



## SIES Graduate School of Technology

The SIES Graduate School of Technology has come of age with its 17<sup>th</sup> batch passing out this year. It has made a mark in the technical education field as one of the best engineering colleges in Mumbai and ranked second in Navi Mumbai. GST students have excelled in all fields and have made their presence felt in a big way at the University, State and National levels

### List of University Merit Rankers of 2021-22 Examination:

Rank	Name	Degree
1	Mudaliar Shalini	PPT Dept. (CGPI:8.88)
2	Bhalwatkar Vedant	PPT (CGPI :8.87)
3	Desai Aarti	PPT (CGPI:8.83)

### I Collaboration (MoUs and other extra ordinary achievements)

- Department of Electronics and Telecommunication Engineering signed an MoU with Electronics Enterprises Pvt. Ltd. on 10.08.2022.
- Department of Computer Engineering: Impact sure: 19<sup>th</sup> July 2021, Duration: Signed for 5 years
- Project Titled “Key Financial Data” was successfully completed by faculty members Dr. Rizwana Shaikh, Prof. Ujwala Ravale, Prof. Pranita Mahajan between January and May 2022.
- Two Projects, one on “BlockChain based invoice system” and second one on “Auto scaling of cloud services” were assigned to the third year students for a period of one year from July 2022-June

2023 under the guidance of Dr. Rizwana Shaikh.

- Expert lecture delivered to the company Impact-Sure by Dr. Rizwana Shaikh.
- Seva Technologies: 22 Oct 2021, Duration: Signed is for 3 years.

## Institutional Social Responsibility (ISR)

SIES Graduate school of Technology stands with its vision of social empowerment and equality. The institute is committed to the task of inclusive social upliftment and equality. The management has adopted "Project Beacon" as our Institute level social responsibility (ISR). Project beacon incorporates for the targeted youth a set of training programme that is recognized by, and relevant to the requirement of industries and service providers. The courses like sewing tailoring, AC Mechanic, Electrician, computer operator, web designing. Project beacon is small step to give meaning and purpose to someone's life. The main objective is to provide an opportunity to untrained/unemployed/school drop outs youth through skill-based education.

The following is the details of different courses.

Sr. No.	Courses	Enrolled
1	Electrician	13
2	Web Designing	12
4	Sewing Tailoring	10
5	Computer Operator	19
6	Basic Ac Mechanic	12
	<b>Total</b>	<b>66</b>

## Initiatives

### Department of Electronics & Telecommunication Engineering

- EXTC Department received The Best IEEE MTTTS chapter award from IEEE Bombay Section on 10.12.2022.
- EXTC department Organised project competition on 30.09.2022 for second year and third year students.
- EXTC department initiated and completed consultancy project named "Python program development for alpha particulate monitor model" in 2022.

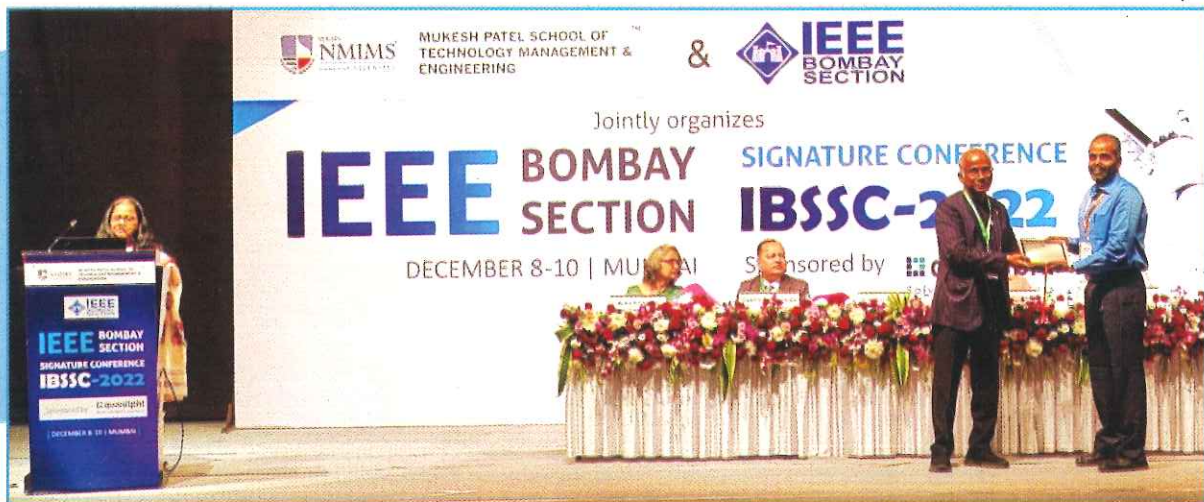
## Academic/Technical Achievements of Students

### Department of Mechanical Engineering

- BAJA students secured 3<sup>rd</sup> AIR rank out of 107 teams that participated in All India in Static sales event held in the month of January 2023.

### Department of Information Technology

- Mr. Namah Kohil, Ms. Nishika Patel, Mr. Sufiyan Dalvi students of Final year Information Tech. Dept. IT published a patent on 23.12.2022 for the invention titled "Citizenship card" under the guidance of Dr. K. Lakshmi Sudha.
- Mr. Atharva D, Ms. Dharani A, Mr. Surendra E, students of IT Dept. registered the copy right on 7.9.2022 for the work titled "Website Legitimacy and Automated fact checking" under the guidance of Dr. K. Lakshmi Sudha.
- Aftaab Ahmed Sheikh and Arfah Upade



MTTS-IEEE Awards

students of BE – Information Technology Secured second position in 16<sup>th</sup> Avishkar Research Convention (2021-22) in Engineering and technology domain. This event was organised by Mumbai University. Topic for this research competition was Pothole mapper for safer India.

- 26 students from the IT Department participated in the in the intra college project presentation competition and bagged prizes.
- 14 students completed internships in various companies such as ONGC, Home Revise Education Pvt.Ltd, Lab System, Innovators & You, Mentor Box and Grow90.
- Ms. Anjana Ashokkumar and Mr. Surya Madhavan received best paper presentation award in Conference for the title “Virtual Cloth Warping using Deep Learning” in WCASET, 2022.
- Mr. Anurag Nala, Mr. Hiten Sharma and Mr. Khush Patil of BE EXTC secured the third place in Project Management Institutes Make Reality Challenge 2021.
- Mr. Vatsal Kore, A, Ms. Anusha Ganapathy, Mr. Aaryan Kumbhar, Ms. Shruti Singh, Mr. Swapnendu Mukherjee, Ms. Krishnaveni

Doki, Ms. Harshita Shrivastav, Ms. Nandita Nandakumar and Prathamesh Patil attended IEEE AISYWLC 2022 at COE Pune between 7.10.2022 and 09.10.2022.

- Mr. Satyam S., Mr. Aarav Sinha, Mr. Tanmay Tandel and Mr. Tejas T. received the first prize in second year project competition held at SIES GST on 30.09.2022 as a part of Cognition 2022.
- Mr. Sameehan J, Chaitanya K., Anand K. and Adinath K received the second prize in second year project competition held at SIES GST on 30.09.2022 as a part of Cognition 2022.
- Mr. Nijesh N. Ms. Kinnari D, Mr. Prasad A. and Shruti W. received the first prize in third year project competition held at SIES GST on 30.09.2022 as a part of Cognition 2022.
- Mr. Rohan S., Mr. Soumya V., Mr. Vigneswaram G., and Ms. Sayali received the second prize in third year project competition held at SIES GST on 30.09.2022 as a part of Cognition 2022.
- More than 50 students from EXTC department presented and published papers in National and International conference and journals.



Ms. Prerna Aswal won the final inter college badminton tournament held at Mumbai University

## Department of Computer Engineering

- Department of Computer Engineering in collaboration with IIC cell organised Poster presentation competition on the theme “Case Studies on Start-ups in India and its Impact” on 17 August 2022.
- Kunal Soni, Pournima Pottekat, Gauri K. and Karthigeyan Raghavan secured the 1<sup>st</sup> place in Cognition BE Mini Project Competition for the topic “AR Based Tourism”
- Shetty Devesh, Singh Durgesh, Wani Bhavika, Yashwante Pratham secured the 1<sup>st</sup> place in Cognition TE Mini Project Competition for the topic “Interview assistance and assessment”
- Sushant Bhat, Aaditya Bonde, Mayank M, Ninad Konde secured the 1<sup>st</sup> place in Cognition TE Mini Project Competition for the topic “DAQ System”
- Iyer Jayaram Shivraj, Jadhav Apurv Dipak, Jadhav Soham Vikas secured the 1<sup>st</sup> place in Cognition SE Mini Project Competition for the topic “Games for children with learning difficulty (with implementation of pseudo random algorithm)”
- Mr. Sarvesh Moraskar and Gaurav Karande

won the 1<sup>st</sup> prize in Engima-National Level poster presentation competition on 28.01.2023.

- Mr. Anirudh Belawadi, Final year Engg. student (2022 graduated student) bagged Best Project to solve a big AEC problem award in AEC Hackathon, Copenhagen, Denmark.
- Paper titled “A Survey: Blockchain Enabled Land Registration And Agricultural Supply Chain Management” selected at ICRMIR-2023 of final year students of Computer Engineering Department. Authors are - Kalyani Pampattiwar, Suhasini Konar, Shreya Mhaske and Monish Rakesh.

## Sports Achievements

- Gaurang Kanetkar from T.E. (Mech) stood 2<sup>nd</sup> in University of Mumbai 400m swimming competition in September 2022.
- Final year Mechanical Engineering student Aaris Saudagar got selected for National Level Kickboxing Championship ‘WAKO India National Seniors & Masters Kickboxing Championship 2022’ and secured Bronze Medal in Team Kata,

Bronze Medal in team PF Kickboxing, and 5<sup>th</sup> place in Individual PF Kickboxing which was held in Chennai Tamil Nadu from 18<sup>th</sup>-22<sup>nd</sup> August, 2022.

- Ms. Srushti, Ms. Nishitha, Ms. Vaibhavee and Ms. Kruti from SE and TE IT participated and won third prize in “Girls volleyball University Tournament”, Mumbai University.
- Mr. Subodh Patil, Ankur Rai and Esakkiraja of TE IT participated and won First Position in volleyball Tournament Organised by VJTI on 31<sup>st</sup> January 2023 and participated and won Second Position in volleyball Tournament Organised by Bharati Vidyapeeth on 25<sup>th</sup> January 2023.
- Ms. Prerna Aswal second year EXTC student won the final inter college badminton tournament held at Mumbai University on 09.09.2022.
- Ms. Riya Singh of Final Year Information Technology branch secured 2<sup>nd</sup> position in Tug of War (Girls) during TML held in February 2023, SIES GST.

### › Department of Computer Engineering

- Purva Ambre of SE CE won the inter collegiate badminton tournament and stood third in the zonal level at University of Mumbai in September 2022.
- Aniruddha Patil and Sahil Pillai from CE Department won the Champions Cup Cricket tournament which was held on 1<sup>st</sup> and 3<sup>rd</sup> October for SIES Nerul campus.
- Aniruddha Patil and Sahil Pillai team from CE Department won the ICON inter-collegiate cricket tournament which was held on 25<sup>th</sup> and 26<sup>th</sup> November 2022.

## › Cultural Achievement

Shreya Sampath won a prize at university level in a cultural singing event in September 2022.

### › Other Activities

- Organised guest lecture for students of third year Mechanical Engineering on the topic “Applications of Robotics and automation in Industry” by Mr Swapnil Muley on 13.01.2023
- Organised a visit of Third year mechanical Engineering students to SMC Pneumatics India Pvt Ltd. on 28.01.2023.
- Organised an Industry interaction for faculty of Mechanical Engineering Department by Mr. Premkumar, Siemens India on ‘Digital Twins’ on 24.01.2023.
- Organised an industrial visit for TE Mechanical students at Gas power Station, Uran on 20.01.2023.
- Organised and conducted industry visit for SE students at Samiri Equipment & Engineers Private Limited on 9<sup>th</sup> April 2022

### › Technical Activities

#### Department of Computer Engineering

Six value added courses were conducted in AY 22-23

- **Competitive coding for DSA:** The Department of Computer Engineering organised a Value added course on “Competitive coding for DSA”, in May-June 2022, for second year engineering students from all branches, 34 students attended it.
- **Devops Technology:** The Department of Computer Engineering organised a Value added course on “Devops Technology”, in June 2022, for third year engineering students from all branches. 18 students attended it. Our Alumni Ajit Kumar as a

Devops Engineer at Deloitte conducted the session for one day.

- **Ethical hacking:** The Department of Computer Engineering organised a Value added course on “Ethical hacking” for the Second year and third year engineering students from all branches, between 27<sup>th</sup> June 2022 and 2<sup>nd</sup> July 2022. 33 students attended the SDP Industry expert Mr. Vikrant Pawar at Cyber – I consultancy services.
- **Advanced Java:** The Department of Computer Engineering organised a Value added course on “Advanced Java Programming” for the Second year and third year engineering students, from 25<sup>th</sup> - 29<sup>th</sup> December 2022. 12 students attended the SDP and industry resource person Mr. Piyush Atram, Tata Digital delivered the talk.
- **Web and Mobile application development:** The Department of Computer Engineering organised a Value added course on “Web and Mobile application development” for the Second year and third year engineering students, in December 2022. Industry expert Yashavi as a web developer and Anirudh Belwadi as a web developer at Full Team stack.
- **Competitive coding:** The Department of Computer Engineering organised a Value added course on “Competitive coding” for the Second year and third year engineering students, in December 2022.

#### **To improve problem solving, coding and soft skills in students**

- Conducted session on “Robotic process automation” on 12<sup>th</sup> February 2022.
- Conducted Webinar on “Soft Skills” for third year computer engineering students on 5<sup>th</sup> March 2022.
- Conducted Workshop on “Python Basics and Big data Introduction” on 26<sup>th</sup> March 2022.
- Conducted “Techno house competition” from 31<sup>st</sup> March 2022 to 1<sup>st</sup> April 2022.
- “Innovations national level project competition” conducted on 9<sup>th</sup> April 2022
- CSI Conducted Workshop on “Web Development” on 30<sup>th</sup> September by Mr. Abhishek Joshi, Mr. Anirudh Belwadi, for second year and third year computer engineering students. Students were introduced to MernStack which is a very efficient web development framework where we can combine systems like MongoDB, Bootstrap, and Express in order to develop efficient and responsive websites that are cross-platform compatible.

#### **To develop two in-house projects for Institute /department automation:**

- Two in-house solutions for Mentor Mentee scheme and faculty feedback as a part of department automation.

## **Doctoral Degrees**

- Dr. Ashwin Chavan, Faculty, Humanities & Applied Sciences was awarded Ph. D. in September 2022.

## **Research Grants**

### **Department of Information Technology**

- Ms. Seema Redekar published a patent on topic, “Analysis of Gene Co-expression network for identification of most influential genes linked with Glioma using network based centrality measures”, on 23<sup>rd</sup> September 2022.

## » Department of Electronics & Telecommunication Engineering

- Dr. Preeti Hemnani published a paper titled, "Virtual Cloth Warping using Deep Learning" in Scopus indexed journal, Resmilitaris January 2023.
- Mr. Biju Balakrishnan presented paper titled "Real time remote user controlled military robot" at IEEE ICAST 2022, KJ Somaiya IEIT, Sion on 03.12.2022.
- Ms. Sonal Hutke presented a paper titled "Design of T shaped UWB textile antenna for WiMax/WLAN application" at IEEE ICAST 2022, K J Somaiya IEIT, sion on 3.12.2022.
- Mr. Biju Balakrishnan. Published an article in IEEE R10 Connect Newsletter 4<sup>th</sup> issue "R10 student branch- IEEE SIES Graduate School of Technology SB" pp 28<sup>th</sup> - 29<sup>th</sup> December 2022.
- Ms. Pratibha Joshi published a paper titled "Past, Present and Future of Automated Mammographic Density Measurement for Breast Cancer Risk Prediction" in 4<sup>th</sup> International conference on ICAS. Vol.2327 on 23.09.2022.
- Prof. Pushkar Sathe published a paper titled "Helmet detection and number plate recognition using deep learning" got published in IEEE Xplore on 01.09.2022.
- Dr. Shubhangi Kharche attended conference & presented paper titled "Business meeting summarization system" in IEEE Asiancon 2022.
- Mr. Biju Balakrishnan published a paper titled "Vehicle anti-theft face recognition system, speed control and obstacle detection using R-Pi" in IEEE ROMA 2022 during 06.08.2022 to 08.08.2022
- Ms. Madhuri Kkularni published a paper on "Credit Card Fraud Detection using Machine Learning", in UGC approved journal of International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 10, Issue 8 August 2022.
- Dr. Shubhangi Kharche presented and published a paper in International Conference-AECE proceedings on cotton leaf disease detection using ML held on 14<sup>th</sup> and 15<sup>th</sup> July 2022.
- Ms. Vaishali Mangrulkar presented and published a paper in International Conference-AECE on IOT based social distancing and monitoring robot for queue held on 14<sup>th</sup> and 15<sup>th</sup> July 2022.
- Prof. Sonal Hutke presented a paper in International Conference-AECE on Implantable antenna for Biomedical applications on 15.07.2022.
- Prof. Vandana Sawant presented a paper in International Conference-AECE on Contagious Disease Preventing Chamber Using Raspberry Pi held on 14<sup>th</sup> and 15<sup>th</sup> July 2022.
- Prof. Swati Rane presented a paper titled effective strategies for detection of abnormal activities in surveillance video streams in Soft computing and signal processing Springer conference on 24.06.2022.
- Dr. Shubhangi Kharche registered copyright for Conceptual Framework Of Webcrawler on 27.06.2022.
- Dr. Shubhangi Kharche registered copyright for Conceptual Framework For 6G Intelligent Healthcare on 22.04.2022.
- Ms. Pratibha Joshi presented a paper at 4<sup>th</sup> International Conference on Intelligent Circuits and Systems (ICICS 2022) on 9<sup>th</sup> April 2022 at Lovely Professional University Punjab.



H&amp;AS Induction

- Dr. Shubhangi Kharche published a paper titled Interoperability Issues and Challenges in 6G Networks in Journal of mobile multimedia on 04.04.2022.

## I Seminars/Workshops organised/attended

### » Humanities & Applied Science Department

- Dr. Pooja Singh was awarded the IEEE India Council's "Woman Technologist of the Year" award on 10.11.2022.
- Prof. Mahesh Biradar, Prof. Somnath Pawar and Dr. Ramkishan Bhise published patent on "Design and development of deep learning algorithm for mammographic breast density for breast cancer prediction" on 08.07.2022.
- Prof. Ashwin Chavan paper entitled "Some Results on Fixed Point Theorems In Complete Dislocated Quasi-Metric Space" published in the journal Advances and Applications In Mathematical Sciences - UGC Approved - May 2022.
- Dr. Ashwin Chavan coauthored a book entitled "Engineering Mathematics I" - Tech Neo Publication for University of Mumbai FE syllabus.



FDP was organised on Research in Digital Age

- Prof. Mahesh Biradar published paper entitled "A study of enhancing security in healthcare using blockchain" UGC Care listed, Peer Reviewed and Refereed Journal- June 2022.
- Prof. Vijaya Patil was a recipient of the honor of an "Inspiring Women Awards 2022" from e Public News 24 in the STEM category for her contribution in the field of Applied Mathematics as a founder of you tube channel "The Math Virtuoso - master any concept of math in 20 mins"
- Prof. Vijaya Patil published a paper entitled "The making of box-office collection: qualitative insights from Bollywood" in Marketing Intelligence & Planning journal, Scopus indexed and UGC approved journal, June 2022.
- Dr. Pooja Singh's paper entitled "Dependability Analysis of Safety Critical and Control Systems of NPP", was published in Nuclear Engineering and Design, Elsevier Oct 2022 and she published a book chapter entitled "Nuclear Reactors - Spacecraft Propulsion, Research Reactors, and Reactor Analysis Topics" in book Reliability Analysis of Instrumentation and Control System, Oct 2022.
- Dr. G. Kanthimathi published a paper entitled "Enhanced SHG performance



of Cd 2+ doped DAST crystal featuring charge exchange owing metal ion-organic ligand for NLO applications” published in Inorganic chemistry communication journal Scopus indexed and UGC approved journal July 2022.

- Dr. Ram Kishan Bhise published a paper entitled “The portrayal of Indian freedom movement in R.K.Narayan’s waiting for the Mahatma” in Journal of Education: Rabindra Bharati University (Print only) ISSN : 0972-7175 (UGC Care listed, Peer Reviewed and Refereed Journal) March 2022.
- Dr. Smitha Kumar presented a paper in 7<sup>th</sup> International Conference on Innovation and Research in Technology and Engineering (ICIRTE 2022) – 8<sup>th</sup> and 9<sup>th</sup> April 2022.
- Dr. G. Kanthimathi presented a poster in INUP Nano familiarization workshop held by IIT-Bombay during 23<sup>rd</sup>-25<sup>th</sup> January 2022.
- A FDP was organised by Department of H&AS on Research in Digital Age by Dinesh Ku. Singh, Group Leader, TCS on 15<sup>th</sup> Oct 2022. Prof. Seema Khan and Prof. Mahesh Biradar were the coordinators for the webinar.

## Department of Mechanical Engineering

- Organised and conducted industry visit for TE students at Warne Dairy plant, Nerul on 23<sup>rd</sup> April 2022.
- Department organised and conducted a two week SDP value-added course on ‘Computer-Aided Manufacturing’ for SE, TE and BE students from 20<sup>th</sup> June to 1<sup>st</sup> July 2022.
- Department organised and conducted a one week in-house internship on ‘Machine

Maintenance’ for SE, TE and BE students from 4<sup>th</sup> July to 9<sup>th</sup> July 2022.

- Department organised two week SDP value-added course on Computer-Aided Manufacturing for SE, TE and BE students from 23<sup>rd</sup> June to 6<sup>th</sup> July 2022
- Organised and conducted SDP industry expert seminar session on ‘Product design and 3D printing, and career prospects in plastic processing industry’ by AIPMA, Mumbai for TE and BE students on 6<sup>th</sup> October 2022
- Prof. Chandan Chaudhari conducted SDP Arduino Workshop under SAE, SIES GST open for students from all branches and year on 30<sup>th</sup> September 2022.
- Organised a workshop on Arduino on 30<sup>th</sup> September 2022 by SAE student chapter 70 students participated
- BE students (4 project groups) and TE students (3 mini-project groups) participated in ‘Cognition 2022 Project competition’ organised by SIES GST, Navi Mumbai on 30<sup>th</sup> September 2022.
- Department organised and conducted SDP Arduino Workshop under SAE, SIES GST open for students from all branches and year on 30<sup>th</sup> September 2022.
- Students were offered value added programs for internal internship in various domains between 19<sup>th</sup> December to 7<sup>th</sup> January. The Mechanical department conducted value added program on Robotics and automation from 2<sup>nd</sup> to 7<sup>th</sup> January 2023.
- 40 students did external internships in various industries during winter break.
- Cognition Project Competition organised in Mechanical department on 30<sup>th</sup> September 2022. Conducted expert lecture on Plant Automation using Robot and PLC given by Mr.Swapnil Mule, Emcure Pharmaceuticals

- Ltd on 13<sup>th</sup> October 2022 for TE Mech students.
- Conducted ISHRAE Installation Ceremony and Talk given by Industry experts from ISHRAE on 11<sup>th</sup> October 2022 for Mechanical students.
  - Prof. Prashant Ambadekar received certificate of appreciation for active support as Faculty Advisor during Student Convention 2021-22 from SAEINDIA Western Section in July 2022.
  - Prof. Prashant Ambadekar, Dr. Rupendra Nehete and Mr. Yogesh Panchal conducted two week SDP value-added course on Computer-Aided Manufacturing for SE, TE and BE students from 23<sup>rd</sup> June to 6<sup>th</sup> July 2022.
  - Dr. R. S. Nehete published a paper in Springer titled Numerical Analysis to Investigate the Effect of Solidification Parameters on the Pull-In Effect of Continuous Casting, Applications of Computation in Mechanical Engineering, Springer, Singapore, Lecture notes in Mechanical Engineering, 29<sup>th</sup> November 2022, pp 313-325 (ISBN: 978-981-19-6032-1)
  - Dr. Pradip P. Patil presented a research paper on "Investigation of Quality of clean-Cut surface for sheet metal blanking using Decision Tree" in an international conference on intelligent manufacturing and automation organised by D J Sanghvi College of Engineering, Mumbai 18-19 November 2022.
  - Dr. Lokpriya Gaikwad presented a research paper on "Cost of Poor-Quality analysis in Auto Industry: A case study" in an international conference on intelligent manufacturing and automation organised by D J Sanghvi College of Engineering, Mumbai 18<sup>th</sup>-19<sup>th</sup> November 2022.
  - Dr. Lokpriya Gaikwad published a book on "Logistics & Supply chain management" for final year Mechanical students in Nirali Prakashan, Nov. 2022. ISBN: 978-93-95951-46-3.
  - Dr. Lokpriya Gaikwad published a book on "Project Management" for final year in Nirali Prakashan, Jan. 2023, ISBN: 978-93-5451-924-6 and published a paper on "Applications of Lean Six Sigma: A Literature Review" in the journal of Thermal Energy Systems, Vol. 7, Issue 3, Dec. 2022. EISSN: 2582-5747.
  - Prashant K. Ambadekar and Mohammad Ali Ansari published a book on "Mechanical Measurements and Control" for Mechanical Engineering in Nirali Prakashan. The ISBN number of the book is ISBN 978-93-5451-679-5 and published a book on "Product Lifecycle Management" for Engineering in Nirali Prakashan. The ISBN number of the book is ISBN 978-93-9595-115-9.
  - Dr. R. S. Nehete published a paper on "Numerical Analysis to Investigate the Effect of Solidification Parameters on the Pull-In Effect of Continuous Casting in Lecture Notes in Mechanical Engineering springer publication.
  - Dr. L. M. Gaikwad published a paper on Cost of Poor-Quality Analysis in Auto Industry: A Case Study, 2<sup>nd</sup> March 2023 Lecture Notes in Mechanical Engineering springer publication.
  - Dr. R. S. Nehete and Prof. Chandan Chaudhari presented a paper on "comparative study between conventional method and computer aided vision aided by fluducial maker for dimensional analysis of simple mechanical element" in international conference held at LTCOE on 17<sup>th</sup>-18<sup>th</sup> March 2023 and got best paper award.

- Prof. Chandan Chaudhari and Dr. L. M. Gaikwad presented paper on The effect of Lean six sigma practices on organizational performance: a machine learning approach in International conference held at NIT Jalandar and won the best paper award on 12<sup>th</sup> March 2023.
- Conducted project poster presentation for BE mechanical students on 25<sup>th</sup> March 2023. One industry expert and academic expert evaluated the performance and prizes were given to students.

### › Department of Information Technology

- Prof. Seema Redekar secured second rank for the research project titled, "Analysis of gene co-expression network for identification of most influential genes associated with GBM" in Final Round of 17<sup>th</sup> Inter-Collegiate/Institute/Department Avishkar Research Convention: 2022-23 organised by University of Mumbai, Department of Student Development. Also she represented Mumbai University in Maharashtra State Inter-University Research Convention (Aavishkar 2022-23) in Engineering and Technology Category, Post PG Level.
- Dr. K. Lakshmi Sudha, Ms. Aanchal, Mr. Samarjeet, Ms. Soham presented a paper titled "College Election system using Blockchain" in international conference on 7<sup>th</sup>-8<sup>th</sup> April 2022 organised by D. Y. Patil Deemed to be University.
- Dr. K. Lakshmi Sudha, Mr. Atharva, Ms. Dharani, Mr. Surendra have submitted copy right on work "Website Legitimacy and Automated fact Checking" on 22.04.2022.
- Prof. Leena Ladge, Mr. Mahendra Choudhary, Mr. Rohit Sartandel, Mr. Anish Arun, presented a paper titled "Crop Recommendation System and Plant Disease Classification using Machine Learning for Precision Agriculture" in "International Conference on Artificial Intelligence: Advances and Applications" on 23<sup>rd</sup>-24<sup>th</sup> April 2022 organised by Poornima College of Engineering, Jaipur.
- Ms. Mrinal Khadse, Ms. Sarabi, Ms. Pavitra, Mr. Vikrant presented a paper "Secure asset transaction using Blockchain" in International conference on 7<sup>th</sup>-8<sup>th</sup> April 2022 organised by D. Y. Patil Deemed to be University.
- Prof. Savita Lohiya, Ms. Arfah Upade, Ms. Anathaselvi, Ms. Shweta Pai presented a paper in 10<sup>th</sup> IEEE conference on Emerging trends and Engineering and Technology signal and Information processing on 29<sup>th</sup>-30<sup>th</sup> April 2020 organised by Raisoni College, Nagpur.
- Ms. Stuti Ahuja, Melvina Pushpam, Vaishnavi Mantri and Malvika Selven presented a paper "Natural Disaster Detection using Satellite Images and Social media" in International conference on 7<sup>th</sup>-8<sup>th</sup> April 2022 organised by D. Y. Patil Deemed to be University.
- Ms. Stuti Ahuja, Aftaab Shaikh, Shubhadarshini Nadar and Vanitha S. Presented a paper " Vide Descriptor using Attention Mechanism", in Springer conference on 22<sup>nd</sup> and 23<sup>rd</sup> April 2022
- Prof. Savita Lohiya, Mr. Suraj Iyer, Ms. Rabiya, Ms. Snehal Wagh published a paper in IJREAM Journal. Volume O8, Issue O1, ISSN 2454-9150
- Mr. Amit Pandhare, Mr. Bharat N, Mr. Nimish N, Mr. Kartik S. submitted copy right on "Leveraging blockchain for creation of EHR" on 16.04.2022.
- Ms. Samundiswary Srinivasan, Mr. Yassar Mohammed, Mr. Sidhesh Iyer and

Mr. Ameyash Nagarajan presented paper "Dota2 draft recommendation system" in 6th International conference on Trends in electronics and informatics (ICOEI 2022) organised by SCAD Institute of Technology, Tirunelveli on 30.04.2022

- Dr. Gayatri Bachhav, Mr. Dhruv Patil, Mr. Rohit Kore, Ms. Priti Ingale presented a paper titled "House Price Prediction System Using Machine Learning" in International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-08, Issue-01, APR 2022
- Dr. Gayatri Bachhav, Mr. Sushant Wani, Mr. Rushikesh Pawar, Mr. Rohan Randhir presented a paper titled "Tourist Place Reviews Sentiment Classification Using Machine Learning Techniques" in International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-08, Issue-01, APR 2022.
- Dr. Shivaji Pawar, Ms. Pratibha Joshi, Ms. Vishwayogita Savalkar presented a paper "Past, Present and Future of Automated Mammographic Density Measurement for Breast Cancer Risk Prediction", in 4<sup>th</sup> International Conference on Intelligent Circuits and Systems on 8<sup>th</sup>-9<sup>th</sup> April 2022.
- Ms. Seema Redekar presented the paper entitled 'A Survey on Community Detection Methods and its Application in Biological Network' in IEEE International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2022) on 10<sup>th</sup> May 2022, presented the paper entitled 'AI Based E-Commerce Web Application For Event Management' International Conference on Contemporary Engineering And Technology (ICCET 2022) on 21<sup>st</sup> May 2022, presented the paper entitled 'IOT Based Smart Security and Surveillance System', in International Conference on Contemporary Engineering And Technology (ICCET 2022) on 21<sup>st</sup> May 2022 Presented the paper entitled 'Heart Rate Prediction from Human Speech using Regression Models', in IEEE World Conference on Applied Intelligence and Computing (AIC 2022) on 17<sup>th</sup>-19<sup>th</sup> June 2022 and Presented a paper titled "Extrication of Survival Associated Genes of Glioblastoma Multiforme Patient through Statistical Modeling", at 5<sup>th</sup> International Conference on Advances in Science and Technology (ICAST), organised by K. J. Somaiya Institute of Engineering and Information Technology, Mumbai on 2<sup>nd</sup> December 2022.
- Ms. Savita Lohiya Published paper titled "Sign Language Recognition Using Tensor Flow Object Detection", in International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: May 05, 2022.
- Ms. Bushra Shaikh published the paper entitled "Admin Panel for Heterogeneous Databases" in International Journal of Scientific Research in Engineering and Management (IJSREM), ISSN: 2582-3930, Volume 06, Issue 05 May 2022.
- Prof. Leena Ladge published the paper titled "Temperature Estimation in Multi-Core Processors using Statistical Approach for Task Scheduling" in part of the Springer book series Lecture Notes in Networks and Systems (LNNS, volume 461).
- Prof. Seema Redekar and Prof. Stuti Ahuja published a paper "Abnormality Detection and Localization in X-Rays Using Convolutional Neural Networks"

- in METSZET Journal, vol 7, issue 12 in December 2022.
- Dr. Lakshmi Sudha presented a paper titled “A Smart Hydroponic Farming System Using Machine Learning” at the International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (ICIITCEE 2023) held on 27<sup>th</sup> and 28<sup>th</sup> January 2023 at BNM Institute of Technology, Bengaluru, India.
  - Dr. Lakshmi Sudha Kondaka published a paper titled “Automated Stock Trading using Deep Q-learning” in METSZET Journal(scopus indexed ), Volume 8, issue 1, January 2023.
  - Dr. Lakshmi Sudha, Prof. Leena Ladege, Prof. Mrinal Khadse, Prof. Savita, Prof. Seema Redekar, Prof. Stuti Ahuja, Prof. Bushra S, Prof. Samundiswary reviewed Research Papers for 5<sup>th</sup> International Conference on Advances in Science and Technology, IEEE-ICAST 2022 organised by K. J. Somaiya Institute of Engineering & Information Technology.
  - Prof. Leena Ladge and Prof. Savita Lohiya organised. “Projexions”, poster presentation competition for BE students based on their final year projects, under IETE Students’ Forum, on 21<sup>st</sup> April 2022.
  - Prof. Leena Ladge organised Techxter 11.0, a National Level Technical Paper Presentation Competition under IETE Students’s Forum, on 7<sup>th</sup> April 2022, organised a session on “SAP for ERP Implementation”, for ERP students of BEIT, conducted by Mr. Nikhil Ambati, Accenture, on 12<sup>th</sup> April 2022 and organised an Orientation Programme under IQAC for new faculty members of SIESGST on 10<sup>th</sup> September 2022, had organised an awareness session on “ Financial Planning and Wealth Management”, under IQAC in collaboration with CTD-SIES, on 12<sup>th</sup> September 2022, had organised “Panel Discussion 2022 - Entrepreneurship Development”, under IETE Students’ Forum in collaboration with EDC under MHRD, on 13<sup>th</sup> September 2022, organised “Ideation’22”, an Idea generation Competition under IETE Students’ Forum in collaboration with EDC under MHRD, on 30<sup>th</sup> September 2022.
  - Prof. Stuti Ahuja published a paper “Semantic understanding of high spatial resolution remote sensing images using directional geospatial relationships, Annals of GIS, DOI: 10.1080/19475683.2023.2181394, March 09,2023. (Taylor & Francis Journal), had reviewed paper for the Elsevier journal “Array” and reviewed papers for the 1<sup>st</sup> International Conference on Recent Trends in Multidisciplinary Research and Innovation ICRMIR-23 Organised by Lokmanya Tilak College of Engineering On 17<sup>th</sup>-18<sup>th</sup> March 2023, attended STTP on “Research Trends in Data Science” held during 27.02.2023 to 04.03.2023 organised by MKSSS’s Cummins College of Engineering for Women, Pune, Maharashtra.
  - Prof. Bushra Shaikh presented the paper entitled “eKisaan - A B2B Agricultural Platform to Enhance the Production of Crops using Machine Learning” at 2<sup>nd</sup> International Conference on Sustainable Computing and Data Communication Systems (ICSCDS) 2023 on 24<sup>th</sup> March 2023 had attended an Online webinar on ‘Algorithmic trading using Machine

Learning' held on 11<sup>th</sup> March 2023 by TEC, ISTE student chapter.

- Ms. Samundiswary S presented a paper "Examine (Exam Cell Management using OCR) Third International Conference on Artificial Intelligence & Smart Computing (ICAISC 2023)" organised by the Department of Computer Science and Engineering- Bannari Amman Institute of Technology during 9<sup>th</sup> March 2023.

### Department of Electronics & Telecommunication Engineering

- Dr. Preeti Hemnani and Ms. Pranavi Nikam organised and conducted SDP on "Digital system design on FPGA Design using Verilog" during 02.01.2023 to 07.01.2023.
- Mr. Vishal Gaikwad and Ms. Vaishali Mangrulkar organised and conducted student development program on "Workshop on Embedded System Design Using Arduino Uno" during 02.01.2023 to 07.01.2023 .
- IEEE SIESGST Organised IEEE Xtreme 16.0 Programming Competition during 22.10.22 to 23.10.2022, organised expert session on Robotics and its applications on 15.10.2022 by Ms. Dharini Dutia, Software Engineer, Open Robotics, USA, organised IEEE Year book TECHNOZINE launch Ceremony on 01.08.2022, organised IEEE Investiture 2022 ceremony on 01.08.2022, organised expert session on Networking security on 15.10.2022 by Mr. Bhargav Upadhyay, From NTT global Networks, organised Inspect Element 2.0 National level Front end Web development competition on 08.08.2022, organised international three days Symposium-Epsilon 2022 on topic Cyber security-Conclave, Blockchain Conference and 5G & IoT security during 13.08.2022 to 15.08.2022, organised alumni interaction in After Graduation episode 1 with Sahil Pandita on 19.06.2022, organised alumni interaction in After Graduation episode 2 with Dharini Dutia on 26.06.2022, organised Selenium: MTTS Webinar-Power Beaming and Space Solar on 11.04.2022 and organised Selenium:CS Workshop- Unboxing the Web on 11.04.2022.
- A student development program was organised on "IP and ML using python" during 27.06.2022 to 15.07.2022. SDP conducted by Dr. Preeti Hemnani, Prof. Swati Rane, Prof. Pushkar Sathe and Prof. Shyamala Mathi.
- A student development program was organised on "workshop on Raspberry-Pi" during 27.06.2022 to 15.07.2022. SDP conducted by Prof. Vishal Gaikwad, Prof. Vaishali Mangrulkar and Prof. Nita Patil.
- A student development program was organised on " Advanced Antenna design" during 27.06.2022 to 4.07.2022. SDP conducted by Prof. Vandana Sawant, Prof. Sonal Hutke and Prof. Hema Raut.
- Prof. Biju Balkrishnan, Faculty, EXTC department published a paper titled "Real-time Remote User Controlled Military Robot" in IEEE explore, attended 5 days FDP on Recent Trends in High Frequency Communication during 20.02.2023 to 24.02.2023 by Dr. Somak Bhattacharyya, IIT Varanasi at Annant Gyan Knowledge and Skills Pvt. Ltd and organised Research Lab visit at VJTI and arranged an interactive session with Dr. Faruq Kazi, Dean R&D, VJTI for BE students on 24.02.2023.
- Dr. Shubhangi Kharche published a paper in Journal of Mobile Multimedia

“6G Intelligent Healthcare Framework: A Review on Role of Technologies, Challenges and Future Directions” on 22.02.2023, Copyright registered on topic A Simple Life Literary/ Dramatic and oorganised expert talk on Applications of Linux in Industry for students on 15.02.2023 by Mr. Gaurav Shikhare, Senior Consultant at Capgemini India Technology Services.

### Department of Computer Engineering

- Dr. Deepti Reddy, Prof.Sunil K Punjabi, Prof.Suvarna Chaure, Prof. Prachi Bahurupi published a provisional patent on “A Low-Density Polyethylene (LDPE) Sorting System” in July 2022.
- Prof.Arathi Boyanapalli’s Patent on “Device to detect Ovarian Cancer” with application ID 372990-001 accepted.
- Dr. Rizwana Siddiqui filed and published a patent “An Ameliorated Electronic Mail Management System and Method” on 10<sup>th</sup> October 2022.
- Dr. Aparna Bannore presented and published a paper titled “A Garbage Profiling System Using Mask R-CNN Deep Learning Algorithm,” 2022 International Conference for Advancement in Technology (ICONAT), Goa, India, Dec2022.
- Dr. Deepti Reddy published a paper on “Student Behavior Models in Ill-structured Problem-Solving Environment” in the International Conference on Artificial Intelligence in Education AIED2022 in June 2022, and published in Lecture Notes in Computer Science, vol 13355. Springer, Cham. [https://doi.org/10.1007/978-3-031-11644-5\\_46](https://doi.org/10.1007/978-3-031-11644-5_46)
- Dr. Varsha Patil published a paper titled “Real time convolution neural network for emotion classification” in international conference Breakthrough in Heuristics and Reciprocation of advanced technologies on 7<sup>th</sup>-8<sup>th</sup> April 2022.
- Dr. Varsha Patil published 4 papers titled “Real time water quality management using IoT”, “Eye disease classification using Deep neural network”, “Picking Robot”, “Fire and smoke detection system” in international conference on trends in Engineering, Applied science and management IC Team 2022 on 8<sup>th</sup>-9<sup>th</sup> April 2022. The paper titled “Eye disease classification using Deep neural network” got the Best paper Award.
- Prof. Suvarna Chaure Published a paper on “Clinical Healthcare System using Data mining”, IJREAM, May 2022.
- Prof. Sunil Punjabi and Prof. Suvarna Chaure presented a paper in IEEE, 2<sup>nd</sup> International Conference on Intelligent Technologies titled “Forensic Intelligence-Combining Artificial Intelligence with Digital Forensics” on 15<sup>th</sup>-17<sup>th</sup> June 2022.
- Prof. Suvarna Chaure Presented a Paper on “Vaccine Supply Mgmt” IEEE, IC3SIS on 23<sup>rd</sup> June 2022.
- Prof. Sunil K Punjabi presented a paper titled “Forensic Intelligence – Combining Artificial Intelligence with Digital Forensics” in IEEE, 2<sup>nd</sup> International Conference on Intelligent Technologies on 24<sup>th</sup>-26<sup>th</sup> June 2022.
- Prof. Ujwala Ravale presented a paper in 2<sup>nd</sup> International Conference on Sentiment Analysis & Deep Learning titled “Breast Cancer Detection using Machine Learning” on 16<sup>th</sup> and 17<sup>th</sup> June 2022.
- Prof. Ujwala Ravale published a paper on Soil Monitoring and Fertilizer Recommendation System, IOSRJEN, June 2022.

- Prof. Kalyani Pampattiwar's paper titled- "CBSOACH: design of an efficient consortium blockchain-based selective ownership and access control model with vulnerability resistance using hybrid decision engine" was accepted in SCI indexed International Journal of Computational Science and Engineering by Inderscience and listed in Forthcoming.
- Prof. Kalyani Pampattiwar's Paper titled- "An empirical evaluation of blockchain security models from a fuzzy statistical perspective in peer reviewed journal " International Journal. Of Blockchain and Cryptocurrencies" by Inderscience.
- Prof. Kalyani Pampattiwar published a Book chapter titled, "Security and Privacy Facets of Electronic Health Record" in a book titled Unleashing the potentials of Blockchain Technology for Healthcare Industries.
- Prof. Kalyani Pampattiwar filed for a software copyright dated 7<sup>th</sup> December 2022. Current status is under Scrutiny.
- Prof. Namrata Patel presented a paper titled "Depression detection using ML" in international conference on trends in Engineering, Applied science and management IC Team 2022 on April 8-9, 2022.
- Prof. Namrata Patel published a paper on Attribute based privacy preservation AIC June -2022.
- Prof. Masooda Modak published a paper titled "Learning traits and capture mode of Learning disability with classification in e-learning for detecting learning Disability using Machine Learning" in scopus index journal International Journal of health sciences (IJHS) in May 2022, Vol 6 No S1/S2/S3/S4 with DoI/URL.
- Prof. Masooda Modak Published a paper on "Depression Detection using ML", International Conference on Trends in Engineering, Applied Sciences and Management (IC-TEAM) to be held on 8<sup>th</sup>-9<sup>th</sup> April 2022 at St. John College of Engineering and Management, Palghar, Maharashtra, India.
- Prof. Anindita Khade published a research paper in Scopus indexed book "Intelligent Systems for Data Science" on 15<sup>th</sup> August 2022
- Prof. Anindita Khade published a research paper titled "Text based cyber bullying prevention using toxicity filtering mobile chat application and api" in IEEE conference-21<sup>th</sup> September 2022
- Prof. Anindita Khade applied for 2 copyrights current status is under scrutiny.-12.12.2022
- Prof. Sunil K Punjabi published a book "Finance Management- Final Year B.E. Degree Course Common for all Branches" by Nirali Prakashan. ISBN : 978-93-5451-963-5.

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## Co-Curricular / Extracurricular Activities

### › Literary Team BaatCheet

Baatcheet is an online interview series which includes multiple speakers from various domains. These speakers are artists, whose professions are varied but fall under the umbrella of the entertainment industry. They shared their captivating journeys and enriching experiences with the GSTians. BAATCHEET'22-23 consisted of three episodes and various celebrities and experts participated.