Mission of Department

To create Academic Excellence in the field of Information Technology through Education, Industry Interaction, Training and Innovation to improve quality of life of people.

We are committed to develop industry competent technocrats with life-long learning capabilities and moral values.

VISION

To develop world class IT professionals through quality education.

FROM HOD'S DESK

Dear Students,

"The ignited mind is the most powerful resource on earth" said Dr. A. P. J. Kalam. I take this pride in representing a strong and powerful youth of our department given these odd times. It has been an exceptionally challenging semester, but I commend the sheer hard work and enthusiasm of my faculty and students. Well done!!

We conducted various online programs on technical and non-technical topics to keep that bond between all of us stronger. Our students and faculty developed some solutions for our sister institutes as well as other organizations. We all are aware how software is helping us to cope up in this time. Our reach in the outside world also has increased through participation in various programs outside the institute.

I would suggest all of you to keep that passion of serving humanity through various activities lighted and at the same time take care of yourself & family.

Stay Safe and Stay Healthy!!

- Dr. M. A. Jawale
Professor and Head
Department of Information Technology

THOUGHT FOREVER :
Life gives us new lessons each day not for learning but to improve our understanding.

FROM EDITOR'S DESK

Dear Readers,

It is indeed a great honor to be the Newsletter Editor for the Department and it is an immense pleasure to launch this first edition for academic year 2020-21. I am thankful to all the students, faculty members, Head of Department, Dr. M. A. Jawale, Our Director, Dr. A. G. Thakur Management and our proud alumni who have contributed and supported me to complete this edition.
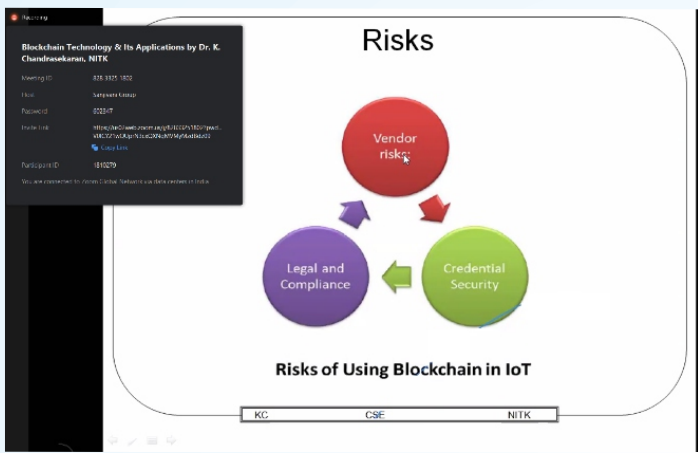
With the ongoing COVID-19 crisis, most individuals are juggling with mental stress, anxiety, and depression but as said by Pat Riley "If you have a positive attitude and constantly strive to give your best effort, eventually you will overcome your immediate problems and find you are ready for greater challenges." So Stay Safe..! & Stay Positive..!!
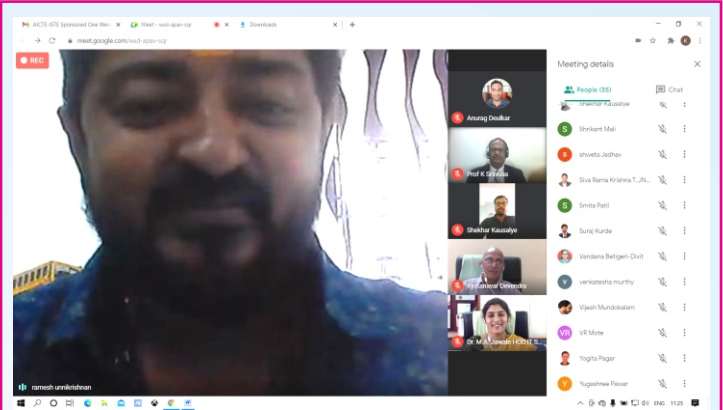
See you in the next Edition.

Ms. K. D. Patil,
Editor, IT DEPT

NEWS AT A GLANCE

- With the constant support of management who allow us to organize various technical events and workshops, Department of Information Technology has successfully organized a Webinar on "Blockchain Technology & it's Application". The webinar was conducted on 28th July 2020 by Prof. Dr. K. Chandrasekaran, NITK, Surathkal. Webinar was conducted in online platform and e-Certificate was awarded for the almost 160+ participants. The aim was to boost Technical Knowledge in Blockchain domain. Mr. C. D. Bawankar worked as a coordinator for the same.

Dr. Ramesh Unnikrishnan addressing the participants at the time of Inaugural Function
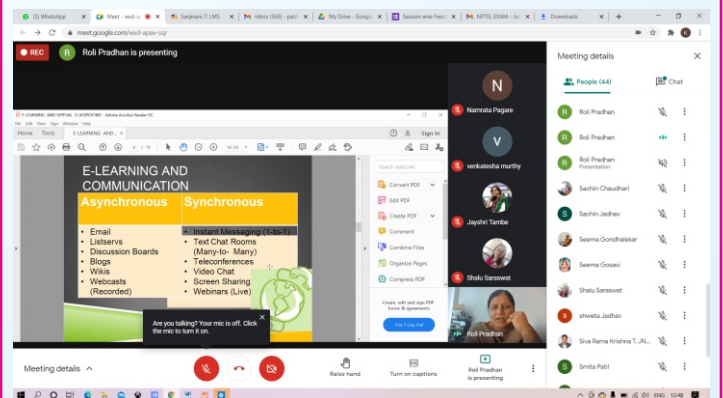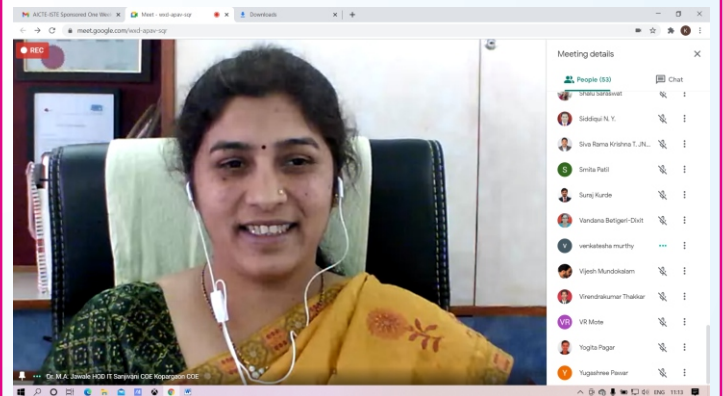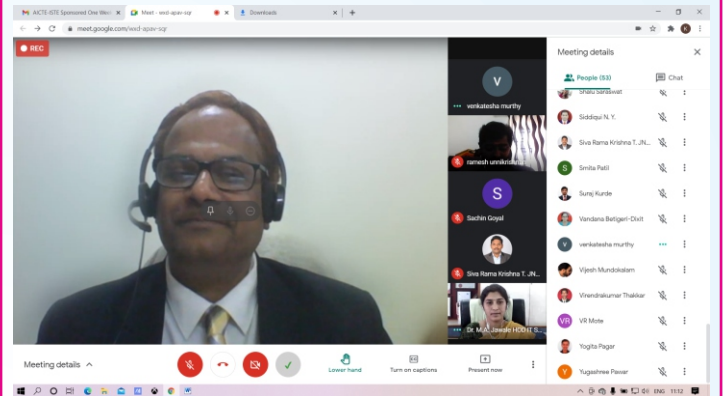

Some glimpses of the Refresher Program

- With the constant support of management who allow us to organize various technical events and workshops, Department of Information Technology has successfully organized a Webinar on "Blockchain Technology & it's Application". The webinar was conducted on 28th July 2020 by Prof. Dr. K. Chandrasekaran, NITK, Surathkal. Webinar was conducted in online platform and e-Certificate was awarded for the almost 160+ participants. The aim was to boost Technical Knowledge in Blockchain domain. Mr. C. D. Bawankar worked as a coordinator for the same.

- Happy to share that Department has organized AICTE-ISTE Sponsored Online One Week Induction/Refresher Program on "Role of ICT in Teaching Learning Process" for faculties from AICTE approved engineering Colleges/ Universities, Industry persons and research scholars. Department is thankful to AICTE and ISTE for providing this opportunity, Management and Director for their continuous support. The Program was conducted in 3 different slots. The first slot was conducted from 14th to 19th December 2020. For this Program, 190 participants from different states have

- Department got an opportunity to organize one more series of program sponsored by AICTE on **"Cyber Security and Blockchain Technology"** for faculties from AICTE approved engineering Colleges/Universities, Industry persons and research scholars. The Program was conducted in 5 different slots in online mode. The first slot was conducted from 26th to 31st October 2020, second slot was conducted from 23rd to 28th November 2020, and third slot was conducted from 7th to 12th December 2020. Altogether 500+ participants from different states have registered for the program.
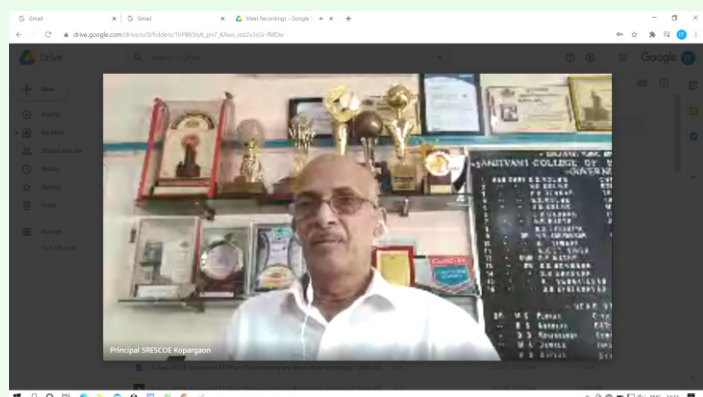
At the time of Inaugural Function Dr. D. N. Kyatanvar, Director, Sanjivani COE addressing the participants
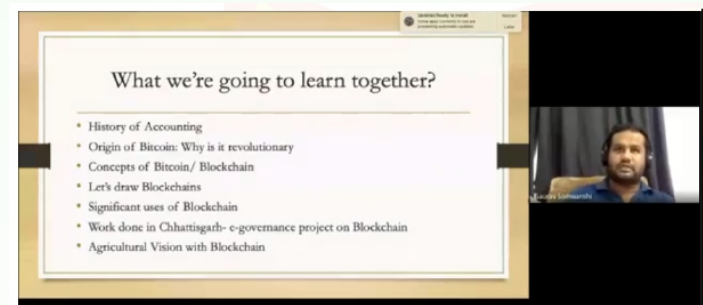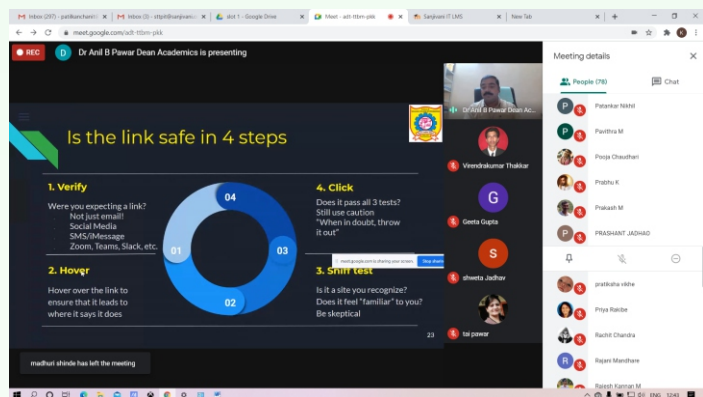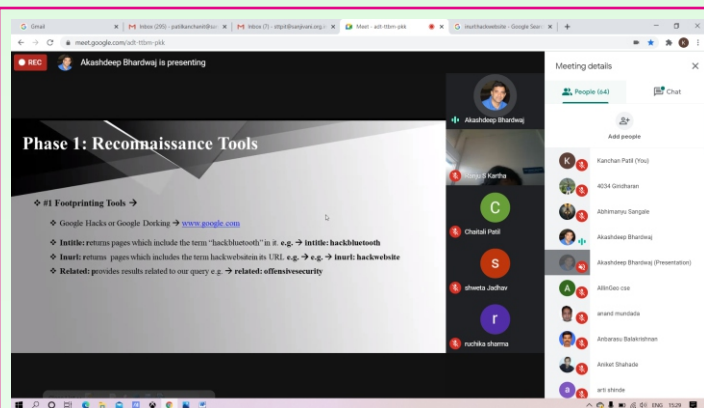
Some glimpses of the Short Term Training Program

- There is a boom of SAP in industry. Considering the industry need Sanjivani COE started SAP courses from year 2017-18. From the department, 100+ students have completed the course. I am happy to share that some of these students are completing Global Certification which is valid worldwide. Mr. Patare Uday Pradip, Ms. Hon Akanksha Raosaheb, Mr. Rode Hrushikesh Ratnakar, Mr. Shinde Saurabh Dilip, Mr. Bachhav Pankaj Rajendra, Mr. Lokhande Pooja Vitthal, Mr. Solanke Sanket Udhavrao, Ms. Shelke Mayuri Anil, Ms. Shelke Riya Bharat, Ms. Wadekar Shweta Asaram, Ms. Kulkarni Mrunal Sanjay, Ms. Nutan Gokul Bhosale, Ms. Pimpale Snehal Sunil, Ms. Sanvatsarkar Pratibha Kailas are certified as **"SAP Certified Development Associate – ABAP with SAP NetWearer 7.50"**. Ms. Kanchan Patil is working as SAP Department Coordinator.

- In this semester our NSS team has organized different Social activities such as Tree plantation, FIT India Freedom Run 2020, Celebration of World AIDs Day, Celebration of yoga day on occasion of Yoga day etc. Mr. N. S. Patankar is working as the departmental NSS coordinator.

ACADEMIC ACHIEVERS

Savitribai Phule Pune University Exam
April / May 2020 Class Toppers

BEIT

Ms. Phepale Aditi Khandu	: 9.52 SGPA	(1st)
Ms. Pimpale Snehal Sunil	: 9.41 SGPA	(2nd)
Mr. Gaikawad Pravin Bhanudas	: 9.23 SGPA	(3rd)
Ms. Hon Akanksha Raosaheb	: 9.23 SGPA	(3rd)

Savitribai Phule Pune University Exam April / May 2020 Class Toppers

BEIT

Ms. Phepale Aditi Khandu	: 9.52 SGPA	(1st)
Ms. Pimpale Snehal Sunil	: 9.41 SGPA	(2nd)
Mr. Gaikawad Pravin Bhanudas	: 9.23 SGPA	(3rd)
Ms. Hon Akanksha Raosaheb	: 9.23 SGPA	(3rd)

TEIT

Training & Placement NEWS

To improve the employability skills of students, different Training activities were carried for TEIT & BEIT students.

- In house, technical and non-technical trainings such as Soft skill, Aptitude training, Modern Job Search approach, LTI were conducted by T & P department throughout the semester.

- Next in house training was organized to brush-up technical skills of BEIT students. The first one was "Introduction to PHP" and "Object Oriented PHP". It was conducted from 16th to 28th September 2020. Mr. Yogesh Deshmukh has conducted both the trainings.

- The next technical training conducted was on "ReactJS". It was conducted from 6th to 8th October 2020 by Mr. S. S. Kausalye.

Kudos to the following students for being placed in various companies with high salary package.

Mr. Pratik Ramesh Chaudhari
Assistant System Engineer, TCS, Pune.
System Engineer, InfoSys, Pune.
Junior Developer, Winjit, Pune.

Mr. Vishal Bhagwat Chaudhari
Persistent System Ltd Pune, Pune.
Xoriant, Pune.

Mr. Sunnykumar Mahendra Choudhary
Jr. technical Associate,
ESDS Software Solution Pvt. Ltd., Nashik.

Ms. Ashiwary Kurhe
Assistant System Engineer,
Tata Consultancy Services, Pune.

RECENT DEVELOPMENT

We are glad to share that, Faculty members with students are developing projects and providing consultancy services for other departments, colleges and organizations.

- Mr. Aditya Lodha and Mr. Yash Nanaware developed **Customized Cloud Based ERP System** for Vibiko Pvt Ltd., Kopargaon. It is an import-export firm in Kopargaon having various clients across dealing with fruits and vegetables grown in India. The project was to deliver the customized ERP system. The ERP system was hosted on cloud hosting to achieve the concept of centralized data storage. It has various departments such as sales, procurement, accounts, logistics and operational management. The software generates the quotations, tax invoices, sales reports and other relevant reports using the data. It also gives reminders and alerts regarding payments and tracks the package. Dr. M. B. Gawali guided the students.

- Dr. M. A. Jawale, Head, IT and Mr. Y. S. Deshmukh, Assistant Professor, IT have successfully developed and deployed web based software application **"Sanjivani Academy Bus Pass Management System"** which generates pass automatically after giving name of student and route and **"Sanjivani Academy Stationary Store Management System"** which keeps track of stationary and make the work easy in Sanjivani Academy, Kopargaon.

Hon'ble Mrs. Manali Amit Kolhe, Director, Sanjivani Academy Felicitating Staff for the achievement

STUDENT PARTICIPATION

- Students of S.Y.B.Tech have completed NPTEL course entitled "Programming in C++". We are happy to share that Mr. Aniket Shrikrishna Jawale has completed certification examination with Elite medal.

- Ms. Gujarathi Nandini Kumar, Ms. Surabhi Kulkarni have attended "Online one week International Workshop on German language-Level 1" organized by Nagpur Institute of Technology, Nagpur during 29th June 2020 to 4th July 2020.

- Students of S.Y.B.Tech have successfully completed the courses such as Autopsy Basics Course, Business Writing, C For Everyone Programming Fundamental, Effective Communication: Writing, Design, And Presentation, Google Analytics Course For Beginners, ICSI | CNSS Certified Network, Security Specialist, Introduction To The Internet Of Things And Embedded Systems, Marketing In Digital World, Problem Solving Through C, Python For Everybody Specialization, Technical Support Fundamentals, Using Python To Access Web Data etc.

FACULTY PARTICIPATION

- All the faculty members of the department have attended different Faculty Development Programs in the field of Data Sciences, IoT, Deep Learning, Cyber Security & Forensics, Blochchain Technology, Role of ICT in Teaching Learning Process, Cloud technology, Deep Learning and Artificial Intelligence, Data Science using Python, Wearable Devices, Leadership & Excellence, Personal Effectiveness etc. organized by ATAL initiative of AICTE.

- Dr. M. B. Gawali published a research paper entitled "Sense Scheduling for Robotics Cognitive Intelligence" in Journal of Advances in Intelligent Systems and Computing as well **"Optimized skill knowledge transfer model using hybrid chicken swarm plus Deer Hunting Optimization for human to robot interaction"** in Journal of Knowledge-Based Systems, ISSN 0950-7051.

- Mr. R. D. Chintamani published research paper entitled **"Analysis of Motor Imagery EEG Classification Based on Feature Extraction and Machine Learning Algorithm"** in Journal of IT in Industry, Volume 9, Issue 02, ISSN (Print): 2204 0595 ISSN (Online): 2203-1731 as well as **"A modern approach to predict the heart disease using Machine Learning Algorithms and Techniques"** in MAT Journal of Data Mining and Management, Vol-6, Issue-1, EISSN: 2456-9437.

- Ms. K. D. Patil and Mrs. N. C. Sachade have attended online workshop on **"Inculcating Universal Human Values in Technical Education"** organized by AICTE.

- Mrs. N. C. Sachade guided around 500 post graduate students from Prin. L. N. Welingkar Institute of Management Development & Research Mumbai, Maharashtra for the **topic "Basic Human Aspirations and Concerns"** for SIP.

- Ms. K. D. Patil has guided students and successfully completed NPTEL course certification in **"Programming in C++"** with elite medal.

ITERA EVENTS

- Activities of ITERA started with, Online Ludo Competition for the students of S.Y. B. Tech, TE and BE on 25th October 2020. Winners for the competition were Rohit Maind from S.Y.B.Tech., Rutuja Pawar from TE and Vaishnavi Barbind BE.

- The second event conducted was **Online Quiz Competition** for the students of S.Y.B.Tech, TE and BE on 20th November 2020. A total of 66 students participated in the competition. Winners for the competition were Shreyas Khalekar from S.Y.B.Tech., Vaishnavi Turkane from TE and Swati Jadhav from BE.

- A Guest Lecture was organized online on 22nd November 2020 on the topic **"Career Opportunities for IT Engineer in UPSC".** The expert for the session was Miss. Kajal Deshmukh, IES Officer, 18th Rank holder in All India UPSC and All India Topper in Girls. More than 100 students along with faculty members were present for the session.
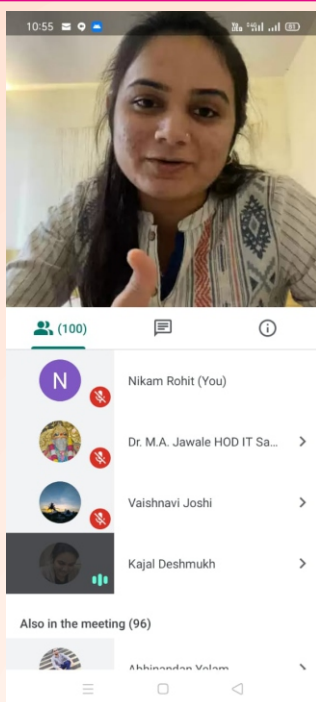
- The fourth event was online competition **Bug Squashers** and it was organized on 26th November 2020. A total of 54 students participated in the competition. Winners for the competition were Ms. Kanchan Suralkar from S. Y. B. Tech, Ms. Prayanka Gawali from TE and Ms. Dahe Samiksha from BE.

- The last event of the semester organized was Online Expert Lecture on the topic **"Advanced Concepts in Software Engineering & Database Management"** for the students of S.Y.B.Tech, TE and BE on 29th November 2020. The resource person for the lecture was of **Miss. Gauri Karade, Associate Backend Developer, IAURO System Pvt. Ltd., Pune.** More than 100 students attended the online expert lecture.


Mr. R. R. Nikam
In-Charge, ITERA

It gives us a great joy to announce that the CSI accredited student wing was formed in our college with a total of 553 students from TE, BE Information Technology and Computer Engineering Department. We are hopeful that this student wing will reach new heights by organizing thoughtful events and knowledge enrichment programs. Below is the brief description of events organized and conducted in this semester.

- The First event conducted was **"Online Programming Quiz"**. Objective of the event was to improve Programming skills of students. Total 128 students from S.Y.B.Tech, TE IT and Computer participated in the event. It was conducted on 27th October 2020. Mr. Abhijeet Mokate (TE COMP) and Mr. Rohit Kunte (S.Y.B.Tech COMP) was the winner and Mr. Rajesh Kasar (TE COMP) and Mr. Aniket Jawale (S.Y.B.Tech COMP) was the runner up.

- The Second event conducted was **"Online CCAT (Criteria Cognitive Aptitude Test)".** Objective of the event was to improve Technical skills of students. Total 179 students from S.Y.B.Tech, TE IT and Computer participated in the event. It was conducted on 23rd November 2020. Mr. Altaf Shaikh (TE IT) and Mr. Kunal Joshi (S.Y.B.Tech COMP) was the winner and Mr. Deepak Adik (TE COMP) and Mr. Arihant Lodha (SY B.Tech COMP) was the runner up.

- The Third event conducted was **"Online PyCoders Quiz".** Objective of the event was to improve Technical and Programming skills of students. Total 65 students from TE, BE IT and Computer participated in the event. It was conducted on 4th December 2020. Miss. Sujata Chavan (BE COMP) and Miss. Sonali Sonawane (BE COMP) was the winner and Miss. Damini Nagpure (TE COMP) and Mr. Altaf Shaikh (TE IT) was the runner up.

- The Fourth event conducted was Expert Lecture on **"Career Opportunities in Open Source Technology".** Objective of the event was to improve Technical skills of students. Total 100 students from S.Y.B.Tech IT and Computer participated in the event. It was conducted on 5th December 2020. Ms. Rani Patil (Asia Manager, RedHat) and Mr. Balasaheb Chavan (MBPS Pvt. Ltd., Pune) was the resource person for the same.
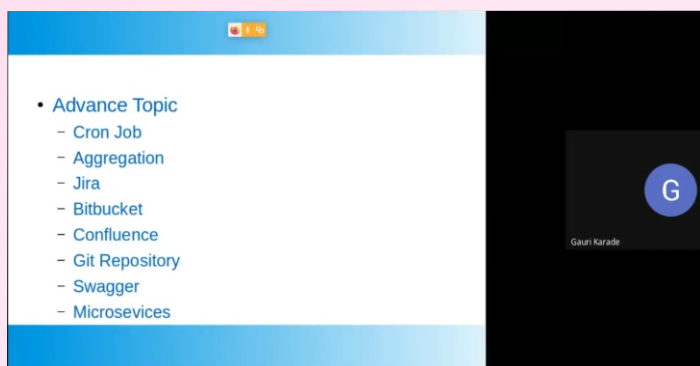
Dr. M. A. Jawale

CSI Student Branch Counsellor

ALUMNI ARTICLE

Dear Students,

First, let me start with congratulating you all for choosing the best college for your Engineering Degree. My name is Prerana Khude and I am alumni of Sanjivani college of Engineering from Department of Information Technology, 2011 year passed out. Currently, I am working as Onsite Coordinator in IBM at Chicago, USA location and leading offshore teams. I started my career with IBM itself in 2012 and have been to different locations across India and abroad. I work in IBM Mainframes technology which is considered as one of the robust and secure technology and it is widely used in all business-critical applications like Banking and Healthcare services. I enjoy working every day in my job. In my 8 years of career, I have received several awards and have many accolades on my name.

Sanjivani has played very important role in my life and career success. Education provided by college starting from Technical, soft skills to extracurricular activities helped me to achieve best things in life. I would say, IT department has got best faculty and teachers are very inspiring. They taught us how to be confident, stand out differently among others and lead. They made us to realize importance of hard work and perseverance. I got to learn important qualities like politeness, gratitude and commitment towards work from them. They created the zeal and enthusiasm to learn and experiment new things by arranging guest lectures and seminars on leading edge technologies. Being executive member of college organizations like CSI, ITERA helped to

build co-ordination, management and communication skills along with loads of fun. We had got great seniors/alumni who guided us in projects and different paths in career. I would say, this amazing journey from Kopargaon to Chicago would not have been possible without guidance and motivation from Sanjivani college, I will forever be grateful.

Lastly, I wish all the very best to each one of you and may you achieve all the great things in life. Stay healthy, stay safe!

Thanks and Regards,

Prerana Khude

preranakhude11@gmail.com

STUDENT ARTICLE

Air Quality Hotspot Detection & Identifying the Source of Trajectories Using IOT and ML

Proposed system will play crucial role in citizen's health monitoring in developing countries like India. Because of air pollutions thousands of people lose their life only in India and also among top polluted city in the world most are from India. So with such system implemented in highly traffic, industrial and pedestrian area we can easily monitor pollutant contaminant and effect of them on the health of citizens

Objectives :

- Sensors deployed at different locations helps to identify highly polluted area.

- To identify the elements that causes pollution.

- To monitor traffic emission.

- To give alert message.

- Better assessing the vulnerable people's exposure to air pollution.

System Architecture :

Proposed system architecture consists of three layers:

- Data gathering layer: This layer is consists of different sensor to sense the pollutant, processing module and module to send data for processing.

- Data processing layer: This layer will store data and process it to give desired output from collected output.

- Output layer: This layer consist of web and mobile application which will display the output which will be accessible to the all people and government agencies.

Application:

- Air quality monitoring in case of Smart city development.

- To monitor effect of polluted air on health of citizen.

- Ms. Tejal Sheshrao Nikalje,

Mr. Vishal Bhagwat Chaudhari,

Mr. Vedant Hemant Devi,

Mr. Rohit Sheshrao Bhuingal

- Guided by : Dr. M. A. Jawale

Program Educational Objectives (PEOs) :

- **PEO 1 :** Graduates of IT program should possess knowledge of fundamental concepts in mathematics, science, engineering and technology as well as skills in the field of Information Technology for providing solution to complex engineering problem of any domain by analyzing, designing and implementing.

- **PEO 2 :** Graduates of IT program should possess better communication, presentation, time management and teamwork skills leading to responsible and competent research, entrepreneurship and professionals, will be able to address challenges in the field of Information Technology at global level.

- **PEO 3 :** Graduates of IT program should have commitment to societal contributions through communities and life-long learning.

Program Specific Outcomes (PSOs):

- **PSO1** : Attain the ability to provide software solutions by applying knowledge of Data Structures & Algorithms, Databases, Web Technology, System Software, Soft Computing and Cloud Computing.

- **PSO2** : Apply the knowledge of Computer Hardware & Networking, Cyber Security, Artificial Intelligence and Internet of Things to effectively integrate IT based solutions.

- **PSO3** : Apply the knowledge of best practices and standards of Software Engineering for Project Management.

EDITORIAL BOARD

Dr. A. G. Thakur	Director
Dr. M. A. Jawale	HOD
Ms. K.D. Patil	Editor
Mr. N.S. Patankar	Member

Regd. AD/Book-Post

To, _____

_____

_____

From :
Department of Information Technology.
Sanjivani Rural Education Society's
SANJIVANI COLLEGE OF ENGINEERING,
KOPARGAON - 423 603,
Dist. - Ahmednagar. (MS)
Phone : (02423) 222862, 223362, 223947
Fax : (02423) 222682

Pincode ☐☐☐☐☐☐

"The 4 Ps for Change and Release : Planning Prevents Poor Performance."