.
- Dr. Amrita Priyadarshini delivered a lecture on 'Applications of Cad/Cam/Cae' In Mechanical Engineering/One Week Online STC on 'Emerging Trends and Technical Developments in Automated Machines' at Department of Mechanical Engineering, Sreenidhi Institute of Science and Technology, Hyderabad, in collaboration with NIT Warangal on September 27, 2022.

## Department of Pharmacy

- Dr. Onkar Prakash Kulkarni delivered a lecture on 'HDAC inhibition in the pathogenesis of renal injury' at the Conference on 'Revolution Healthcare Chemical and Pharmaceutical Sciences' organised by Desh Bhagat University (DBU), Punjab, on August 26, 2022.
- Prof. Swati Biswas delivered a lecture on 'Intricacies of Drug Delivery via Nanomedicines: Benefits over

Conventional Therapies' at the International Symposium on Human Diseases, organised by the Department of Biological Sciences hosted by BITS-Pilani, Hyderabad Campus on November 12, 2022.

- Prof. Swati Biswas delivered a lecture on 'Hypoxia-reversing combination chemo-photodynamic therapy via nanomedicine for oropharyngeal carcinoma' at the Advances in Cancer Diagnostics and Therapeutics CRS local chapter on November 15, 2022.

## Department of Physics

- Prof. B. Harihara Venkataraman delivered an online lecture on 'Materials processes and characterization of rare earth doped layered ferroelectric ceramics for random access memory devices' for the International Conference on Advances in Functional Materials hosted by University of California, Los Angeles, USA from August 18-20, 2022.
- Prof. P K Thiruvikraman conducted a webinar on 'Mechanics' at Delhi Public School on September 2, 2022.
- Prof. P K Thiruvikraman delivered an online lecture on 'Recent Trends in Signal and Image Processing with hands-on training using MATLAB' for Faculty development at Lords Institute of Engineering and Technology on September 22, 2022.

## SPIC MACAY

The event was a joint effort by the Society for the Promotion of Indian Classical Music and Culture Among Youth (SPIC MACAY) and the National Service Scheme (NSS), Hyderabad. It was an enriching performance, following the lighting of the lamp, filled with the expertise in instruments and veteran voice of Sri Dhananjay Hegde. As cited by Sri Hegde, the event was an attempt to improve the culture and appreciation of Hindustani Classical music among the youth, which has now become a niche liking. The evening was lifted up in spirit with a passionate performance of Ragas, and an intriguing interactive session where he answered the audience's questions following the performance.



NSS BPHC team with Sri Dhananjay Hegde

## Sanctioned Projects (SRCD) During July-December 2022

Sl. No.	Title of the Project	Name of the PI	PI-Dept	Co-PI-Name	Co-PI-Dept	Funding Agency	Sanctioned-Amount (Rs)	Sanctioned date
1	Public transport policies and women's mobility in Indian cities	Dr. Rishi Kumar	Economics and Finance	NA	NA	Azim Premji University Research Funding Programme 2021	999,600	Jul 01, 2022
2	Allele mining for the epigenetic regulator NGRS and other yield-associated gene (GRF4) and their modulation using multiple genomic and molecular approaches to enhance rice yield under low nitrogen conditions	Dr. Gireesha T M	Biological Sciences	Dr. Sridev Mohapatra	Biological Sciences	National Agricultural Science Fund (ICAR-NASF)	14779000	Jul 05, 2022
3	Design and Simulation of Improved Polysaccharide based Membranes, the Future Must for Food Packaging	Prof. Durba Roy	Chemistry	NA	NA	DST SERB Power	2908400	Jul 07, 2022
4	Semiconductor-based thin-film coatings for mitigating nosocomial infections through antibacterial action under dark-light dual mode	Prof. Jayati Ray Dutta	Biological Sciences	Prof Ramakrishnan Ganesan	Chemistry	DST SERB Power	2556400	Jul 07, 2022
5	Cyber Physical System Enabled Wearable Devices	Prof. Sanket Goel	Electrical & Electronics Engineering			VitalProbe INC	1350000	Jul 13, 2022
6	Regeneration of Graphite anode and Li Metal recovery from used LFP Batteries	Dr. Afkham Mir	Chemical Engineering	Dr. Ankur Bhattacharjee, Dr. Alivelu Manga Parimi, Prof Sandip S Deshmukh	EEE, Mechanical	HBL	1318900	Jul 14, 2022
7	Prediction of RUL (Remaining Useful Life) of the Lithium-Ion Battery pack using machine learning techniques for second life usage	Prof. Alivelu Manga Parimi	Electrical & Electronics Engineering	Dr. Parikshit Sahatiya, Dr. Ankur Bhattacharjee, Prof Sandip S Deshmukh	EEE, Mechanical	HBL	1120900	Jul 14, 2022
8	Rights of Differently Aabled Women on behalf of the National Commission for Women	Dr. Shilpa Anand	Humanities and Social Sciences	NA	NA	National Commission for Women: Seminar	227000	Aug 25, 2022
9	Implementation of ionic liquids in crystallisation protocol: Applications in Crystal Engineering	Dr. Arijit Mukherjee	Chemistry	NA	NA	DST SERB SRG	3300000	Sep 13, 2022
10	Designing Metallo(salen) polymers for detection of phosphorylated peptides and proteins: Amplification of Signal via Disassembly Strategy	Dr. Nilanjan Dey	Chemistry	NA	NA	DST SERB SRG	3300000	Sep 13, 2022
11	Fit-to-All Anti-Malware Environment (FAAME): Universal Android Tool to Identify, Detect and Isolate Malware	Dr. Lov Kumar	CSIS	NA	NA	SERB SIRE	647386	Sep 22, 2022
12	Biosensor Monitoring of Signalling Dynamics in the Intracellular Pathogen Toxoplasma Gondii	Prof. Nishith Gupta	Biological Sciences	Prof Takeharu Nagai	Osaka University, Japan	DST IJSPS (India - Japan Society for the Promotion of Science)	764000	Sep 23, 2022
13	Simulation-based optimization framework for waste cold recovery in LNG regasification terminals	Dr. Arnab Dutta	Chemical Engineering	NA	NA	DST SERB SRG	1505870	Sep 26, 2022



Sl. No.	Title of the Project	Name of the PI	PI-Dept	Co-PI-Name	Co-PI-Dept	Funding Agency	Sanctioned-Amount (Rs)	Sanctioned date
14	Impact of age/age-related hearing loss on basal forebrain-modulated cortical neurophysiology – A search for therapeutic targets".	Dr. Srinivasa Prasad Kom-majosyula	Pharmacy	NA	NA	DST SERB SRG	2919400	Sep 26, 2022
15	Systematic evaluation of the role of IRE1 in the modulation of chronological aging via ER-mitochondrial crosstalk during chronic ER stress	Dr. Shuvadeep Maity	Biological Sciences	NA	NA	DST SERB SRG	2816156	Oct 14, 2022
16	Synthesis and characterisation of virantage VW10200RFP	Dr. Purnima	Chemical Engineering	Dr. Chanchal Chakraborty and Dr. Satyapal Singh	Chemistry and Chemical	DRDO CARS	1503084	Oct 18, 2022
17	Geometric Obnoxious Facility Location Optimization	Dr. Manjanna B	CSIS	Dr. N R Aravind - Mentor	IIT, Hyderabad	DST SERB TARE	1830000	Oct 19, 2022
18	Synthesis of transition metal-phosphate-based nanocomposites and investigation of their applications towards thermal energy storage, thermal management and solar thermal energy storage	Prof Sandip S Deshmukh - Mr. Rudrarapu Aravind	Mechanical	NA	NA	SERB NPDF	2236800	Nov 01, 2022
19	Pre-Clinical Efficacy Evaluation (In vivo) of synthetic peptides & its formulations - For the disease targets Involved Inflammatory pathways	Prof D Sriram	Pharmacy	NA	NA	Pravi Bio	1416000	Nov 05, 2022
20	Glucocorticoid receptor (GR)-targeted liposomal nano-platform for drug sensitization, EMT-reversal toward effective treatment of aggressive oral cancer	Dr. Kumar Pranav Narayan	Biological Sciences	Dr. Rajkumar Banerjee	CSIT-IICT, Hyderabad	DBT-1	5368360	Nov 18, 2022
21	Antibacterial, host-modulating and regenerative nanofibers membrane for guided tissue regeneration	Dr. Kumar Pranav Narayan	Biological Sciences	Dr. Jyotsendu Giri and Dr. Piyush Khandelia	IIT Hyderabad	DBT-2	7999000	Nov 22, 2022
22	High Precision, Miniaturised and Smart Colorimetric Device for Pesticide Quantification and Monitoring Applications in Food and Environment	Dr. Satish Kumar Dubey	Mechanical	Prof Sanket Goel and Dr. Arshad Javed	EEE and Mechanical	DST SERB CRG	3656389	Nov 24, 2022
23	Shellac Mediated Laser Induced Reduced Graphene Oxide (rGO) Films for Studying Docking of Biomarker at Nano-Bio Interfaces	Prof Sanket Goel and Chandrani Pramanik	EEE and Tata Steel Ltd	Vimal Kumar Sharma	Tata Steel Ltd.,	Tata Steel Limited	706820	Nov 28, 2022
24	Design and Simulation of a 325 MHz, 100 kW and 150 kW Inductive Output Tube(IOT)	Dr. Harish V Dixit	Electrical & Electronics Engineering	Dr. Prasant Kumar Pattanaik	EEE	DAE BRNS	2549600	Nov 30, 2022
25	DST FIST – Mechanical Engineering	DST FIST - Mechanical Engineering	Mechanical Engineering	NA	NA	DST FIST	11700000	Dec 12, 2022
26	Synthesis and thermoelectric properties of misfit compound combining a topological quantum material	Dr. Satya Narayan Guin	Chemistry	NA	NA	DST SERB CRG	6850206	Dec 19, 2022

Sl. No.	Title of the Project	Name of the PI	PI-Dept	Co-PI-Name	Co-PI-Dept	Funding Agency	Sanctioned-Amount (Rs)	Sanctioned date
27	Synthesis, Characterization and Catalytic Behavior of Atom Precise Metal-Oxide Nanoclusters	Prof Balaji Gopalan	Chemistry	NA	NA	DST SERB CRG	2506196	Dec 19, 2022
28	Single step' Conversion of CO <sub>2</sub> from Thermal Power Plant Exhaust to Dimethyl Ether	Prof Sounak Roy	Chemistry	Dr. B M Reddy and Dr. Satyapaul Singh	Chemistry and Chemical	DST SERB CRG	4469696	Dec 19, 2022
29	In situ Wittig-Horner reactions in dioxygen: Direct and facile access to versatile vinylene-linked small and polymeric $\pi$ -conjugates as potential molecular materials	Prof Manab Chakravarty	Chemistry	NA	NA	DST SERB CRG	4062696	Dec 19, 2022
30	Design and Synthesis of Microporous Adsorbents for Gas/Vapour Separation and CO <sub>2</sub> Capture	Dr. Himanshu Aggarwal	Chemistry	NA	NA	DST SERB CRG	4029696	Dec 19, 2022
31	Design and development of a miniature broadband vibration energy harvester to power biomedical implantable device	Dr. Brajesh Kumar Panigrahi	Mechanical	Prof Sabareesh G R and Dr. Kundan Kumar S	Mechanical	ICMR	1915226	Dec 23, 2022
32	Study of ergodic theorems for-actions on a group X, where is a subgroup of Aut(X)	Dr. Sharan Gopal	Mathematics	NA	NA	SERB MATRICS	660000	Dec 26, 2022
33	Completely Positive Maps and Quantum Conditional Entropy	Dr. Nirman Ganguly	Mathematics	NA	NA	SERB MATRICS	660000	Dec 26, 2022
34	A posteriori error analysis for parabolic integro-differential equations with positive type kernels	Dr. Gujji Mohana Murali Reddy	Mathematics	NA	NA	SERB MATRICS	660000	Dec 26, 2022

## Distinguished Talks / Lectures

Guest Lecture by	Organization	Topic of the Talk	Department	Date
Mr. Shaik Riyaz Ahammad	Maia Pharmaceuticals, Hyderabad	Research practices in the pharmaceutical industry and career prospects	Pharmacy	Sep 03, 2022
Karthikeyan Balan	Prism Consultant	Process Safety Management- Technical Management and Ethical issues	Chemical Engineering	Sep 15, 2022
Dr. Pratishtha Shukla	Oak Ridge National Lab, Tennessee, USA.	Maximising Research Opportunities Following Interdisciplinary Learning	Mathematics	Sep 19, 2022

Guest Lecture by	Organization	Topic of the Talk	Department	Date
Prof. Ashok Raichur	IISc, Bangalore	Nanomaterial-based interventions for improving efficacy and bioavailability of drugs	Pharmacy	Sep 29, 2022
Dr. Anupam Singh	Department of Biochemistry and Molecular Biology, Rutgers RWJ Medical School, Rutgers, the State University of New Jersey, USA	Mechanism and energetic cost of accurate DNA replication	Biological Sciences	Oct 10, 2022
Prof Srinivas Palanki	Department of Chemical and Biomedical Engineering, West Virginia University, USA	An overview of new modelling tools for simulation and control of chemical processes	Chemical Engineering	Oct 20, 2022
Prof. Ashoke Sarkar	Sr. Professor, IIT Jammu	Expertise in Transportation Economics & Interaction with FD, ME & Ph.D. Students	Civil Engineering	Oct 18 to 23, 2022
Prof Ajit Menon	Madras Institute of Development Studies, Chennai	The Discourse and Materiality of Brackish Water Shrimp Aquaculture in South India	Humanities and Social Sciences	Oct 21, 2022
Dr. Kutubuddin Molla	Crop Improvement Division ICAR-National Rice Research Institute (NRI), Cuttack, Odisha	Genome editing for Basic Biology, Agriculture, and Medicine	Biological Sciences	Oct 31, 2022
Prof. Stephen M. Lyth	International Research Center for Hydrogen Energy, Kyushu University, JAPAN	Recent Developments on Hydrogen Energy in Japan and the World	Mechanical Engineering	Nov 11, 2022
Prof. Volker Haucke	Leibniz Research Institute of Molecular Pharmacology	Lipid switches in cell physiology: From nutrient signals to disease	Biological Sciences	Nov 12, 2022
Dr. Pushkar Sharma	National Institute of Immunology, New Delhi	Signalling in the Malaria Parasite	Biological Sciences	Nov 12, 2022
Dr. Karthika Rajeeve	Rajiv Gandhi Centre for Biotechnology, Trivandrum	Metabolic reprogramming of host cells for the intracellular survival of Chlamydia trachomatis	Biological Sciences	Nov 12, 2022
Dr. Rajeeve Sivadasan	Rajiv Gandhi Centre for Biotechnology, Trivandrum	The role of Small GTPase in neurodegenerative disease	Biological Sciences	Nov 12, 2022
Mr. Nagraj Adve	Member of Teachers Against the Climate Crisis (TACC) and a member of a South Asian collective, SAPACC	The Acceleration of Climate Change	Humanities and Social Science	17, Nov, 2022
Dr. Sherin B.S.	Department of Comparative Literature and India Studies, The English and Foreign Languages University, Hyderabad.	Gender and 'the Muslim Question' in India	Humanities and Social Science	Nov 17, 2022
Prof. Jitendra Sangwai	Department of Chemical Engineering, IIT Madras	CO <sub>2</sub> Sequestration for Sustainable Energy Solutions	Chemistry	Nov 18, 2022



Guest Lecture by	Organization	Topic of the Talk	Department	Date
Ahana Ghosh	Machine Teaching Group, Max Planck Institute for Software Systems, Germany	Adaptive Scaffolding in Block-Based Programming via Synthesising New Tasks as Pop Quizzes	Mathematics	Nov 19, 2022
Dr. Kim Chi Vo	Humboldt University, Berlin, Germany	Plasticity and Therapeutic potential of cAMP and cGMP-specific Phosphodiesterases in <i>Toxoplasma gondii</i>	Biological Sciences	Nov 21, 2022
Prof Umesh Garg	Dept of Physics, University of Notre Dame	Seminar titled "Nuclear Incompressibility: How Collective Excitation Modes of a Nucleus Characterise Astrophysical Processes"	Physics	Nov 21, 2022
Samiran Chakraborty	Managing Director and Chief Economist India, Citibank	Navigating Global Shocks: Prospects and Policy Choices for the Indian Economy	Economics and Finance	Nov 22, 2022
Sayoree Gooptu	Jadavpur University	Issues in Overeducation and Private Tuition in India	Economics and Finance	Nov 22, 2022
Prof D Nagesh Kumar	Associate Faculty, Centre for Earth Sciences (CEaS) Associate Faculty, Divecha Centre for Climate Change (DCCC) Indian Institute of Science Bangalore	"Remote Sensing, GIS, and DEM for Water Resources Assessment"	Civil Engineering	Nov 26, 2022
Abhishek Anicca	Poet and Writer, Founder of DisLang	Disability Life Writing and the Disability Movement	Humanities and Social Science	Dec 3, 2022
Dr. Madhavi Jha	Centre for South Asian Civilizations, Department of Historical Studies, University of Toronto, Mississauga	Living or Subsisting?: Wages on Famine Public Works in Colonial India	Humanities and Social Science	Dec 8, 2022
Adithya Murali	University of Illinois at Urbana-Champaign	Going beyond deep learning	Mathematics	Dec 14, 2022
Prof. Subhas Chandra Mukhopadhyay, FIEEE (USA), FIEE (UK), FIETE (India)	Macquarie University, Sydney, Australia	Combo Sensors: Combinations of Sensors, ML, and AI for Smart Sensing	Electrical & Electronics Engineering	Dec 22, 2022
Dr. Dhanasekaran Shanmugam	CSIR-NCL, Pune	Delayed but Dead: A novel mechanism for compromising the apicoplast organelle of <i>Toxoplasma gondii</i>	Biological Sciences	Dec 29, 2022

## Student Events

### ATMOS '22

ATMOS '22 was scheduled from November 25-27, 2022. It is the technical fest of BITS Hyderabad Campus and showcases a plethora of amazing tech events. The fest featured a collection of student-led workshops on topics such as rocket science, machine learning, business analytics and much more. Not only that, the event hosted talks by big names such as **GeeksForGeeks founder – Mr. Sandeep Jain, ISRO stalwarts - Dr. Prakash Chauhan and Mr A Rajarajan and even Tollywood superstar – Adivi Sesh**. Attendees witnessed some of the best drone racers in the country go all out to win in IDRL's Drone Racing competition. And while we're talking about speed, another showcase was the display of a Formula E show car by Mahindra Racing for the first time in India that was displayed for the entire duration of the fest. The fest nights witnessed entertaining performances by Samay Raina and Arjun Kanungo energising the crowds.



Indian Drone Racing League event during ATMOS '22

A Tech Expo took place where participants could submit their designs to be exhibited and judged for a chance to bag prizes worth 1 lakh. The fest was loaded with competitions, quizzes and challenges with a sum total prize pool of 10 Lakhs. On the other hand, the excitement was not far off with the headliner event of the fest – Robowars – where professional teams built custom robots to duke them out in an in-house arena.



SAE Workshop during ATMOS '22

### Sanskriti

Sanskriti, or Ethnic Day 2022, was conducted on October 8, 2022. BITS Hyderabad became a bit more colourful for a day as most people decided to don traditional attire. The night was a celebration of all cultures and languages from all over the country, with regional associations putting together performances of dance, music and drama that represented their culture.



Sanskriti- Ethnic day celebrated by the student body

### Diwali Celebrations

The students and community at BITS-Pilani Hyderabad Campus celebrated Diwali from October 24 & 25. Most students stayed back on campus for the festival as their mid-semester exams were in less than a week. The days were filled with events such as rangoli competition, diya lighting, lantern lighting and even a Bollywood night. The entire campus looked festive with lights and diyas, and students and staff were dressed in colourful traditional attire to celebrate the festival of lights.



Lantern Lighting during Diwali Celebrations



Gifts to House keeping staff organised by Community Welfare

### Dandiya Night

On October 9, 2022 Umang, the Gujarati Association conducted a Garba/Dandiya night to celebrate Navratri.

Students and staff flocked to the quadrangle lawns in colourful kurtas and lehengas and danced to the beat of both Bollywood and traditional Garba music.



*Dandiya Night to commence Navratri celebrations*

## Durga Pooja Celebrations

As evening fell on Saturday, October 1, 2022 the Geetanjali and Utkal Samaj associations brought to campus a resplendent Devi for the first time in three years and ceremonially welcomed her with the Devi Vandana puja. Numerous competitions, and cultural performances highlighted the festivities. Multiple events took place, like the shankh-blowing, candle-lighting and roshogulla eating competition, followed by some genuinely adorable performances by the children of faculty members and staff. Overall, it was a fun celebration of Bengali culture with significant participation from students, professors, and everyone alike, making it a memorable event.



*Durga Pooja Festivities*

## Teacher's Day celebrations

Teacher's Day at BPHC was organised by RAF, involving a fun session giving the teachers and students a break from their extensive academic routine. Following the garlanding of Dr. Radhakrishnan's portrait, there was a stream of performances put up by the students, including a mock handout presentation to recreate a classroom environment, slam poetry, dances, songs and more, displaying their creativity and a flamboyant showcase of talents. The professors who attended the event also interacted with the students who performed. The performances continued into the informal part of the event, which witnessed the

pre-covid enthusiasm from students, reviving the culture of happiness and involvement among the students in their first fully offline and synchronised semester.



*Teacher's day celebrations organized by RAF*

## Hindi Diwas Celebrations

The auditorium was decorated to celebrate Hindi on September 17, 2022. People turned out in great numbers, filling up the auditorium in little to no while. The night saw a broad spectrum of emotions, from humour and jest of the Mushaira to mirth of the songs, from introspection about how we treat women to a realisation about academics, from nostalgia to hope.



*Hindi Diwas Celebrations*

## Homecoming '22

A night of dance and music was organised for the student body to celebrate the return of normalcy on campus with students coming back to campus. Students dressed in formal attire took to the stage to perform.

## TedX Community Meet

A long time tradition of the student chapter, the Community Meet of TedX BITS Hyderabad was held on November 19, 2022. As an in-house event, community meets provide the platform for BITSians to assemble, inspire and share. Mr. Anshul Sinha, a successful indie filmmaker as the guest speaker, headlined the 2022 community meet. They also had several students of the 2018 batch who took to the dias for the last time before graduating. Each of them shared their unique experiences, anecdotes and advice which proved invaluable to all of their juniors present, taking on the next chapter of their college life.



## ARC Tech Expo

The tech expo was held on the October 18-19, 2022. From drones to the Cube-D, the showcase involved an interesting range of projects, striking the curiosity of freshers just in the right places. A few of their projects were the Omnidirectional bot, using Mecanum wheels which facilitate a land-based vehicle to move in all directions, the

Sound Drums, which detected and captured the motion of the drumsticks and output the sound when the motion was detected in the air, the Cube-D, which used LED lights to create virtual games such as tic-tac-toe, and more, the Piano-tiles-esque model Dance Mania and the Leap Motion bot, which can be controlled using hand gestures and movements using the Leap Motion camera.

## Community Welfare Activities

### NSS - Independence Day Orphanage visit

On the occasion of India's 76<sup>th</sup> Independence, students from NSSBPHC visited various orphanages nearby and conducted fun events like housie and musical chairs to engage the children and gave them gifts to celebrate the occasion.



*NSS Independence Day Orphanage visit*

### NSS – Old Age Home visit

Students of NSS BPHC visited multiple Old age homes namely – Adarsh old age home, Karthikeya foundation and Mothers Nest old age home on the occasion of Grandparents Day. The students interacted with the elderly people to learn about their experience living in an old age home and gain insights on their lives.



*NSS Old age home visit*

### NSS - Diya Decoration Competition at ZPHS High School Thumkunta

NSS BPHC had organised a Diya decoration competition where a total of 160 students studying in 6<sup>th</sup> to 8<sup>th</sup> standard

participated. Students were educated on the harmful effects of firecrackers and were taught eco-friendly methods to celebrate Diwali. The students were made to light diyas and place them near the idol of Goddess Saraswathi to commemorate the visit.



*NSS Diya Decoration Competition*

### NSS – Cleanliness Drive

On the occasion of the NSS Day, a 'Cleanliness Drive' was conducted on campus where many volunteers joined hands to collect trash from all over campus. This event was used to encourage all residents of the campus to come together and maintain cleanliness.



*NSS – Cleanliness Drive*

## Partition Horrors Remembrance Day

Partition Horrors Remembrance Day or 'Vibhajan Vivishika Diwas' celebrations took place on August 14, 2022 in BITS-Pilani, Hyderabad Campus to commemorate the victims and sufferings of people during the partition of India in 1947. An exhibition, created jointly by the Indian Council of Historical Research (ICHR) and Indira Gandhi National Centre for the Arts (IGNCA), was displayed, followed by a small cultural program on 'Glimpses of Eternal India'.



Partition Horrors Remembrance Day

## Independence Day Celebrations

The 76<sup>th</sup> Independence Day was celebrated on August 15, 2022 in BITS-Pilani, Hyderabad Campus. The Independence Day began with an early morning 1.7 km run organised by the Student Welfare Division, which saw participation from students and staff. Prof G Sundar, Director, BITS-Pilani Hyderabad Campus, hoisted the National Flag. Patriotic song and dance performances by the community members followed the flag hoisting. This program, organised by the Community Welfare Unit, ended with prize distribution for the winners of the marathon and the distribution of sweets to all attendees.



Independence Day '22 Marathon



Independence Day '22 Flag Hoisting

## Children's Day Celebrations

Children's Day was celebrated at BITS-Pilani Hyderabad campus on November 12-13, 2022. The events consisted of a screening of children's movie – Makdee and fun activities for children of different age groups.



Children's Day Celebrations

## Medical Camps by Medical Centre

The Medical Centre conducted medical check-up camps (for breast and cervical cancer) for more than 100 women (outsourced employees and campus residents) over 3 days in December, 2022. A medical team from M.N.R Multi Speciality Hospital carried out mammograms, pap smear tests and doctor consultations (Oncologist & Gynecologist) as a precautionary measure for early detection of breast and cervical cancer.



Cervical Cancer Medical Camp

## Activities Conducted by Animal Management Committee

Animal Management Committee (AMC) has been active in neutering, vaccinating and adopting community dogs on campus. The committee has neutered 10 and vaccinated 45 dogs and pups with the help of Telangana Pet Adoption (TPA) an NGO and GHMC; 6 pups and 3 kittens were adopted; and 8 dogs were taken to the vet to be treated for illness.



Vaccination drive



## Student Artwork



Aditya Sharma



Anusha Makharia



Jovial Deka



Sakshi Singh



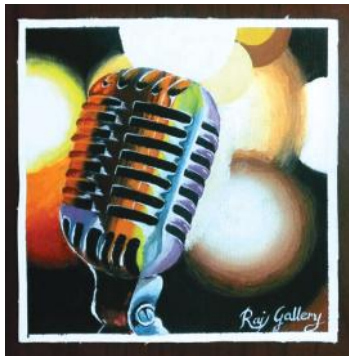
Khushi Jain



Shraddha Virkar



Mihika Katdare



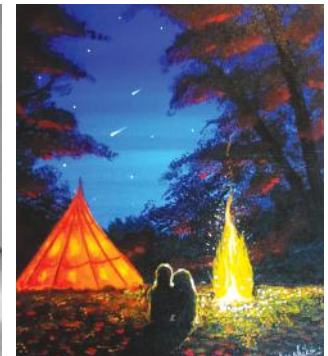
Rajeshwari Gunda



Rishi Sinha



YSN Kiran



Anshika Prakash



Har Ghar Tiranga



## Introducing New Faculty (July-December 2022)

The new faculty members who have joined between July-December 2022.

PSRN	Name of the Faculty	Designation	Department	Date of Joining
H0852	Jayaprakash K S	Assistant Professor	Mechanical Engineering	Aug 16, 22
H0853	Sushil Bhunia	Assistant Professor	Mathematics	Aug,16, 22
H0854	Tony Sebastian	Visiting Faculty	Humanities and Social Sciences	Aug 26, 22
H0859	Dave Jay Kamlesh	Assistant Professor	Computer Sci & Information Sys	Sep 9, 22
H0866	Amartya Sanyal	Associate Professor	Biological Sciences	Oct 10, 22
H0867	Prajna Devi Upadhyay	Assistant Professor	Computer Sci & Information Sys	Oct 12, 22
H0869	Atri Mukhopadhyay	Assistant Professor	Electrical & Electronics Engg	Nov 1, 22
H0882	Harsh Mittal	Assistant Professor	Humanities and Social Sciences	Dec 24, 22
ADJ0004	Lalit Kumar	Adjunct faculty	Electrical & Electronics Engg	Aug 1, 22

## Editorial Team



*Dr. Maya Vinai*



*Dr. Lavanya Suresh*



*Mr. Prasanth Inturi*



*Dr. Santosh Mahapatra*



*Ms. Lahari Gangineni*

*Credits and thanks to The Department of Photography (DoPY) for some of the pictures*



December 23, 2022, Eenadu

### HYDERABAD Mathematics Day at BITS

**BITS-Pilani, Hyderabad Campus on Thursday organised events to mark the 135th birth anniversary of Srinivasa Ramanujan, which is celebrated as National Mathematics Day. Prof Kapil Paranjape from IISER, Mohali, was the chief guest. Prof G Sundar, Campus Director, and Prof Sahoo, HoD-Mathematics, took part.**

### పర్యావరణ మార్పు నేటి ప్రధాన సమస్య!

పరిష్కార చర్యలను తీసుకుంటూ వెళ్తున్నాం. మన దేశం యొక్క పర్యావరణ మార్పును నిర్మూలన చేసి, దాని ప్రభుత్వం ద్వారా పరిష్కార చర్యలు తీసుకుంటూ వెళ్తున్నాం. మన దేశం యొక్క పర్యావరణ మార్పును నిర్మూలన చేసి, దాని ప్రభుత్వం ద్వారా పరిష్కార చర్యలు తీసుకుంటూ వెళ్తున్నాం.

### దివ్యాంగులను భావన వదలంలే

దివ్యాంగులను భావన వదలంలే. దివ్యాంగులను భావన వదలంలే. దివ్యాంగులను భావన వదలంలే. దివ్యాంగులను భావన వదలంలే. దివ్యాంగులను భావన వదలంలే.

### Physically challenged CRPF men keep fighting spirit alive with training on cyber tech, sports

విద్యార్థులు మరియు ఉద్యోగులు కలిసి పాల్గొన్న కార్యక్రమం. దివ్యాంగులను భావన వదలంలే. దివ్యాంగులను భావన వదలంలే. దివ్యాంగులను భావన వదలంలే. దివ్యాంగులను భావన వదలంలే.

August 30, 2022, Hindustan Times

### SBTET inks pact with BITS Pilani

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July 21, 2022, Telangana Today

### Annual tech fest 'ATMOS' begins at BITS Pilani

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November 29, 2022, Telangana Today

### BITS Pilani Hyd to support rocket startup Abyom

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July 14, 2022, Times of India

### Telangana govt and BITS Pilani WILP to develop engg labs

Telangana govt and BITS Pilani WILP to develop engg labs. Telangana govt and BITS Pilani WILP to develop engg labs.

July 25, 2022, Times of India

### BITS Pilani to launch online BSc degree in Computer Science with Coursera

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September 16, 2022 O Herald, GOA

### నమ్మక తెలంగాణ

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September 5, 2022 Namasthe Telangana



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