

objects appear. However, it is free of pre-trained object detectors.

Krizhevsky et al. has organized above two methods according to the functionality of deep networks and the way of state optimization. In online MOT framework, main challenges lie in how to learn robust associating metric of linking the detections to tracks, when to create new tracks by distinguishing the true detecting results from false positive ones, and when to terminate the lost tracks. Specifically designed deep learning methods provide promising solutions to these challenges.

#### Application:

- Robotics
- Auto-Driving Cars
- Optical Character Recognition
- Face Detection And Face Recognition
- Identity Verification Through Iris Code
- Smile Detection
- Age Detection
- Object Recognition As Image Search
- Automatic Target Recognition

#### Advantages :

1. Facial detection can be utilized as a security measure to let only certain people to go into a highly classified area of a government building.
2. It can be used to count the number of members present in the meeting to automatically adjust other technical tools that will help streamline the time dedicated to that particular meeting.
3. In video collaboration, business leaders will be able to count the number of participants within a meeting to help them automate the process further and monitor room usage to ensure spaces are being used properly.

**Mr. Pratik Chaudhari**  
(TE IT)

#### 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

<b>Dr. D. N. Kyatanavar</b>	Principal
<b>Dr. M. A. Jawale</b>	HOD
<b>Ms. K.D. Patil</b>	Editor
<b>Mr. N.S. Patankar</b>	Member

#### Regd. AD/Book-Post

To, \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Pincode

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

"When the character of a man is not clear to you, look at his friends." - Japanese Proverb



# IT NEWS LETTER

## Department of Information Technology

Permanently Affiliated to SPPU, Pune.

ISO 9001 : 2015 Certified & NAAC 'A' Grade NBA accredited

SRES's Sanjivani College of Engineering,

Kopargaon - 423 603 (M.S.) Website - [www.sanjivancoe.org.in](http://www.sanjivancoe.org.in)



#### VISION

To develop world class IT professionals through quality education.

#### FROM HOD'S DESK



My future ITians, may coming New Year beams a ray of happiness, health, exuberance and vitality for all of us... I pray God that we all be safe during these unsettling times. I understand we all are going through tough times. But let us just see how well we did this semester despite of challenges all along.

First of all, I would like to congratulate all students who are placed in various companies and wish all the very best for those who are trying for their placements. Placements are result of what we have been doing since last three years. You are getting these fruits because of hard work and perseverance. My wish for you all is- "Let hard work and focus keep you on your toes; let laziness and lethargy be your foes."

This semester, for technical excellence we have been successfully able to tie up with UiPath RPA Academy, CompTIA and Oracle Academy. Already we were taking maximum benefit of two earlier tie ups like SAP and RedHat Academy. For all of these setups the purpose is to give maximum exposure to all of you to technical excellence which is expected from an Engineer. InfyTQ training for third year is sure going to help my third year class to excel in placement expectations from Infosys.

I feel proud to see the contribution which my faculty and students are doing by providing IT Solutions which are needed around us. As you all know our teaching learning process halted in mid of the semester. We all were successful up to the mark in taking this challenge together. My faculty have worked non-stop for giving you online resources and you all have also responded proactively. Kudos to you all !!!

During these times of extreme gloom and depression following continued lockdown due to the COVID-19 pandemic, I think we should change our approach on how we perceived and have taken the things for granted. We should

start valuing everything we have and you all as youth should stand by your profession to make thousands of lives easier than before. With this I would just say, "You matter, and we miss you. Stay Safe and Healthy. Take care of yourself and each other. And, no matter what happens this year, be proud of yourself, your resilience, and your ability to adapt to extreme circumstances. I am proud of each and every one of you".

**- Dr. M. A. Jawale**

Professor and Head

Department of Information Technology

#### FROM EDITOR'S DESK



Dear Sanjivani Readers,

Welcome to the new Issue of Department Newsletter! First of all, I would like to congratulate all the students who got job in various companies and entered in the real world. I wish them a very bright future. I appreciate those who have contributed in this issue of newsletter &

appeal other students to actively contribute in forthcoming Issue.

As you know that, we all are going through a pandemic situation "COVID-19" and we are at home 24 X 7. Don't be afraid of current situation rather face it with courage by taking proper precautions. During this lockdown period, I suggest not to kill the time rather learn new things which will be useful to you in future and you can see better version of yours tomorrow. After all "The struggle you are in today is developing the strength you need for tomorrow".

Be safe...Stay safe...

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

"Education begins a gentleman, conversation completes him." -Dr. Thomas Fuller

Departmental News Letter
Volume VIII, Issue II
May 2020
For internal circulation only.

#### MISSION

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.

## NEWS AT A GLANCE

- Under the flagship program of 'Sanjivani My Story Board' guest lecture of Mr. Tushar Gupta (Alumni 2006 Batch), Founder and Director, Adinav labs and Ally Spaces, Bangalore was organized for all the students of Department on 28th March 2020. Mr. Gupta has shared his success path from college student to an Entrepreneur. He guided students to have at least one Mentor in life who always motivate us and show us right path. He discussed regarding new Technologies in the market. Mr. N. S. Patankar worked as coordinator for the same.



- Department has organized Expert session on the topic "Hygiene and You" for all the Girl students of Sanjivani college of Engineering on occasion on Women's Day on 8th March 2020. Mrs. Nidhi C. Sachade was the expert speaker for this session. She discussed with girls regarding Menstruation Cycle in females and Hygiene. Ms. D. P. Bhamare worked as a coordinator for this event.



- UiPath RPA Academy: It gives us immense pleasure to announce that UiPath Academic Alliance recognize educational partnership with Sanjivani College of Engineering, Kopargaon for collaboration on growing the Robotics Process Automation (RPA) knowledge ecosystem. As a part of this Academic Alliance 70 students from TE IT have successfully completed following two courses.

- RPA Starter training
- RPA Business Analyst Training

Mr. Y. S. Deshmukh is working as a coordinator for this.

- CompTIA: Sanjivani College of Engineering has collaborated with the Computing Technology Industry Association (CompTIA) which is a non-profit trade association, issuing professional certifications for IT industry. An introductory session was conducted regarding this. Session started with demonstration of various Cyber-attacks like SQL injection, Cross Site Script and many other interesting things. CompTIA initiatives and importance of CompTIA certification courses were discussed. At the end, the session was graced with presence of Dr. A. B. Pawar, Dean academics, Sanjivani SOE, Kopargaon. He motivated students with his speech and told them to take advantage of the opportunity. Mrs. N. C. Sachade is coordinator for this.



- Oracle Academy: We are happy to share that Sanjivani College of Engineering has tie up with Oracle Academy which offers online learning resources and industry technologies for individual students and educators. 60 students from the department have registered for the courses like Java Programming, Foundation courses for database etc. Mr. R. N. Kankrale is working as a coordinator the same..
- Redhat Academy Center in association with Indian Open Source Community had conducted a online Workshop for SE IT and TE IT Students on the topic "Docker" on 17th May 2020. The Resource Person for the workshop was Mr. Ashutosh Bhakare, Community Leader and Mr. Pavan Wankhede, Community Leader. Master SunnyKumar Choudhary from TE IT Class worked as Community Ambassador for this workshop..
- In this semester our NSS team have organized different Social activities such as one person one tree, Clean campus drive – moto was to make campus plastic free, providing food service at Dhamori and awareness of

## Unique features of Python programming language

- Easy :** When we say the word 'easy', we mean it in different contexts.
  - (A) Easy to code:** Compare to other popular languages like Java and C++, it is easier to code in Python. Anyone can learn python syntax in just a few hours. Though sure, mastering Python requires learning about all its advanced concepts and packages and modules. That takes time. Thus, it is programmer-friendly.
  - (B) Easy to read:** Being a high-level language, Python code is quite like English. Looking at it, you can tell what the code is supposed to do. Also, since it is dynamically-typed, it mandates indentation. This aids readability.
- Expressive :** First, let's learn about expressiveness. Suppose we have two languages A and B, and all programs that can be made in A can be made in B using local transformations. However, there are some programs that can be made in B, but not in A, using local transformations. Then, B is said to be more expressive than A. Python provides us with a myriad of constructs that help us focus on the solution rather than on the syntax. This is one of the outstanding python features that tell you why you should learn Python.
- Free and Open-Source :** Firstly, Python is freely available. You can download it from [www.python.org](http://www.python.org) easily. Secondly, it is open-source. This means that its source code is available to the public. You can download it, change it, use it, and distribute it. This is called FLOSS (Free/Libre and Open Source Software). As the Python community, we're all headed toward one goal—an ever-bettering Python.
- High-Level :** It is a high-level language. This means that as programmers, we don't need to remember the system architecture. Nor do we need to manage the memory. This makes it more programmer-friendly.
- Interpreted :** If you're any familiar with languages like C++ or Java, you must first compile it, and then run it. But in Python, there is no need to compile it. Internally, its source code is converted into an immediate form called bytecode. So, all you need to do is to run your Python code without worrying about linking to libraries, and a few other things. By interpreted, we mean the source code is executed line by line, and not all at once.
- Object-Oriented :** A programming language that can model the real world is said to be object-oriented. It focuses on objects, and combines data and functions. Contrarily, a procedure-oriented language revolves around functions, which are code that can be reused. Python supports both procedure-oriented and object-oriented programming which is one of the key python features.

- Extensible :** If needed, you can write some of your Python code in other languages like C++. This makes Python an extensible language, meaning that it can be extended to other languages.
- Embeddable :** It is also possible to put our Python code in a source code in a different language like C++.
- Large Standard Library :** Python downloads with a large library that you can use so you don't have to write your own code for every single thing. There are libraries for regular expressions, documentation-generation, unit-testing, web browsers, threading, databases, CGI, email, image manipulation, and a lot of other functionality.
- Dynamically Typed :** Python is dynamically-typed. This means that the type for a value is decided at runtime, not in advance. This is why we don't need to specify the type of data while declaring it.

Thanks & Regards,

**Mr. Nikhil Bagul**

(Alumni 2006 Batch)

Business Owner, Hiten Technologies

Dipstambh International Training Academy  
nikhil.bagul@hitentechnologies.com

## RECENT DEVELOPMENT

### Multiple Objects Tracking Using Deep Learning

Multiple Object Tracking (MOT) tries to track multiple objects present in all the frames over a given image sequence. MOT generally has an object detector to detect the objects in each frame and then utilizes a detection association method to track them over time. Almost all the MOT methods follow such tracking-by-detection framework.

#### Methods of multiple object tracking :

- Detection-Based Tracking :** Objects are first detected and then linked into trajectories. This strategy is also commonly referred to as "tracking-by-detection". Given a sequence, type-specific object detection or motion detection (based on background modeling) is applied in each frame to obtain object hypotheses, then (sequential or batch) tracking is conducted to link detection hypotheses into trajectories.
- Detection-Free Tracking :** DFT requires manual initialization of a fixed number of objects in the first frame, and then localizes these objects in subsequent frames. DBT is more popular because new objects are discovered and disappearing objects are terminated automatically. DFT cannot deal with the case that

- 'Online Aptitude Test' was organized for all students of department on 3rd May 2020. A total of 95 students participated. From FY B. Tech Mr. Hon Chandrakant was winner and Mr. Saisagar Rammale was runner up, From SE IT Ms. Priyanka Gawali was winner and Ms. Vaishnavi Adhav was runner up, from TE IT Ms. Ms. Swati Jadhav was winner and Ms. Tejal Nikalje was runner up, and from BE IT Ms. Vishakha Autade was winner and Ms. Nikita Bhosale was runner up.

- The last event organized was "Poster & PPT Presentation competition" from 3rd May to 6th May 2020. Total 20 students participated in the competition. From FY B. Tech Ms. Arpita Game was winner and Ms. Shridhar Deshpande was runner up, from SE IT Mr. Altaf Shaikh was winner and Ms. Sejal Rathi was runner up, from TE IT Mr. Ashish Bidve, and Ms. Swati Jadhav was runner up and from BE IT Ms. Aditi Phepale was winner and Mr. Abhishek Urfate was runner up.

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

## CSI EVENTS

- The First event conducted was Expert Lecture on "Project Presentation". Objective of the event was to improve Project Presentation Skills of students. Total 68 students (48 from BEIT, 18 from BE Computer and 2 from BE Civil participated in the event. It was conducted on 13th January 2020. Mr. S. R. Karode (CSI Fellow) was the resource person for the same.



Dr. D. N. Kyatanavar, Director SCoE, Kopargaon facilitating Mr. S. R. Karode

- The Second event conducted was "PyCoders". Objective of the event was to improve Technical and Programming skills of students. Total 60 students from TE IT and TE Computer participated in the event. It was conducted on 30th January 2020. Mr. Aniket Mate (TE COMP), Mr. Sudhant Sabinis (TE COMP) was the winners. Miss. Rupali Gerkar (TE COMP) and Miss. Arati Jadhav (TE COMP) was the Runner-up.

- The Third event conducted was Expert Lecture on "Recent Trends and Career Opportunities in RedHat".



Objective of the event was to improve Technical skills of students. Total 75 students from SE IT and SE Computer participated in the event. It was conducted on 1st February 2020. Mr. Balasaheb Chavan (MBPS Pvt. Ltd., Pune) was the resource person for the same.

- The Fourth event conducted was "Online Technical Quiz". Objective of the event was to improve Technical skills of students. Total 90 students from TE IT and TE Computer participated in the event. It was conducted on 25th April 2020. Miss. Nikita Kabade (TE COMP) was the winner and Mr. Anand Sonawane (TE COMP), Mr. Mahesh Wandhekar (TE COMP) and Mr. Hemant Durdhawale (TE COMP) was the runner up.
- The Fifth event conducted was "Online CODE WAR". Objective of the event was to improve Technical and Programming skills of students. Total 67 students from SE IT and SE Computer participated in the event. It was conducted on 9th May 2020. Miss. Aghila Aynikkadan (SE COMP) was the winner and Miss. Rutuja Gholap (SE COMP) was the runner up.

**Dr. M. A. Jawale**  
CSI Student Branch Counsellor

## ALUMNI ARTICLE

### Popularity of Python

Recently, there are so many languages in market, but Python is the most popular language now-a-days. Let's see how and why?

- **PYPL** : The PYPL Popularity of Programming Language Index is created by analyzing how often language tutorials are searched on Google. The more a language tutorial is searched, the more popular the language is assumed to be. It is a leading indicator. The raw data comes from Google Trends.
- **TIOBE** : TIOBE is specialized in assessing and tracking the quality of software. We measure the quality of a software system by applying widely accepted coding standards to it.

voter's day and street play on road safety etc. Ms. Zunge Sonali, Ms. Mayuri Shelke, Ms. Riya Shelke, Mr. Soham Dixit, Ms. Kalyani Deshmukh, Ms. Mrunal Kulkarni, Mr. Jayram Pansare, Ms. Apeksha Giri, Mr. Santosh Chavan and Mr. Shantanu Vetal enthusiastically participated in each activity. Mr. N. S. Patankar is working as the departmental NSS coordinator.



## ACADEMIC ACHIEVERS

### Savitribai Phule Pune University Exam November / December 2019 Class Toppers

#### BEIT

- Ms. Phepale Aditi Khandu : 9.18 SGPA (1st)
- Ms. Pimpale Snehal Sunil : 8.82 SGPA (2nd)
- Mr. Gaikwad Pravin Bhanudas : 8.73 SGPA (3rd)

#### TEIT

- Ms. Chobhe Snehal Namdeo : 8.34 SGPA (1st)
- Ms. Khandekar Purva Sahebrao : 8.08 SGPA (2nd)
- Ms. Jadhav Swati Ganpat : 8.17 SGPA (3rd)

#### SEIT

- Mr. Shaikh Parvej Anwar : 9.36 SGPA (1st)
- Ms. Kale Ashwini Dattatray : 9.20 SGPA (2nd)
- Mr. Pawar Yogesh Dattatray : 8.88 SGPA (3rd)
- Ms. Trivedi Himani Ganesh : 8.88 SGPA (3rd)

## STUDENT ACHIEVEMENTS

- Mr. Pravin Gaikwad has presented and secured 1st rank in IOT Track for the paper entitled "IOT based Smart Home Automation", at National Conference on "Approach and Benefits of Modern Smart Agriculture and Health Sensing Technology (ABMSAHT-2020) sponsored by CSIR held during 23rd & 24th January 2020 at Sanjivani College of Engineering, Kopargaon.
- Mr. Abhishek Urfate, Mr. Sagar Barud, Mr. Rohit Bagul, Mr. Siddharth Sonawane has published paper on "IOT based Health Monitoring Bot" in International Journal for Research in applied Science & Engineering Technology, Vol. 8, Issue-V in May 2020.

- Mr. Pratik Chaudhary and Mr. Sunnykumar Chaudhary has successfully completed all the program requirements and certified as Red hat certified system administrator (level 1), Red hat certified Engineer (level 2). Mr. Sunnykumar Chaudhary is also a Red Hat Academy Student Ambassador for academic year 2019-20 and 2020-2021 at Sanjivani College of Engineering Kopargaon. Under Red Hat Student Ambassador activity, he has coordinated workshop on Red Hat Technology for the second year students on 10th March 2020 and an online technical quiz competition for second year and third year students on 6th April 2020.

- In this semester all the students of department have registered for different courses of NPTEL online courses such as Python for Data Science, Java Programming, C programming etc.

- All students have registered for different courses offered by Coursera, Udemy, UiPath, CompTIA etc. 60 students completed 7 week course "Programming for Everybody (Getting Started with Python) offered by Coursera. 30 students from third year completed "Python Data Structure" offered by Coursera

- Almost 30 Students from second year have successfully completed courses like Cybercrime Awareness, Cyber forensic, ICSI N/W security etc. offered by Udemy under the guidance of Mr. Tanmay Dixit, Expert, Cyber Awareness and Forensic.

## T & P NEWS

- To improve the employability skills of students, different Training activities were carried out for students of department.
- In this semester, for the preparation of Infosys placement Test, 6 days InfyTQ training was conducted for all students of TEIT from 22nd January to 27th January 2020. In the same regard, 2 days webinar was attended by all third year students.

Hearty Congratulations to the following students for being placed in various companies with high package.

  
Ms. Pimpale Snehal Sunil  
Assistant System Engineer, TCS.  
SAP Trainee, Cognizant Technology, Pune.

  
Ms. Shelke Riya Bharat  
Junior Test Engineer,  
Zensoft, Pune.  
SAP Trainee,  
Cognizant Technology, Pune.

  
Ms. Shelke Mayuri Anil  
Jr. Tester, Ubisoft, India.

Mr. Gawad Pushkar Sarang  
Jr. Tester, Ubisoft, India.



Ms. Autade Vishakha Sanjay  
Jr. Tester, Ubisoft, India.



Mr. Dusane Pratik Devidas  
Software Developer,  
Coditas, Pune.



Ms. Pooja Pradip Bhagat  
Dhoot transmission,  
Aurangabad



Mr. Magar Shubham Vilas  
System Engineer,  
Infosys, Mysore.



Pranita Pravin Bakale  
Dhoot transmission,  
Aurangabad.



Varad Rajiv Supekar  
Dhoot transmission,  
Aurangabad.



Vandana Gangadhar Gadekar  
Dhoot transmission,  
Aurangabad.



Nikam Kiran Shivaji  
Dhoot transmission,  
Aurangabad.



- Along with above placements following are some more
- Mr. Sagar Bhaskar Hole placed in Perfect Software Solutions
- Mr. Dhiraj Khedkar is placed in Knooviq Technologies, Mumbai
- Ms. Shivarkar akshata ranjit, Ms. Savanstsarkar pratibha kailas, Ms. Bhandari Mrunal Premraj, Ms. More Shubhangee Rambhau, Ms. Dandwate Pallavi Suresh, Ms. Chandar Kajal Ranjan, Ms. Pangavhane Priya Bhausaheb, Ms. Gorade Akshada Pandurang, Ms. Kulkarni Mrunal Sanjay, Ms. Zunge Sonali Sanjay placed in Dhoot Transmission
- Ms. Dandwate Pallavi Suresh, Ms. Shivarkar Akshata Ranjit, Ms. Kale Kamini Kailas, Ms. Bansode Pooja Prabhakar, Ms. Bornare Vipul Bhaskar placed in Just dial

## RECENT DEVELOPMENT

- Happy to share that, one of the startup "SYAM-AI ERP solutions" has been registered under Ministry of micro, small and medium enterprises. Under this startup Mr. Aditya Lodha and Mr. Yash Nanaware develop Enterprise Resource Planning (ERP) software for Amalgamated Pvt. Ltd., Nashik, Lalit Hydraulics, Nashik and Shree polyfabricators, Sinner. Dr. M. B. Gawali guided the students throughout the Process and Project completion.
- Two students of BE IT, Mr. Sahil Dabhade and Mr. Avinash Chitalkar have completed the project entitled 'Online Examination Form Filling System for Sanjivani College of Engineering, Kopargaon' under the guidance of Ms. K. D. Patil. The system successfully maintains the records of the examination forms filled by the students as well remaining students branch-wise, Add records just by uploading the MS-Excel file of the student details, Provide easiest way to fill exam form details just by selecting the name of the student as well Users can be easily created to fill the forms, Administrator can manage the database at ease. The system also provides facility for generating and downloading the reports in different formats and print receipt.
- Mr. C. D. Bawankar & Mr. S. S. Kausalye have developed "Library Management System with Barcode reader (LMS)" for Sanjivani Academy, Khirdiganesh, Kopargaon. The librarian was facing problem for issuing books and returning it within given time constraints with the manual work. As the manual works is consuming more time, this system was designed in such a way that it takes very less time to issue and return the book, the time required to issue and return is less than 3 second, where barcode reader and computer is used. The developed system also generated various reports, keeps track of books issues and returned, adding new books, tagging lost book, keeping track of digital media like educational DVD, CD etc., searching books, etc. This software system streamlined the work of Library and saved precious time of the library so that more students can take benefits of library books.

## FACULTY PARTICIPATION

- Congratulations to Prof. Dr. M. A. Jawale for being awarded as "Best Teacher" from Professional courses by Savitribai Phule Pune University, Pune for the academic year 2019-20. She has received award on 26th January 2020.



- Dr. M. B. Gawali presented paper entitled "Optimal Allocation for Robotics Tasks in Cloud Computing" at 8th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020) held during 4th & 5th January 2020. Jointly organized by School of Management and Department of IT, NIT, Surathkal, Karnataka.
- Mr. N. S. Patankar has presented and secured 1st rank in IOT Track for the paper entitled "IOT based Smart Home Automation", at National Conference on "Approach and Benefits of Modern Smart Agriculture and Health Sensing Technology(ABMSAHT-2020) sponsored by CSIR held during 23rd & 24th January 2020 at Sanjivani College of Engineering, Kopargaon.
- Dr. M. A. Jawale worked as a resource person for the expert talk on "Recent trends in computer and Information Technology sector" at SNJB College of Engineering, Chandwad.
- Mr. R. D. Chintamani has conducted workshop on "Application of Distributed Cloud Computing" for BE IT Students at PREC College of Engineering, Loni on 18th February 2020.
- Mr. N. S. Patankar, Mr. R. D. Chintamani and Mr. Y. S. Deshmukh have published paper entitled "Virtualization Types in Cloud computing" in Journal of Advancement in Parallel computing, Vol. 3 issue 1 in year 2020.
- Ms. K. D. Patil has published paper on "IOT based Health Monitoring Bot" in International Journal for Research in applied Science & Engineering Technology, Vol. 8, Issue V in May 2020.
- Mr. N. S. Patankar has published paper on "IOT based Smart Home Automation by Sensor Node", in JETIR ISSN UGC Approved (Journal No: 63975) Vol.6 Issue 6 on 2nd January 2020.
- All the faculty members of department have completed NPTEL courses, attended FDPs on different topics such as Data Science with Python, Internet of Things,

Outcome based education etc. to upgrade their knowledge. Along with this, all the faculty members have completed different online courses under Coursera, Udemy etc. short term training

## ITERA EVENTS

- The First event, an 'Expert lecture' of Mr. Krishna Borse, Associate Consultant at Capgemini Pvt. Ltd., Pune and alumni of 2015 batch was organized on the topic "Automation Engineering" on 31st January 2020. For the expert lecture 60 students were present.



Mr. Borse clearing doubts of students during session

- The 'Sport event' was organized for all the students of IT department on 1st and 2nd February 2020. For boys, Volleyball and for girls Badminton was organized. Winner for badminton was Ms. Pranali Dhamale (F.Y.B. Tech) and runnerup was Ms. Shelke Riya (BEIT). For Volleyball TEIT students were winner and BEIT students were runner up.



- Next Event organized was 'C Coding Competition' on 11th March 2020. Mr. Gayke Kalpanath & Mr. Asad Shaikh from F.Y. B. Tech. were winner and Runner up respectively. From SEIT Mr. Subodh Jadhav was Winner & Mr. Shaikh Altaf was Runner up. Mr. Jayram Pansare was Winner & Mr. Sai Mahale was Runner up from BEIT.