



TATRADNYA

September to December 2022

Volume #9, Issue #2

DEPARTMENT OF INFORMATION TECHNOLOGY

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Editorial Team

Dr. Radhika Kotecha, Head of Department

Ms. Seema Yadav, Assistant Professor

Ms. Karishma Jhaveri, Student - 3rd Year

Mr. Parth Vadher, Student - 3rd Year

Vision of Department

To be recognized as a centre of excellence in the field of Information Technology where inquisitive minds of students are fostered, leading to skilled professionals and contributing citizens.

Mission of the Department

- To produce industry-ready engineers by imparting quality education and enhancing their proficiency with strong engineering foundation and in-depth knowledge of Information Technology.
- To encourage curiosity, creativity, innovative thinking, culture of continuous learning, and multidisciplinary activities for developing state-of-the-art solutions to real-world problems.
- To serve humanity by creating socially responsible citizens with high ethical values who can communicate effectively and work independently or in groups.

Program Educational Objectives (PEOs)

- Program Graduates will be able to apply knowledge of engineering fundamentals and cutting-edge Information Technology to identify and implement innovative solutions for engineering problems and issues in society.
- Graduates will be able to exhibit their employability skills and practice the ethics of their profession with a sense of social responsibility.
- Graduates will have strong interpersonal skills and will engage in life-long learning to enhance their career positions, both as team members and leaders.Objectives (PEOs).

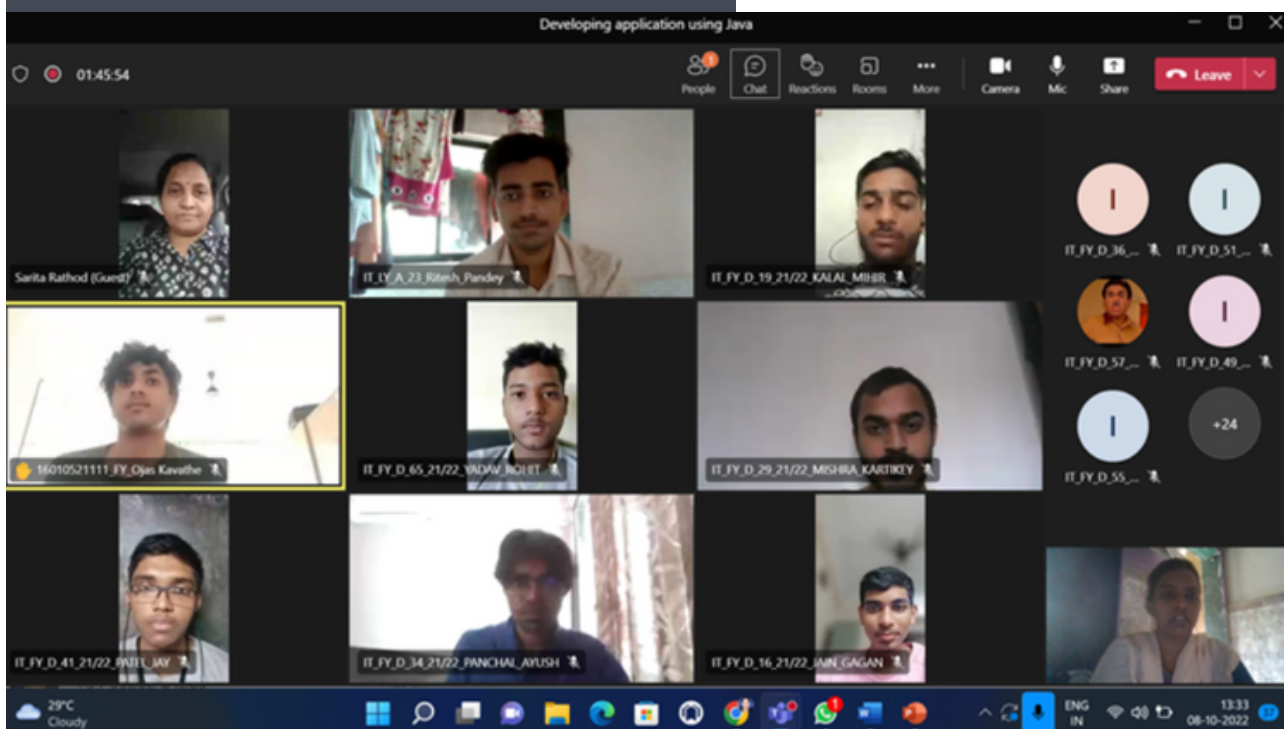
Program Specific Outcomes (PSOs)

- Graduates will be able to apply standard software engineering practices in real-world project development to deliver efficient, secure and novel solutions.
- Graduates will be able to apply the contemporary trends in Information Technology like Internet of Things and Data Science in diverse application areas.

Departmental Activities

- Department of Information Technology organized a Peer Learning Workshop on "**Developing Innovation using Java**" on October 08, 2022 for all second year students, coordinated by Mrs. Sarita Rathod and Mrs. Nasim Shah.

Glimpse of Workshop on "Developing Innovation using Java"



Departmental Activities

- Department of Information Technology organized a Faculty Development Programme on **"Research & Innovation Report Writing using LaTeX"** in Online Mode from December 26 – 31, 2022 in association with Spoken Tutorial Project, IIT Bombay, coordinated by Dr. Radhika Kotecha, Mrs. Sarita Rathod and Mr. Prashant Sawant.



The poster is for a Faculty Development Programme on "Research & Innovation Report Writing using LaTeX". It is organized by the Department of Information Technology at K. J. Somaiya Institute of Engineering and Information Technology. The programme is held in online mode from December 26 to 31, 2022. It is associated with the Spoken Tutorial Project, IIT Bombay, which is an initiative of the National Mission on Education through ICT, MoE, Govt. of India. The poster includes the logos of Somaiya Vidyavihar, Spoken Tutorial, and IIT Bombay. A photograph of the institute's campus is also shown.

SOMAIYA VIDYAVIHAR
K J Somaiya Institute of Engineering and Information Technology
An Autonomous Institute Permanently Affiliated to the University of Mumbai

One Week
Faculty Development Programme
On
"Research & Innovation Report Writing using LaTeX"
in Online Mode from
December 26 – 31, 2022
Organized By:
Department of Information Technology
In Association with:
Spoken Tutorial Project
Undertaken by IIT Bombay
Initiative of National Mission on Education through ICT
MoE, Govt. of India

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Dept. of IT: <https://department.kjsiet.in/it>

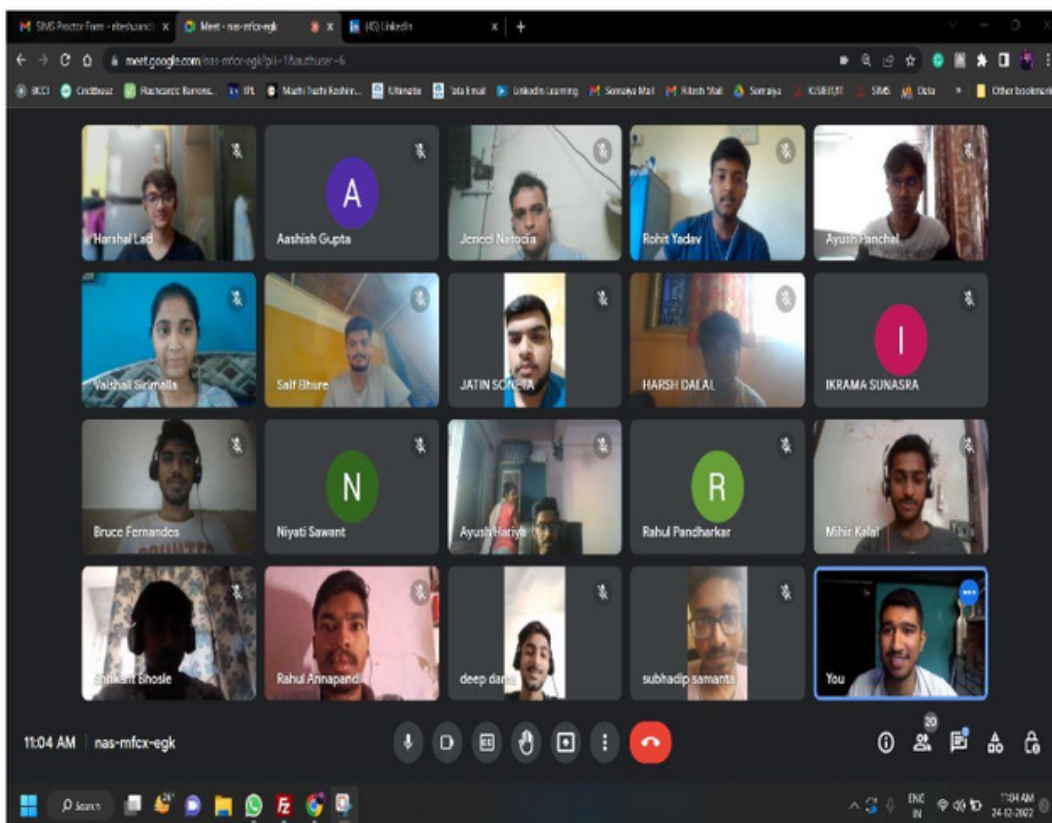
Departmental Activities

- Department of Information Technology and Department of Electronics and Telecommunication organized a Faculty Development Program on **“Mathematical Modeling & Statistical Techniques for AI/ML”** in offline mode from December 19-24, 2022 in association with ISTE.



- Department of Information Technology organized Winter Internship for the Second Year & Third Year in the month of December on **“Web Development & Git”** in hybrid mode.

Departmental Activities

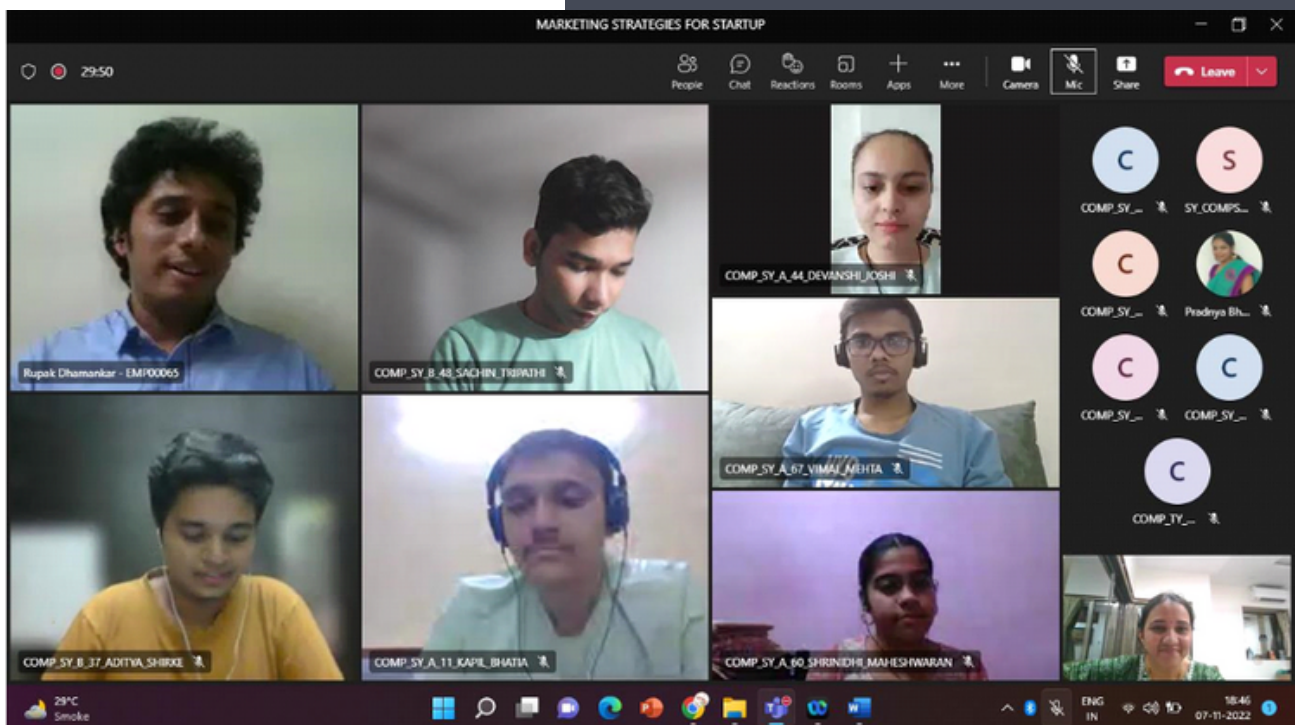


Glimpse of Winter Internship on
“Web Development and Git”.

Departmental Activities

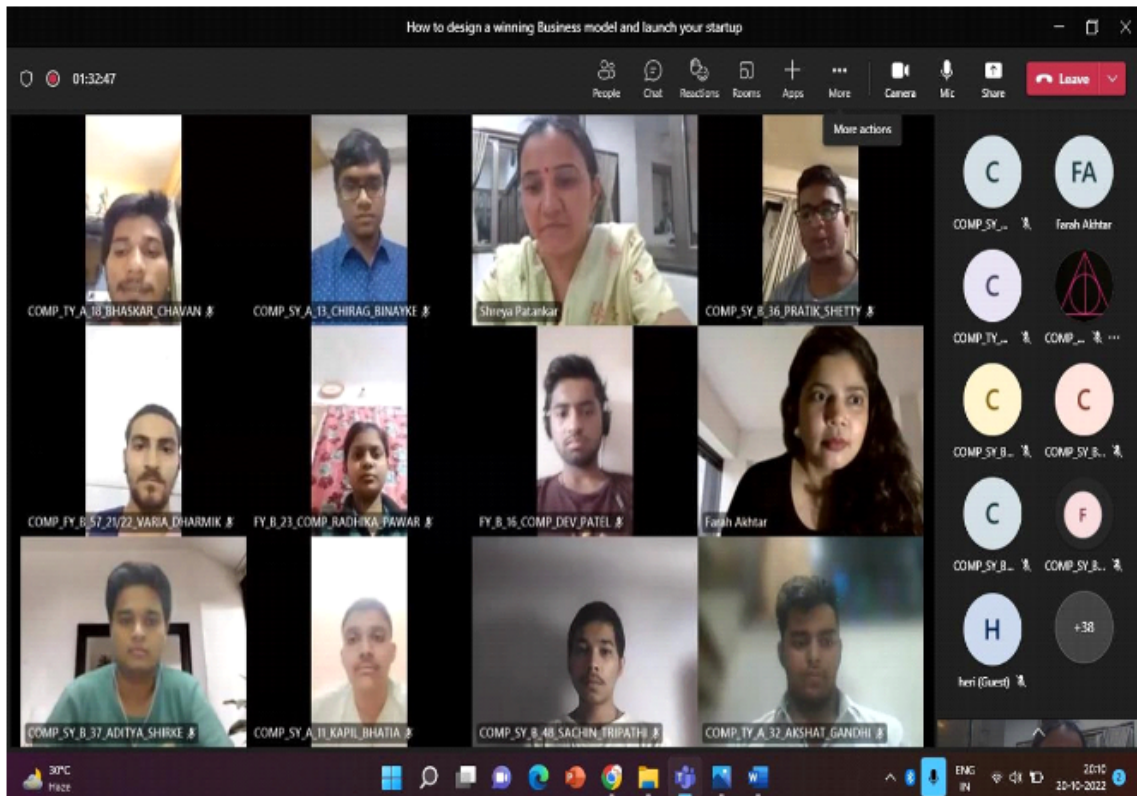
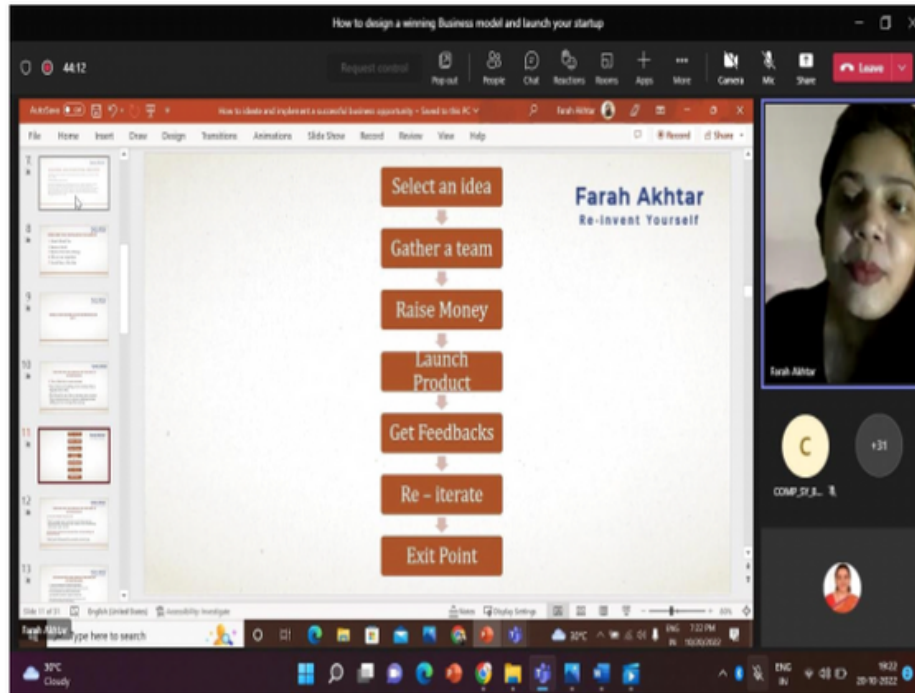
- Department of Information Technology & National Innovation & Startup up policy (NISIP) cell has organized webinar on **“Marketing Strategy for Startup”** on November 07, 2022.

Glimpse of Webinar on “Marketing strategy for Startup”



- Department of Information Technology & National Innovation & Startup up policy (NISIP) cell has organized a webinar on **“How to design a winning Business model and launch your startup”** on October 20, 2022.

Departmental Activities



Glimpse of Webinar on "How to design a winning Business model and launch your startup"

Departmental Activities

- Department of Information Technology and Institution's Innovation Council (IIC) organized an event "**Entrepreneurial Case Study Competition**" on October 06, 2022 judged by Dr. Vrushali Deole and Mrs. Prahalika Pai from the Department of Basic Science and Humanities.



- Department of Information Technology and Institution's Innovation Council (IIC) organized an event "**Designerthon**" on October 07, 2022 coordinated by Mr. Harsh Bhor and Dr. Radhika Kotecha.

Departmental Activities



- Department of Information Technology and Institution's Innovation Council (IIC) organized an event "**Innovathon - 2022**" on October 06-07, 2022, coordinated by Mr. Harsh Bhor and Dr. Radhika Kotecha.

Activities and Achievements of Faculties:

- Dr. Hariram Chavan published a paper **“An Algorithmic Approach to Audio Processing and Emotion Mapping”** in the 5th IEEE International Conference on Advances in science and Technology (ICAST)-2022 on 2nd and 3rd December 2022.
- Dr. Hariram Chavan and Dr. Radhika Kotecha reviewed papers for the 4th IEEE Bombay Section Signature Conference (IBSSC- 2022) held during December 8 – 10 2022 and Organized by IEEE Bombay Section and SVKM’s NMIMS MPSTME, Mumbai, India.
- Dr. Hariram Chavan attended the workshop for Panel of Conference Organizers (POCO) - 2022 organized by IEEE Bombay Section on 8th December 2022
- Dr. Hariram Chavan attended IP Awareness/Training program organized by SOMAIYA VIDYAVIHAR UNIVERSITY, MUMBAI on September 06, 2022
- Dr. Hariram Chavan, attended the BOS meeting of Wilson College (Autonomous) on 9th December 2022.

Activities and Achievements of Faculties:

- Dr. Hariram Chavan, Mr. Uday Rote, Mrs. Nasim Shah, and Mrs. Sarita Rathod reviewed papers of the 5th Biennial International Conference on Nascent Technologies in Engineering, ICNTE-2023 organized by Fr. C. Rodrigues Institute of Technology, Vashi in association with IEEE and IAS on January 20-21, 2023



- Dr. Hariram Chavan, attended the BoS meeting Department of Artificial Intelligence and Machine Learning of Thakur College of Engineering and Technology is an engineering college in Mumbai, on 9th January 2023.
- Dr. Radhika Kotecha has collaborated with India Meteorological Department (IMD), Pune for development of the project **“Heatwave Prediction using Data Analytics”**.

Activities and Achievements of Faculties:

- Dr. Radhika Kotecha published a paper titled **“Optimal Waypoint Assignment for Designing Drone Light Show Formations”** in Scopus-indexed Journal - Results in Control and Optimization, Elsevier.
- Dr. Radhika Kotecha published a paper titled **“Enhancement of Drone-as-a-Service Using Blockchain and AI”** in Web of Science-indexed Journal - International Journal of Next-Generation Computing, Perpetual Innovation.
- Dr. Radhika Kotecha published a paper titled **“GP-MOMS based Classification of Multi-Class Imbalanced Data”** in Scopus-indexed Journal - The Seybold Report.
- Dr. Radhika Kotecha published a paper titled **“Data Mining for Enhancement of Graduate Attributes”** in UGC Care-indexed Journal - ICTACT Journal on Soft Computing (IJSC), ICT Academy.
- Dr. Radhika Kotecha attended one day Workshop on Open Source Technologies at IIT Bombay on December 20, 2022.

Activities and Achievements of Faculties:

IIT Bombay
FOSSEE
Glimpses

Workshop on Open Source Technologies for Faculty
from University of Mumbai & Affiliated Colleges



20.12.2022 | FC Kohli Auditorium, IIT Bombay, Mumbai, India

- Dr. Radhika Kotecha served as a Technical Program Committee Member in the Congress on Smart Computing Technologies (CSCT 2022) organized by Soft Computing Research Society and SAU Center for Research and Innovative Learning during December 11-12, 2022.



Activities and Achievements of Faculties:

- Dr. Radhika Kotecha served as a Reviewer of Manuscripts for SN Computer Science (Springer Publications' journal indexed in indexed in Scopus, etc.).
- Dr. Radhika Kotecha served as a Reviewer of Manuscripts for Machines (MDPI Publications' journal indexed in Scopus, Web of Science, etc.).
- Dr. Radhika Kotecha served as a Program Committee Member in the 4th International Conference on **Communication and Intelligent Systems (ICCIS)** 2022 organized by Soft Computing Research Society and National Institute of Technology, Delhi December 19-20, 2022.



Activities and Achievements of Faculties:

- Dr. Radhika Kotecha attended a 2-week Patent course organized by Turnip Innovations from December 19-January 01, 2023.



- Dr. Radhika Kotecha attended the Faculty Development Program on **“Design and Development of Industry led Curriculum in Technological Era”** organized by AMET University and the Association of Indian Universities during December 14-22, 2022.



Activities and Achievements of Faculties:

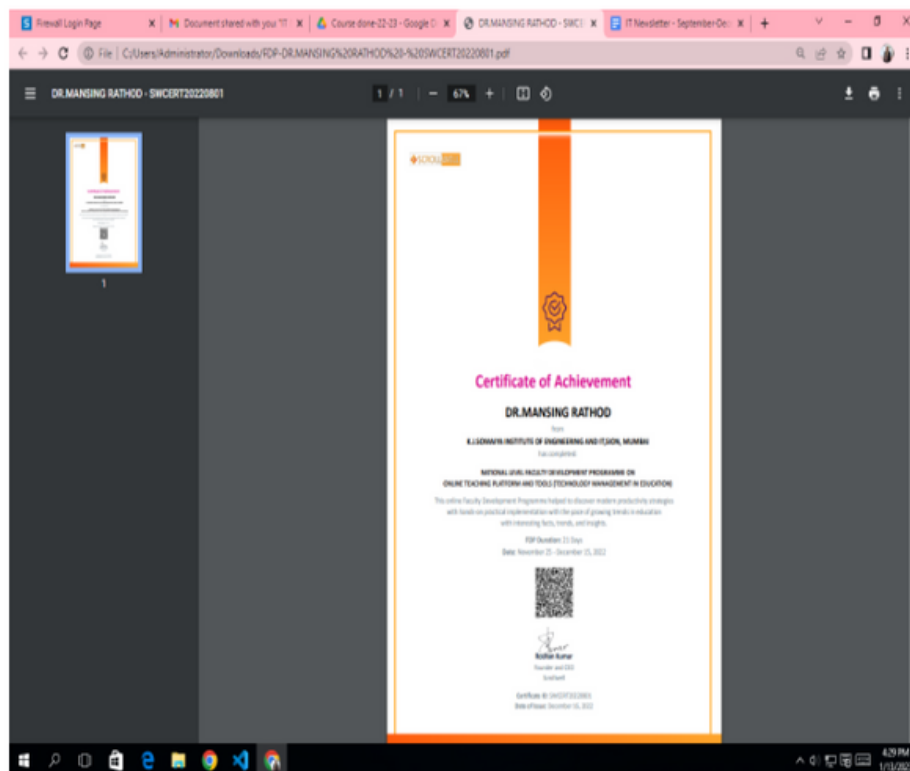
- Mr. Uday Rote has collaborated with University of Dallas USA, Dr. Majumdar and Alumnus Mr. Chintan Sukla for development of an easy cab application.



- Dr. Hariram Chavan, Dr. Radhika Kotecha, Mr. Uday Rote and Dr. Mansing Rathod were session coordinators in the 5th International Conference on Advances in Science and Technology organized by KJSIEIT from December 2-3, 2022
- Mr. Uday Rote presented a paper titled **“WiFi Deauth and Cloning using ESP8266”** in the 5th International Conference on Advances in Science and Technology organized by KJSIEIT from December 2-3, 2022.

Activities and Achievements of Faculties:

- All faculties in the department participated in FDP on **“Research and Innovation Report Writing in LaTeX”** organized by the Department of Information Technology, K J Somaiya Institute of Technology, Sion with course material provided by Spoken Tutorial Project, IIT Bombay from December 26-31, 2022 .
- Dr. Mansing Rathod has participated National level 21 days FDP on Online Teaching Platform and Tools (Technology management in education), Founder and CEO Scrollwell, Company, December 25-16, 2022.



Activities and Achievements of Faculties:

- Dr. Mansing Rathod, Mrs Seema Yadav, Ms. Vijaya Pinjarkar, Mr. Harsh Bhor, Mrs. Nasim Shah, Ms. Reena Lokare and Ms. Sarita Rathod were appointed as Reviewer in 5th IEEE International Conference on Advances in Science and Technology (IEEE-ICAST-2022), Organized by K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, 2022.
- Dr. Mansing Rathod published paper in titled **“Design optimization of circular vessel using computational fluid dynamics for the effective heat storage”** in International Journal on Interactive Design and Manufacturing (IJDeM) published by Springer in 2022.
- Dr. Mansing Rathod has published paper titled **“Improving the Software Privacy in the OFDM 5G Communication Integrated with License Key in the Hardware Communication Parameters”** in International Journal of Intelligent Systems and Applications in Engineering (IJISAE), 2022.
- Dr. Mansing Rathod has completed course on Project Management in December, 2022

Activities and Achievements of Faculties:



- Mrs. Seema Yadav Published a book chapter titled **“Telemedicine using Machine Learning”** in November 2022 in Emerging Computational Approaches in TeleHealth and Telemedicine: A Look at The Post COVID-19 Landscape, Advances in Data Science-Driven Technologies.



Activities and Achievements of Faculties:

- Mrs. Seema Yadav presented a paper titled **“Epidemic Outbreak Prediction Using Machine Learning Model”** in the 5th International Conference on Advances in Science and Technology organized by KJSIEIT from December 2-3, 2022.
- Mrs. Seema Yadav, Mr. Harsh Bhor, Ms. Vijaya Pinjarkar , Mr. Prashant Sawant and Ms. Sarita Rathod participated in FDP on **“Mathematical Modeling & Statistical Techniques for AIML and Data Science”** organized by K J Somaiya Institute of Technology, December 19-24,2022 .
- Mr. Harsh Bhor has collaborated with SIRAC, SVV and KIAAR, Sameerwadi, Karnataka for development of the project **“Sustainable Agricultural Research ”**.
- Mr. Harsh Namdev Bhor served as reviewer of manuscripts for Scopus-indexed Journal **'Knowledge-Based Systems' - Elsevier, November - 2022.**
- Mr. Harsh Bhor has participated in FDP on **“ETL-Data Warehousing Tools”** organized by G. Pulla Reddy Engineering College (Autonomous), Kurnool in Online Mode from October 31, 2022 - November 04, 2022.

Activities and Achievements of Faculties:



- Mr. Harsh Bhor published paper titled **"News Classification and Summarization using Random forest and TextRank algorithm"** in the International Online Conference on Artificial Intelligence and Data Science (ICAIDS) 2022 on October, 2022.
- Ms. Vijaya Umesh Pinjarkar attended the International conference **"AWSOME DAY"** organised by AWS.



Activities and Achievements of Faculties:

- Ms. Vijaya Umesh Pinjarkar acted as reviewer for 6th International Conference on Computational Systems and Information Technology for Sustainable Solutions, CSITSS-2022 organized by RV College of Engineering in association with Florida International University and technically co-sponsored by IEEE Bangalore Section, Bangalore, India conducted during December 21- 23, 2022.



- Ms. Vijaya Pinjarkar and Mr. Harsh Bhor filed a patent titled **“A System and method for preserving data mining and cryptography on health data”** in Indian Patent Journal in November 2022.
- Ms. Vijaya Pinjarkar published a paper titled **“Novel RaEnOpti approach for Secure and Privacy Preserving Classification of Horizontally partitioned Mental Health Data in Distributed Environment”** in Seybold Report Journal (Scopus) Vol.17.Issue 11, November 2022.

Activities and Achievements of Faculties:

- Ms. Vijaya Pinjarkar attended Faculty Development Program on **“Applications of Biomedical Signal Processing”** organised by C.V. Raman Global University, Bhubaneswar, India



- Ms. Vijaya Pinjarkar presented a paper titled **“DiseaseLens : A Lifestyle Related Disease Predictor”** in the 5th International Conference on Advances in Science and Technology organized by KJSIEIT from December 2-3, 2022.
- Ms. Vijaya Pinjarkar presented a paper titled **“TuberculosisXpert - Prediction of Pulmonary Tuberculosis”** in the 5th International Conference on Advances in Science and Technology organized by KJSIEIT from December 2-3, 2022.

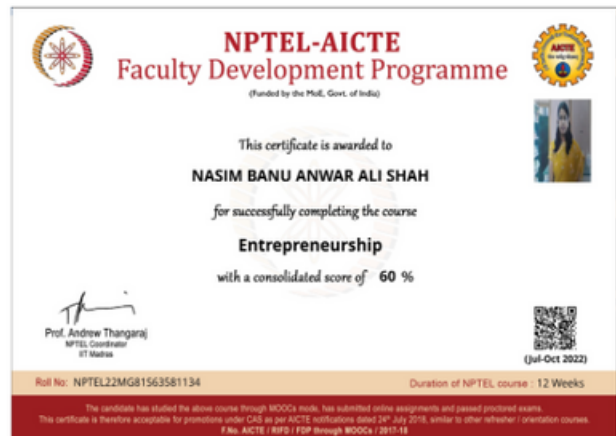
Activities and Achievements of Faculties:

- Ms. Nasim Shah presented a paper titled **“Online Examination System with measures for prevention of cheating along with rapid assessment and automatic grading”** in the 5th International Conference on Advances in Science and Technology organized by KJSIEIT from December 2-3, 2022.
- Mrs. Nasim Shah attended Intensive Training Program on **“PYTHON for Machine Learning, Neural Networks and Deep Learning”** organized by Indian Institute of Technology, Kanpur during September 10 - 20, 2022.



- Mrs. Nasim Shah attended Faculty Development Program cum NPTEL Online Certification Course on **“Entrepreneurship”** under the category **“Elite”** NPTEL, Funded by MoE, Govt of India during July-October 2022.

Activities and Achievements of Faculties:



- Mrs. Nasim Shah attended a one week Faculty Development Program on **“Quantum Computing”** organized by the Department of Computer Engineering, K. J. Somaiya Institute of Engineering and Information Technology, Mumbai, approved by Indian Society for Technical Education (ISTE), Institute of Engineering & Technology (IET) and University of Mumbai held during December 12-17, 2022.
- Dr. Radhika Kotecha mentored Research Project titled **“Crowd Convert – Train Crowd Management System”** in Commerce, Management and Law Category and UG Level at 17th Aavishkar: Intercollegiate / Institute / Department Research Convention (Zonal Round) organized by the University of Mumbai at Shah and Anchor Kutchhi Engineering College, Chembur, Mumbai on December 23, 2022 for Engineering Colleges/Institutes. The team further qualified and won in the Final Round at Satish Pradhan Dnyanasadhana College, Thane on December 26, 2022.

Activities and Achievements of Faculties:

- Mrs. Seema Yadav mentored Research Project titled Intelligent Human resource Information System in Commerce, Management and Law Category and UG Level at 17th Aavishkar: Intercollegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Shah and Anchor Kutchhi Engineering College, Chembur, Mumbai on December 23, 2022 for Engineering Colleges/Institutes Zone.



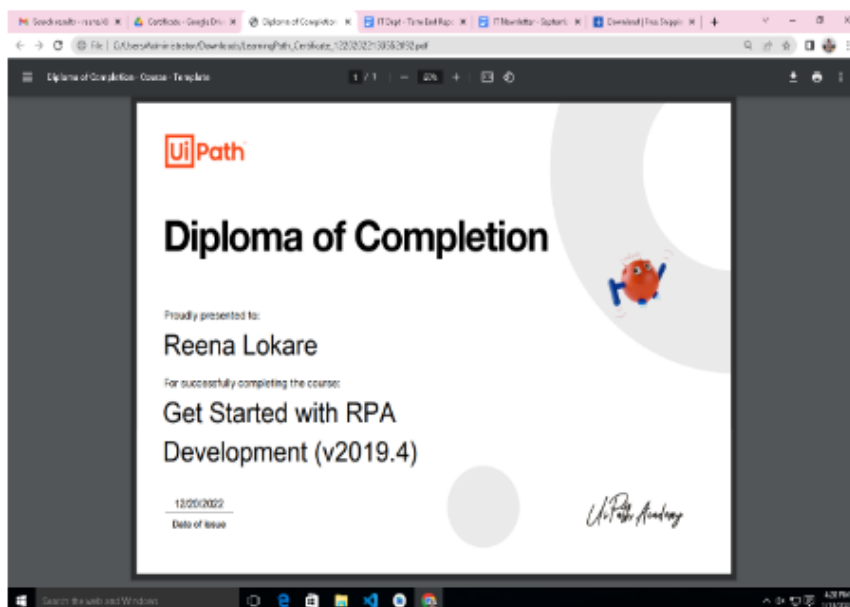
Activities and Achievements of Faculties:

- Mrs. Nasim Shah mentored Research Project titled Intelligent Human resource Information System in Commerce, Management and Law Category and UG Level at 17th Aavishkar: InterCollegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Shah and Anchor Kutchhi Engineering College, Chembur, Mumbai on December 23, 2022 for Engineering Colleges/Institutes Zone.
- Ms. Sarita Rathod has guided a Research Project titled "**Iot Based Power Consumption Control and Monitoring System**" in Pure Sciences Category and UG Level and secured CONSOLATION at the 17th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) organized by the University of Mumbai at Satish Pradhan Dnyanasadhana College, Thane on December 26, 2022.
- Ms. Nasim Shah and Mrs. Sarita Rathod reviewed papers for IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2022), organized by IEEE MP Section and ABV-IIITM Gwalior, India on 21-23 December 2022.

Activities and Achievements of Faculties:



- Ms. Reena Lokare completed a course **"Get started with RPA Development (v2019.4)"** on December 20, 2022 by UiPath.



- Ms. Reena Lokare presented a paper titled **"Privacy preserving document classification using Convolutional neural network- A Deep learning approach"** in the 5th International Conference on Advances in Science and Technology organized by KJSIEIT from December 2-3, 2022.

Activities and Achievements of Faculties:

- Ms. Sarita Rathod has participated in FDP on “ **Mathematical Modeling & Statistical Techniques for AIML and Data Science**” organized by K J Somaiya Institute of Engineering and Information Technology, Sion, December 19-24 2022.
- Ms. Sarita Rathod has been invited as Jury for the InnoTech Inter-College Project Competition in association with The Institution of Engineering & Technology, Mumbai Local Network on October 15, 2022 organised by Xavier Institute of Engineering Mahim (West), Mumbai.



- Mr. Prashant B Sawant organized a webinar on “**Designing of Virtual Lab**” on September 23, 2022 organized by Virtual Lab Nodal Center, KJSIEIT.

Activities and Achievements of Faculties:

- Mr. Prashant B Sawant attended a workshop organized by NPTEL Cloud Architecture- Design Patterns & PC on Cloud, December 17, 2022.
- Mr. Prashant B Sawant has Completed course on “**gRPC[goLang] Master Class: Build Modern API Microservices**”, udemy, January 10,2023

Achievements of Students:

- KUMAR JAYANT AJAY and KULKARNI PAVAN PRASANNA Placed in KMK Consulting with CTC 8 LPA.



- MISHRA PRASHANT OMPRAKASH and PANCHARIA PEETAMBER Placed in Zeus Learning with CTC 7.2 LPA



Achievements of Students:

- Students from Department of Information Technology Janhavi Obhan and Ritesh Kumar Pandey secured FIRST rank at 17th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) organized by University of Mumbai at Satish Pradhan Dnyanasadhana College, Thane on December 26, 2022 for **“Crowd Convert Train Crowd Management System”** under the guidance of Head of Department Dr. Radhika Kotecha.



Achievements of Students:

- Students from Department of Information Technology Aditya Wagh, Aniruddha Singh, Pranjali Padole and Ishvar Varma secured CONSOLATION at 17th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) organized by University of Mumbai at Satish Pradhan Dnyanasadhana College, Thane on December 26, 2022, under the guidance of Mrs. Sarita Rathod.



Achievements of Students:

- Student Mr. Haider Nakara presented “**Machine Learning Algorithm Recommendation System**” paper in Innovations in Artificial Intelligence and Machine Learning (ICIAIML-2022) in online mode during 20-21 August 2022 and achieved the Best Oral Presentation Award with Second Rank under the guidance of Dr. Hariram Chavan,



- Students from Department of Information Technology Shah Riday, Shivani Jha has participated and presented a Research Project titled Intelligent Human resource Information System in Commerce, Management and Law Category and UG Level at 17th Aavishkar: InterCollegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Shah and Anchor Kutchhi Engineering College, Chembur, Mumbai on December 23, 2022 for Engineering Colleges/Institutes Zone.

Achievements of Students:



- Students from Department of Information Technology Yash Bhavsar, Ehlam Hanwari and Jenil Kanani participated in selection round 17th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round) organized by University of Mumbai at Satish Pradhan Dnyanasadhana College, Thane on December 26, 2022 for **“YOGA-IT”** under the guidance of Mrs. Nasim Shah.



Achievements of Students:

- Students from Department of Information Technology Manav Gupta, Jinay Bavishi, Madhura Chavan and Abdurrahman Chauhan were winners and awarded Cash Prize of INR 9600/- in ICON 2022 (Gallery event) organized by K. J. Somaiya Institute of Management (Department of Data Science and Technology) on November 25, 2022 for the project “**Smart Door Lock**” developed under the guidance of Dr. Radhika Kotecha.



DEPARTMENT OF INFORMATION TECHNOLOGY

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