IT NEWS LETTER

DEPARTMENT OF INFORMATION TECHNOLOGY   Jan-June 2023

Department of Information Technology came into inception in the year 2002 with an approved intake of 60 students. The Department has well Qualified faculty members and well trained Non teaching staff. The Department has well equipped laboratories.

The programme of Bachelor of Engineering in Information Technology is being conducted in accordance to the course curriculum prescribed by University of Mumbai..Department has been NBA accredited from 2021-2024.

The college management has always encouraged the student fraternity by announcing scholarships and cash awards for meritorious students. They are also encouraged to join professional bodies for creating an awareness of the latest developments in their field of interest. The department has IETE Student Forum which started in 2008. Technical and Co-curricular activities are being conducted under IETE on regular basis.

The department of Information Technology has been in the fore front in organizing cultural and technical events both at intra and inters collegiate levels. Shaping industry compliant engineers has always been the primary objective of the department and hence Industrial visits and Seminars by industry eminent personalities is treated as a part of curriculum.

Vision and Mission of IT Department

VISION

To develop IT professionals for accomplishment of industrial & societal needs through quality education.

MISSION

- To impart advanced knowledge and develop skills in Information Technology and allied fields.
- To enhance professional competence by inculcating values and ethics.
- To upgrade technical skills and also encourage research culture.
- To extend industry and alumni association for knowledge enhancement.
- To nurture entrepreneurial talent and contribute towards socioeconomic growth.

Editors
Prof. Seema Redekar
Prof. Bushra Shaikh

Program Educational Outcomes(PEOs)

Graduates will be able to:

PEO1: Compete in professional career with social and ethical responsibilities.

PEO2: Pursue higher studies / research in Engineering and Management.

PEO3: Become Entrepreneurs or software professionals to satisfy the latest Industrial requirements.

Program Specific Outcomes(PSOs)

PSO1: Students should be able to analyze, design and develop technological solution for a given scenario.

PSO2: Students should be able to involve themselves in life-long learning and cultivate skills for successful career, entrepreneurship and higher studies.

Department Activities

Department has organized various faculty development program and student development program during July 2022 to December 2022. Faculty of the IT department have conducted online lectures using Google classroom and Google meet and also used few simulation tools for conduction of practical sessions. Students are encouraged to publish their research work in reputed journals and to present in conferences.

Department Initiatives:

- ✓ Included Industry Reviewer to improve the quality of the projects as per Industry standards for all the final year projects.
- ✓

Academic/ Technical achievements of students:

- ✓ Ms. Pranali D, Mr Numan A, Mr Pravin N of BE IT have filed copyright for the software "Unified Validation Interface", on April 27, 2023.
- ✓ Mr Yuktant D, Ms Riya S, Ms Kashish S of BE IT have filed copyright for the software "Catalyst- A Student Performance Tracker", on April 27, 2023.
- ✓ Dr.K.Lakshmi sudha, Mr. Abhishek, Ms. Geetika filed a copyright in the month of May 2023 for the work titled "Packaging Material Testing Data Management System".

Publications:

- ✓ Mr.Salman Adhikari, Mr. Kunal Kumbhare, Mr. Mayank Raj ,Mr. Ruchir Rao from TE IT presented 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 9th March 2023.
- ✓ Mr.Lakshmanan Konar, Mr.R S Surya, Mr.Pranav Konar of BE had presented paper entitled "Streamlining Heritage Tourism: A Mobile App for Booking and QR Ticketing of Heritage Sites" at Springer's 3rd International Conference on Soft Computing for Security Applications - ICSCS 2023 on 17-18, April, 2023.
- ✓ Ms.Sneha ,Ms.Vaishnavi S Ms.Aishwarya T had presented paper "Plantect - A deep learning based plant disease detection system" in conference -ICETET at St.joseph college of engineering on 19/04/2023 and 20/04/2023.
- ✓ Mr.Shrinivas Baldawa, R Shobhana Iyer, Divyalaxmi Thiruganan had presented a paper titled "Block chain based Construction Management System" at ICOEI 2023 IEEE Conference, which will be held from 11-13, April 2023 at SCAD College of Engineering and Technology, Tirunelveli, India.
- ✓ Ajay Kannan, Gaurav Jaiswal, Nadar Jegan and Utkarsh Sharma of BE IT Presented Research paper titled" Cognitive computing-based music application on 11th International conference on Contemporary engineering and Technology 2023 on May 1-2023,at Prince Shree Padmavathy Engineering college ,Chennai
- ✓ Netra M, Nikita K, Janhavi R.

of BE IT presented paper titled "Machine Learning based prediction model", at IEEE 2nd International Conference on Applied Artificial Intelligence and Computing" on 05 May 2023.

- ✓ Aakansha R, Gauri T, Swaranjali J of BE IT presented paper titled "Real time News Analysis using Natural Language Processing", at IEEE 4th INTERNATIONAL CONFERENCE OF EMERGING TECHNOLOGIES" on 26 May 2023.

- ✓ Mr. Abhishek Shinde, Mr. Prajyot Bhoir, Sahil Shinde of BE IT presented a paper titled 'An efficient ridesharing model using machine learning based on riders reviews' in IEEE 4th INCET 2023, 26th May organized by Jain College of Engineering, Belgaum

Technical Achievements:

- ✓ Ms. Nishika Patel and Mr. Sufiyan Dalvi from BE IT stood in the top 35 out of 141 groups in Anveshana Competition on March 16, 2023.

- ✓ Mr. Aditya Yadav from TE IT secured the first position in Byte Camp on 18-19 March,2023 organized by SIESGST.

- ✓ Mr.Anurag Singh, Mr. Shreyash Kadam and

Mr.Ankur Rai from TE IT have won third in in Bizence'23 organized by Entrepreneurship Development Cell SIESGST on 26th March 2023

- ✓ Mr.Mohit Shetty, Mr.Anurag Singh and Mr.Shreyas Kadam bagged first price for project "Aim Assist" in Projexions'23- for TE IT students, organised under IETE Students' Forum on April 21, 2023.

- ✓ Ms. Shivani Pandeti, Ms.Shreya Idate, Mr.Shreyas Prabhakar, Ms.Sonakshi Jha bagged 2nd Prize for " Project: Smart Dustbin" in Projexions'23 -Sensor Track for TE IT students, organised under IETE Students' Forum on April 21, 2023.

- ✓ Mr.Pratik Mohite,Mr. Rohan Nashikkar, Mr.Aniket Ojha, Mr.Soham Pavale of TE IT bagged 1st Prize In Innovations for Project "Soldier Health Monitoring and GPS Tracking System "organized by SIESGST on 8/4/23.

- ✓ Mr.Aman, Mr,Rafe, Mr.Sahil ,Mr.Salman bagged 2nd prize for project "Attendance app" in Projexions'23 -Mobile app development Track for TE IT students, organised under IETE Students' Forum on April 21, 2023.

- ✓ Mr. Kanda Kumaran Thevar of TE IT has participated and acted as volunteer at the CSI Cyber FIFC Conference and

Cyber Security Awards held at IIT Bombay on 26-27th May 2023

Sports achievement:

- ✓ Ms.Srushti, Ms.Nishitha, Ms.Vaibhavee and Ms.Kruti from SE and TE IT had 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 Organized by VJTI on 31 Jan, 2023.

- ✓ Mr.Subodh Patil and Esakkiraja of TE IT participated and won Second Position in volleyball Tournament Organized by Bharati Vidyapeeth on Jan 25,2023.

- ✓ Ms. Riya Singh of BEIT has secured 2nd position in Tug of War (Girls) during TML held in Feb 2023, SIES GST.

- ✓ Ms. Shrushti Patane from SE IT won second prize in the Super League Volleyball tournament on March 15-16, 2023 organized by H R College, Mumbai.

- ✓ Ms.Vaibhavee Thakur from TE IT Bagged second place in H.R super league volleyball match on March 15, 2023.

Cultural Achievement:

- ✓ Ms.Iyer Shruti secured second rank for Western Group Song in Zonal Inter collegiate youth Festival ,University Of Mumbai

- ✓ Ms.Iyer Shruti secured Third rank for Western Vocal Solo in Zonal Inter collegiate youth Festival ,University Of Mumbai

- ✓ Mr.Shreyas Upadhyay of TE IT for Elocution(Group B) secured Third rank in Zonal Inter collegiate youth Festival ,University of Mumbai.

- ✓ Mr. Anurag Singh from TE IT won first prize in Poetry recitation at AC Patil COE, Kharghar on March 29, 2023.

Faculty achievements :

Patents and copyrights:

- ✓ Prof Leena Ladge along with students of BE (Ms. Pranali D, Mr Numan A, Mr Pravin N) filed copyright for the software "Unified Validation Interface", on April 27, 2023.

- ✓ Prof Leena Ladge along with students of BE (Mr Yuktant D, Ms Riya S, Ms Kashish S) filed copyright for the software "Catalyst- A Student Performance Tracker", on April 27, 2023.

- ✓ Prof.Seema Redekkar had 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 17th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2022-23 organized 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.

Publications:

- ✓ Dr.Lakshmi Sudha Kondaka had 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 and 28 January 2023 at BNM Institute of Technology, Bengaluru, India.

- ✓ Dr.Lakshmisudha Kondaka had published a paper titled "Automated Stock Trading using Deep Q-learning" in METSZET Journal(scopus indexed), Volume 8, issue 1, January 2023.

- ✓ Prof. Stuti Ahuja had published paper "Semantic understanding of high spatial resolution remote sensing images using directional geospatial relationships, Annals of GIS, DOI: 10.1080/1947 5683. 2023.2181394, March 09,2023. (Taylor & Francis Journal)

- ✓ Prof. Bushra Shaikh had presented the paper entitled "eKisaan - A B2B Agricultural Platform to Enhance the Production of Crops using Machine Learning" at 2nd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS) 2023 on 24th March.

- ✓ Ms. Samundiswary S presented 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 9th March 2023.

- ✓ Ms. Savita Lohiya had published research paper" Pothole detection system" in International journal of creative and research thoughts Volume 11, Issue 4 in April 2023

- ✓ Ms.Savita Lohiya had published research paper" Skill tracking application" in Second International Conference on Data Science and Intelligent applications on

29/4/2023.

- Prof. Stuti Ahuja had presented paper entitled "Streamlining Heritage Tourism: A Mobile App for Booking and QR Ticketing of Heritage Sites" at Springer's 3rd International Conference on Soft Computing for Security Applications - ICSCS 2023 on 17-18, April 2023.

- Prof.Mrinal Khadse presented the paper titled "PLANTECT- A DEEP LEARNING BASED PLANT DISEASE DETECTION SYSTEM", in the 5th International Conference on Emerging Trends in Engineering and Technology (ICETET 2023) "Conducted by St. Joseph College of Engineering, Chennai, Tamil Nadu, on 19.04.2023 and 20.04.2023.

- Dr. Lakshmisudha Kondaka had presented a paper titled "Block chain based Construction Management System" at ICOEI 2023 IEEE Conference, which will be held from 11-13, April 2023 at SCAD College of Engineering and Technology, Tirunelveli, India.

- Samundiswary S. Presented Research paper titled" Cognitive computing-based music application on 11th International conference on Contemporary engineering and Technology 2023 on May 1- 2023, at Prince Shree Padmavathy Engineering

college, Chennai.

- Prof. Seema Redekar presented paper titled "Machine Learning based prediction model", at IEEE 2nd International Conference on Applied Artificial Intelligence and Computing" on 05 May 2023.

- Prof. Seema Redekar presented paper titled "Real time News Analysis using Natural Language Processing", at IEEE 4th INTERNATIONAL CONFERENCE OF EMERGING TECHNOLOGIES" on 26 May 2023.

- Ms Bushra Shaikh presented a paper titled 'An efficient ridesharing model using machine learning based on riders reviews' in IEEE 4th INCET 2023, 26th May organized by Jain College of Engineering, Belgaum.

- Dr.K.Lakshmi sudha, Ms. Pooja published a paper titled "Optimized Image Authentication Algorithm using Redundant Wavelet Transform Based Sift Descriptors and Complex Zernike Moments" in International Journal of Advanced Computer Science and Applications, Vol. 14, No. 4, 2023.

Faculty Development Programs:

- Prof. Leena Ladge attended one day faculty orientation program on"Internet-of-Things

Hardware Setup" organised by AICTE Idea Lab, SPIT, on January 18, 2023

- Prof.Mrinal Khadse and Prof.Samundiswary S had attended Faculty Orientation Program on "Cloud Computing and Services "On behalf of Mumbai University Organized by Thadomal Shahani Engineering College on 12th Jan 2023

- Prof. Bushra Shaikh attended FDP on 'Preparing for Sponsored projects and Project Proposal Development' on Jan 12 by Dr Anand Shankar Raja, organized by Dr. AK Sen Gupta, HEF, SIES SLLD.

- Prof.Bushra Shaikh had Completed AWS Academy Graduate - AWS Academy Cloud Foundations Course on January 03, 2023, Issued by Amazon Web Services Training and Certification.

- Prof. Savita Lohiya attended seminar "how to become a good researcher", organized by SIESCOMS Nerul on 6th Jan 2023.

- Prof. Samundiswary S had attended webinar on "Era of Metaverse" on 27th January 2023, Organized by SIES School of Learning and Leadership Development.

- Mr. Pravin Shinde attended orientation on "Block chain and DLT (ITC801)" for BE/VIII Rev-2019 C scheme conducted by Xavier Institute of Engineering on 5/1/2023.

- Prof. Savita Lohiya had attended STTP on Research trends in data science from 27 Feb to 4th March 23 by MKSSS's Cummins college pune.
- Prof Seema Redekar had attended ISTE online workshop on "Algorithmic trading using machine learning", held on March 11,2023 organized by ISTE chapter of Terna college of engineering.
- Prof. Seema Redekar had attended ISTE STTP on "Research Trends in Data Science", held during 27.02.2023 to 04.03.2023 organized by MKSSS's Cummins College of Engineering for Women, Pune, Maharashtra
- Prof. Stuti Ahuja had attended STTP on "Research Trends in Data Science" held during 27.02.2023 to 04.03.2023 organized by MKSSS's Cummins College of Engineering for Women, Pune, Maharashtra.
- Prof. Bushra had completed ISTE approved online STTP on 'Recent Trends in Data Science', 27-2-23 to 4/3/23 organized by MKSSS's Cumin's College of Engg, Pune, Maharashtra.
- Prof. Sampada Lovalekar had completed the course " Python for Data Science" provided by IBM.
- Prof. Sumit Shinde had completed one-week ISTE approved STTP on "Research Trends in Data Science" from 27 Feb to 4 March 2023.
- Prof.Bushra S, Prof.Samundiswary S had attended a session on "ChatGPT and Its Impact on Education", SIESSLLD has organized on 28/4/23.
- Ms.Samundiswary S completed 12 weeks online NPTEL certification course on "Introduction to Machine Learning " from Jan -Apr 2023
- Dr.K.Lakshmisudha, Prof. Leena Ladge, Prof. Mrinal Khadse, Prof. Savita Lohiya, Prof. Seema Redekar, Prof.Bushra, Prof. Samundiswary, Prof.Sumit Shinde, Prof. Smita Mane, Prof. Pravin shinde Prof. Sampada have attended one week STTP on "Augmented and Virtual Reality" from 19th June to 24th June 2023.
- Mrs Samundiswary S has participated in 5 days Short Term Course on "Security in Artificial Intelligence: Strategies and Best Practices" held online from 14th June 2023 to 18th June 2023 organized by Department of Computer Science & Engineering, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India

Value added Courses:

- Dr.K.Lakshmi sudha, Prof. Arathi B. conducted "Value added course- Network Management and Security" with Industry resource person Mr. Chandan Sharma - Triple CCIE – 19701 (R&S, Security and Service) Organized by Department of Information Technology,SIESGST from Jan 2-7,2023. It was coordinated by Prof. Smita Mane.
- Prof. Samundiswary S, Prof. Pravin Shinde conducted "Value Added Course on Full Stack Web Development" with industry Resource person. (Mr. Neelakanth Dondapati, Senior Associate, Morgan Stanley-MSCI) and Alumini Resource person (Mr. Sujay Kadam, Software Development Engineer, Yocket) Organized by Department of Information Technology,SIESGST from Jan 2-7,2023. It was coordinated by Prof. Sumit Shinde.

Seminars /workshops organized by IT Department:

- Prof. Leena Ladge as an IQAC Coordinator, coordinated with SIES School of Learning and Leadership Development (SIESSLLD), for the following events. An interaction on the topic of "Era of Metaverse" on 27th January 2023, A program

on the important topic of Sponsored Projects on 12th January 2023, A program on the topic of "How to Become an Excellent Researcher" on 6th January 2023 and the workshop on Team Building for non-teaching staff on January 19, 2023.

- ✓ Prof. Stuti Ahuja and Prof. Smita Mane had organized an expert talk on "Industrial applications of IoT", conducted by Mr. Harish Chandar, Founder-Director, India Tech Pvt. Ltd. on Jan 31,2023.

- ✓ Dr. Lakshmi Sudha Kondaka conducted a hands-on session on MOOCs and copyright on Friday (24/2/2023) for all IT faculties. All IT faculties attended the session.

- ✓ Prof. Seema Redekar had organized an Expert talk on topic"Kafka:Distributed Data Streaming Technology" by Prof. Seema Redekar conducted by Mr. Sandeep Redekar, VP, Morgan Stanely on 3/2/2023 for BE IT.

- ✓ Prof. Sumit Shinde had organized an Expert talk on "Data Science and analytics for startegic decisions" conducted by Deputy Manager, SBI on 7th February 2023 for TE IT.

- ✓ Dr. Lakshmisudha conducted a workshop on "Design and Development of Massive Open Online Course (MOOC): Series II", under IQAC on March 14, 2023. It was

organized by Prof. Leena Ladge under IQAC.

- ✓ Prof. Leena Ladge organised a workshop on "Design and Development of Massive Open Online Course (MOOC): Series I", under IQAC on March 02, 2023. It was conducted by Dr. Deepti Reddy, I/C HOD of ECS.

- ✓ Prof. Leena Ladge had organised "Alumni Interaction "under IETE Students' Forum on March 03, 2023.

- ✓ Prof. Leena Ladge organised the workshop "Techxter- A National Level Technical Paper Presentation "under IETE Students' Forum on March 17, 2023.

- ✓ Prof. Sumit Shinde organized a field visit to "center for Invention, Innovation and Incubation" Kharghar for all TE and BE students of SIES GST on 14th March 2023.

- ✓ Prof. Sampada Lovalekar had organized an expert talk on the topic "Data Science ChatGPT" by Mr. Nilendra Chaudhary, Capgemini on 20th March 2023 for TE IT.

- ✓ Prof Savita Lohiya and Prof. Leena Ladge organized a Poster Presentation competition for all BE projects. This was organised under Projexions of IETE Students' Forum on April 06, 2023.

- ✓ Prof Stuti Ahuja, Prof Bushra Shaikh, Prof Sumit Shinde and Prof Leena Ladge had

organized Projexions'23- A project exhibition housing projects of Sensor Lab, Mobile App Development Lab and Data Science Lab for TE IT students. This event was organised under IETE Students' Forum on April 21, 2023.

Seminars/workshops/Faculty Development Program attended by IT Department Faculty :

- ✓ Prof. Leena Ladge attended one day faculty orientation program on"Internet-of-Things Hardware Setup" organised by AICTE Idea Lab, SPIT, on January 18, 2023

- ✓ Prof.Mrinal Khadse and Prof.Samundiswary S had attended Faculty Orientation Program on "Cloud Computing and Services "On behalf of Mumbai University Organized by Thadomal Shahani Engineering College on 12th Jan 2023

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Quote from the Editor's Desk:

"You have to grow from the inside out. None can teach you, none can make you spiritual. There is no other teacher but your own soul." – Swami Vivekanada