



MAHAVIR EDUCATION TRUST'S  
**SHAH & ANCHOR KUTCHHI  
ENGINEERING COLLEGE**  
CHEMBUR, MUMBAI-88

# PERCEPTRON

Computer Engineering Department  
2018-19

## OUR VISION

"To develop computer engineering graduates with engineering and managerial skills to acquire high end positions that are globally recognized."

## OUR MISSION

"To impart computer engineering knowledge and to provide exposure to the latest technologies so that, students can solve various engineering problems and possesses social, ethical responsibilities and have the attitude of lifelong learning so as to bring about competent professionals."

## PROGRAM EDUCATIONAL OBJECTIVES

1. To impart knowledge of fundamentals of all the courses of computer engineering so that, the students are able to analyse, design, implement and test various engineering problems from different application domains.
2. To provide exposure to latest technologies and adequate training to work as a team to inculcate among the student's social responsibilities and respect towards society by creating societal environment.
3. To promote student awareness on the lifelong training and introduce them to professional ethics and code of professional practices.

## FROM HOD'S DESK



"PERCEPTRON" gives insight into the working culture of the department. Yet another year with new and creative work done by the design and editorial team to come up with this excellent edition of magazine for 2018-19. We strive our level best to give maximum to the students through different technical and cultural events. Some of the impactful events organized by the department are worth mentioning here. The department's landmark technical event PiXEL, The Tech Conclave, has brought eminent personalities together on one platform. This event went out of SAKEC boundaries having attendees from other colleges giving it a feel of a district level event.

First time in the history of Shah and Anchor Engineering College, our department grabbed sponsorship from AICTE for a Short Term Training Program on Web technologies – new trends. Overwhelming response from faculty of different engineering colleges across Maharashtra and other states attending the training program. Noted Technical Author and former CEO of LTIT, Mr. Achut Godbole had given an inaugural speech which went live with many joining virtually. I congratulate the team for creating wonderful magazine for readers.

## FROM EDITOR'S DESK



Hello All,

It gives me an immense pleasure to come back with the new version of PERCEPTRON, a magazine for the academic year 2018-19, by Computer Engineering Department of Shah and Anchor Kutchhi Engineering College. This magazine has been a platform to perceive various activities and events conducted by the department. It is a platform to exhibit various activities, of which students and faculty members have organized, attended and excelled in. The magazine presents the achievements of students and contributions of teachers for the personal and department excellence.

Along with the team, we would like to share our gratitude and heartfelt thanks to all those who have contributed to make this effort a success. We thank the Management for giving support and encouragement to all the members. We are able to meet exclusivity with guidance of our Principal. We thank Head of Department, Computer Engineering Department, to give us the opportunity to be a part of Perceptron publication team. We wish all the people involved to make headway and keep on excelling. *"The beautiful thing about learning is that no one can take it away from you."* —B.B. King.

Tina Maru

Chief Editor - Perceptron

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## PIXEL 2019



**PIXEL 2019**, Tech Conclave on 26th March 2019, witnessed experienced professionals coming together and discussing with the students about the stories of their journeys as triumphant technocrats, entrepreneurs and dynamic personalities. The event started on with the PIXEL team cordially inviting the guest speaker and dignitaries.

The spectacular line-up of sessions consisted of **Mr. Vivek Singh**, Blockchain Technical Advisor at Hyperion X, enlightening on *BlockChain*. Next speaker **Mr. Dhruva Mota**, Founder & Game Developer at CTRL F5 & ELEMENTAL GAMES, **Mr. Viral Vora**, Founder & Game Developer at CTRL F5 & ELEMENTAL GAMES, and **Mr. Aditya Mule**, Senior Game Developer at Gametion discussed on *Game Development*.

Third talk was with **Mr. Kushal Sankhe**, Co-Owner at Blanco, Bombay Cocktail Bar and **Ms. Amreen Luthra**, CEO & Founder of Amreen Luthra Training System discussed on *Entrepreneurship*.





Mr. Sankalp Mate, Cyber Security Analyst at Pristine InfoSolution Pvt Ltd interacted on topic of *Cyber Security*, while next talk with Mr. Harsh Vitra, Founder at Enroot Mumbai gave awareness on *Code in X*. Mr Kunal Pandit, Singer & Mr Vinayak Patil, *Super Vinay* where *Influencers*. This immensely successful and impactful event was managed and co-ordinated by team PIXEL consisting students of Computer Engineering Department, who put together a memorable and brilliant show.



## WEB TECHNOLOGIES – NEW TRENDS

The Department had organised AICTE-ISTE approved and sponsored Short Term Training Program (STTP), “Web Technologies - New Trends” from 2nd to 7th July 2018. The STTP was inaugurated by the renowned author **Mr Achyut Godbole**, Chief Guest, at the 7<sup>th</sup> floor auditorium. Vice Principal, Dr. V. C. Kotak, and Head of Department, Prof. Uday Bhave were present in the inauguration ceremony. In his speech Dr. V. C. Kotak made the participants aware about the importance of knowledge of new trends in web technologies and motivated the participants for studying Web Technologies. Prof. Uday Bhave also addressed the participants. He thanked the participants for registering and congratulated them for being selected. He talked about a few new technologies and importance of learning them in the current scenario.

After inauguration, Mr Achyut Godbole delivered the keynotes address. In his enlightening speech, “I. T. - Yesterday, Today and Tomorrow”, he talked about evolution of I. T. and shared his experiences in this field he had when working as a CEO of Patni, L&T and Apar Technologies.





Later, participants proceeded to Lab 209 where Mr Jayanthi Gokhale, Director, Intellisys Application Solution Pvt. Ltd., Mumbai conducted hands on sessions on HTML5 and CSS3. He covered text formatting tags, Lists, Tables, anchors in HTML 5. After Lunch break Mr Gokhale started CSS3. He taught inline, internal and external style sheets. He taught the need of using style sheets.

The second day started with a hands on session on MongoDB by Mr Bhushan Jadhav, Assistant Professor, TSEC, Mumbai. He explained what is NOSQL, types of NOSQL, graph stores. After covering these concepts he started MongoDB. After completing a few hands on sessions, he introduced Cassandra. After lunch, Mr Bhushan Jadhav conducted hands on session on XML. On the third day Mr Bhushan Jadhav started JavaScript. He explained what is JavaScript, what is its use. Then he conducted several hands on sessions on JavaScript. The participants developed several small scripts to learn how it works. They also developed some simple animations to make the web page attractive. In the post lunch session they worked with jQuery to develop some more complex animations.

After tea break in the afternoon, Mr Rashmin Pulekar, International Speaker, Art of Living Foundation delivered a session on Art of Living. The participants asked questions about how to live a stress free life, how to meditate, how to overcome boredom etc. Mr Pulekar answered the questions by giving some interesting examples, telling some interesting stories. Then he made the participants practice some Kriyas to rejuvenate the participants. He ended the session with a small meditation.

The 4<sup>th</sup> day started with Mr Jayanthi Gokhale's session on PHP. Mr Gokhale explained different server side technologies and explained the benefits of PHP. The participants started with installation of XAMPP package on Windows OS to use PHP. After installation they developed some elementary scripts in PHP. After participants became comfortable with simple PHP scripts, Mr. Gokhale conducted some hands on sessions on some complex applications. After tea break in the afternoon, Mr. Gokhale taught how to deploy a website on the server. He explained several issues regarding the responsiveness and security of the website.

The day 5 started with the session on Laravel by Mr Nilesh Vidhate, software engineer, Cyber Indigo Systems, Mumbai. The participants learnt installation of Laravel on Ubuntu machines and developing small applications using MVC framework.



On day 6, Mr. Anil Patil, Senior Trainer, CapGemini conducted hands on sessions on Ajax. Participants developed several small applications to learn it. The examination was conducted after lunch from 2 to 3 PM. Mr Jayanthi Gokhale delivered a concluding address. In his address, he discussed, several new technologies used to develop good websites for Computer and Mobile Devices. He discussed the road ahead for further development.

During the valedictory function, Chairman of Mahavir Education Trust, Honourable Shri Keshavjibhai Chhadva and Managing Trustee, Honourable Shri Navinbhai Shah, Speaker, Mr. Jayanthi Gokhale, Principal, Dr Bhavesh Patel, Vice Principal, Dr V. C. Kotak and Head of Department, Prof. Uday Bhavne were present. Dr Bhavesh Patel addressed the participants. In his speech he made the participants aware of the initiative by AICTE-ISTE for such programs to keep the faculty of Engineering Institutions updated with the knowledge of latest technologies. He congratulated the participants for successfully completing the program. Dr V. C. Kotak addressed the participants and congratulated them. Prof. Uday Bhavne also addressed the participants and congratulated them. Concluding the event, vote of thanks was given by Ms. Monika Kanojiya, Coordinator of the STTP.



# ORIENTATION PROGRAM ON THEORY OF COMPUTER SCIENCE



On behalf of University of Mumbai, Computer Engineering Department had organized an Orientation program of the course "Theory of Computer Science" of Third year Computer Engineering (Rev. 2016), Semester V on 13<sup>th</sup> July 2018 from 2.00 PM to 4.00 PM in 4<sup>th</sup> Floor seminar hall. Faculties from various Engineering Colleges of University of Mumbai had participated in the program. The details of syllabus chapters and recommended books contents were discussed. The event was coordinated by Prof. Uday Bhawe, Prof. Shahzia Sayyad and Prof. Jaya Zalte.



## ORIENTATION PROGRAM ON ENTERPRISE RESOURCE PLANNING

New elective subject Enterprise Resource Planning (ERP) got introduced in final year Computer Engineering syllabus. An orientation program to discuss syllabus and reference books was organized on 21st Jan 2019 by the department. Dr. Dhananjay Kalbande and Dr. Gresha Bhatia has conducted the program for the faculties of the different colleges under the University of Mumbai. Also, case studies for mini projects were discussed. The weightage for chapters, Internal assessment and end semester examination question paper pattern was discussed. Designing the Rubrics for the mini project and having a presentation of mini-projects were also suggested.



# DATA CENTER TECHNOLOGIES - NEED OF THIS HOUR

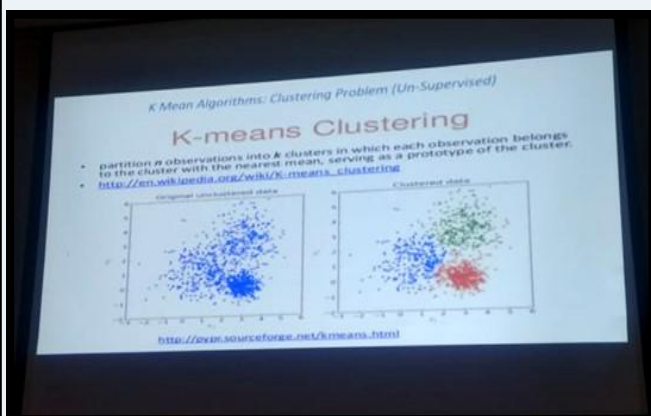
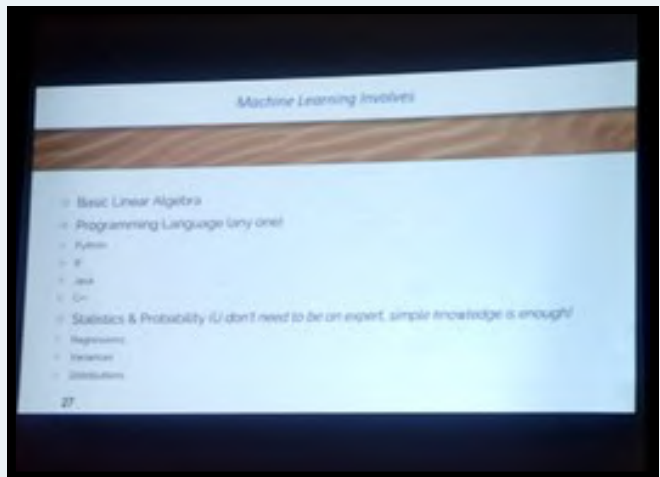


The Computer Engineering Department has organized faculty development program and student development program on **DataCenter Technologies – Need of this Hour** on 29th September 2018. The session speaker, Mr. Ramesh S. Kharat, is a Chief Technology Officer (CTO) at Priar Web Private Limited. The session was started after the felicitation of speaker by Head of Department, Prof. Uday Bhawe. The speaker had enlighten about different Datacenter technologies, job profiles/roles, and job opportunities in this area. Both teachers and students were benefited by the session contents. The event was concluded by thanking the Mr. Kharat with token of appreciation.



# MACHINE LEARNING WITH PYTHON

Machine Learning with Python was conducted on 19<sup>th</sup> January 2019 at 4th floor seminar hall. The webinar was conducted for all the faculty of Computer Engineering Department from 11:30 am to 1:00 pm by Monkfox Bangalore. In this webinar various topics covered such as concept of machine learning, machine learning process that is identification of data sets, selection of machine learning algorithm, build an analytical model based on the chosen algorithm, training the model on test data sets, runs the model to generate scores and other findings. The program explained how machine learning works with examples, various machine learning algorithms, unsupervised algorithms and supervised algorithms. Session was ended with question & answer. This session was very informative, which covered all the basic concepts of the machine learning with future scope of the machine learning.



## ENHANCE SKILLS WITH BLOCKCHAINS

Student development program on Enhance Skills with Blockchains was organised by the department on 3rd October 2018. The session speaker, Ms. Shilpa Karkeraa, CEO & Innovations Strategist Myraa Technologies was felicitated by Head of Department, Prof. Uday Bhawe. She being a Researcher, AI Expert, Blockchain Architect, Serial Entrepreneur, Global PyCon Speaker, guided students in this area.



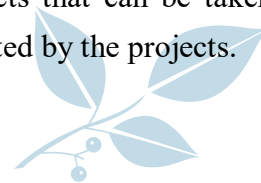
## ALUMNI TALK ON “TECHNICAL SKILLS NEEDED FOR CORPORATE JOBS”

An Alumni Talk gives a boost to students currently studying in different years of engineering. In this view, a session was arranged by the department on 4th October 2018. Our alumni Mr. Akshay Deshpande had delivered motivating talk on Technical Skills needed for Corporate Jobs. He shared his journey through college and after entering corporate world. He highlighted key points on skill sets needed in corporate environment.



## POSTER PRESENTATION

Final Year Project Poster Presentation was conducted by Department of Computer Engineering on 20th March 2019 on 7th floor Drawing hall for Third Year students. The event was coordinated by Prof. Shahzia Sayyad and Prof. Deepshikha Chaturvedi. Around 57 project groups participated and presented in the event. Vice Principal Dr. V. C. Kotak, Head of the department, Prof. Uday Bhawe and senior faculties of the department went through the presentations of each group enthusiastically. They congratulated the students for their efforts and teamwork. Also faculties from other departments visited to encourage and appreciate the students. The posters of projects from different domains like Security, Data Mining, Mobile Communication, Big Data and Networks etc., were showcased to give a glimpse of an understanding of what is expected in BE project, kind of projects that can be taken up in different domains. Third year students were impressed and motivated by the projects.



## APPLICATION SERVER CONFIGURATION IN LINUX

CSI-SAKEC in collaboration with Computer Engineering Department had organized a workshop on Application Server Configuration in LINUX on 18th July, 2018. The speakers for the event were Prof. Shilpa Kalantri & Prof. Vaishali Hirlekar. Concepts covered were Linux basics and networking commands, configuration of IP Address in Linux environment, installation and configuration of remote login server (TELNET and SSH) and installation and configuration of public and private FTP server and file transfer. The event ended with encouraging speech by Head of Department Prof. Uday Bhawe. The event was coordinated by CSI coordinator Prof. Deepshikha Chaturvedi and student coordinator Mr. Dishank Gangar.

All the participants were provided with signed certificate of appreciation on successful completion of the workshop. The workshop ended with great feedback.



## PHOT-O-MAGIC



PHOT-O-MAGIC workshop was organized by Computer Engineering department in collaboration with CSI-SAKEC on 25th July 2018 for students interested in photoshop. The tutor for the workshop was Mr. Prakash Parmar. The workshop covered basic tools of Adobe photoshop their information as well as usage, Image manipulation, variable usage, photo and certificate editing. The event ended with encouraging speech by Dr. Rekha Ramesh, Professor and CSI coordinator. All the participants were given certificate for successful completion. Students provided overwhelming feedback for workshop arranged by Mr. Chintan Chheda.



# Photoshop



## IONIC FRAMEWORK

*Ionic* is the app development platform for web developers used to build amazing cross platform mobile, web, and desktop apps. More than 40 students attended the workshop. Topics covered were Ionic installation, HTML/CSS, basic operation in ionic, creating app using ionic framework. The speaker, Mr. Vivek Gawande, final year student of computer engineering student who coached the students clearly. Dr. Rekha Ramesh concluded the event with words of appreciation for speaker and enlightened students to take up such opportunities. The feedback given by the students was awesome. The event was coordinated by Prof. Deepshikha Chaturvedi and student coordinator Mr. Atharva Juikar .



# TENSORFLOW FRAMEWORK FOR MINING



CSI-SAKEC in collaboration with Computer Engineering Department had organized TENSORFLOW FRAMEWORK FOR MINING. The speaker for the event was Mr. Aakash Shah, final year student of computer engineering. Around 35 Students attended the workshop. Topics covered were learn TensorFlow framework (TensorFlow is an open-source software library for data flow programming across a range tasks), Introduction to machine learning, where it is used and how it is implemented, What is tensor and how the name was given ,How to integrate it in code, Hands on TensorFlow (Image recognition), Creating neural network & Gathering dataset. The event ended with encouraging speech by Dr. Rekha Ramesh.



## ATTACK & SECURITY IN CYBER ERA

Cyber Era been wide culture and social connect has many attacks to understand security measures for this CSI SAKEC in collaboration with Computer Engineering Department had organized a workshop on Attacks and Security in Cyber Era on 1st September 2018. The Speaker of the event was Prof. Saurabh Patil. He covered topics such as demonstration of Linux attacks, Email Spoofing, Flooding Attack, Websploit Attack, Metasploit Attack for Windows System, WIFI-Attack and Android Phone hacking. Dr. Rekha Ramesh appreciated participated for the events and presented token of appreciation to Prof. Saurabh Patil. The coordinators for the event were Prof. Shahzia Sayyad and Prof. Deepshikha Chaturvedi.



## CREATING EFFECTIVE EDUCATIONAL VIDEOS



Recently the education is widespread due to videos and articles accessible through internet. In view to enable teachers create videos for their domains CSI SAKEC along with Computer Engineering Department had organized a hands on session on Creating Effective Educational Videos, as a Pre-Event of CSI Mumbai TechNext India 2019. The speaker was Dr. Yogendra Pal. IITB. Topics covered were software like Open Broadcaster Software (OBS), Openboard, Open shot video editor and Audacity. The goals of the session were to explain the need for different types of educational videos, Select the appropriate type of educational video for a topic, Use presentation software effectively to create presentations for screen casts, Use various software required to create four different types of educational videos, Use Open Shot software to edit educational videos, Setup his/her studio for different types of educational videos, Explain various hardware that can be used to produce educational videos and apply best-practice in MOOC creation and running. Many faculty from different colleges as well as learners from company had joined the session.



## H A N D S   O N   P H P

SAKEC ACM Student Chapter in association with Computer Engineering Department organized a Hands on workshop on PHP on 4th August 2018. The speaker of the event were Prof. Jaya Zalte and Prof. Pradip Mane, who had taken practical on server side programming database connectivity and mini project designing in PHP. The students were benefited with this new technology. The workshop was a huge success and highly appreciated by participating students. The coordinator of the workshop was Prof. Bhakti Sonawane.



## SAKEC CONNECT

SAKEC-ACM in collaboration with Computer Engineering Department has organized “SAKEC-CONNECT” on 29th and 30th March 2019. It was tech competition for undergraduates from any field where they must participate as individuals. Based on the skill sets of individuals, a team of 4 has been formed. It was first time in the history of SAKEC to host an Inter-college Open Hackathon. There were total 46 participants divided into group of four. With every team pushing towards working hard it was the time for the mentors to guide them. Mentor then took rounds analysing their projects, gave them some useful insights. We're fortunate to have Mr. Nishant kumar, Mr. Akshay Pilankar, Mr. Viral Parpar and Mr. Aasim Sayyed to be our mentors who themselves are experts in their domains to guide the participants. Judges for the events were two brilliant young entrepreneurs Mr. Harnesh Shah and Mr. Harsh Vitra. Principal, Dr. Bhavesh Patel expressed his delight on having such an event to be organized for the first time. Our chief guest Mr. Harnesh Shah, who was a successful IT personality for over 25 years, shared his insights on the events. Our other chief guest Mr. Harsh, elaborated on the practical aspects of start-ups.



**Winning Team Receiving Certificate**

## MATLAB

ISTE SAKEC in collaboration with Computer Engineering Department organized a event on MATLAB on August 1, 2018 in Lab 209 and 210 . The speaker for the first half was Prof. Deepti Nikumbh and the speaker for the second half was Prof. Rekha More. The first half concentrated on the basic features of MATLAB, starting MATLAB, using MATLAB, basics functions with syntax, error messages, their corrections, entering multiple statements per line, control statements, array operations, matrix operation. The speaker taught the students and gave them time to solve the problem statements given. The second half session was concentrated on creating graphs using plots tab in MATLAB, 2D and 3D graphs and reading and playing Audio files in MATLAB. Finally the speakers gave the students an idea about the difference between using MATLAB and SCILAB.

The event was concluded by giving saplings and certificates of appreciation to the speakers and event co-ordinator by Prof. Shikha Shrivastava, Coordinator of ISTE SAKEC. Certificate of participation were awarded to the students.



## VISIT TO RAIGAD ZILLA PARISHAD PRATHMIK SCHOOL



The Department had organized CSR event, “Joy of Giving” on 25th October 2018. Many faculty and students interacted with the Zilla Parishad school teachers and students. The school students narrated poems and stories in front of the SAKEC team. SAKEC students played with the school students and made the visit more cheerful. We handed over the gifts to every student which were useful and motivated them for studies. We got the opportunity of giving to the lesser fortunate children and underprivileged sections of the society. This is to make our students responsible citizens of tomorrow by caring and sharing with the institute’s social responsibility.



# HALL OF FAME

## FIRST YEAR



SHENOY ANJALI  
Aggregate : 9.5 CGPA



DHAROD ROHAN  
Aggregate : 9.39 CGPA

## SECOND YEAR



VIDYA ARUMUGAM  
Aggregate : 9.925 CGPA



LIMAYE PRASANNA  
Aggregate : 9.77 CGPA

## HALL OF FAME

### THIRD YEAR



KHANOLKAR AKSHAY  
Aggregate : 9.735 CGPA



PARMAR SHAILY  
Aggregate : 9.45 CGPA

### FINAL YEAR



SURVE DEVESH  
Aggregate : 9.4 CGPA



GAWANDE VIVEK  
Aggregate : 9.39 CGPA

## ACHIEVEMENTS BY STUDENTS

| Sr. no | Name of Student   | Event name  | State/ National/ International Level | Event Date              | Conducted by                           | Achievements  |
|--------|---|---|--------------------------------------|-------------------------|--|---|
| 1      | Bhavin Goswami  | Inter Institutional Inclusive Innovations Centre – i4C’s Smart India Hackathon 2019, 36 Hour nonstop coding Competition | National                             | 02/03/2019 & 03/03/2019 | Government of India                    | Mentor of Winner team at SIRT, Bhopal.              |
| 2      | Rushabh Mehta, Vivek Gawande, Akshay Kumbhar, Devesh Surve, Shreyas Nanaware        | Code vita   | National                             | 2018                    | Tata Consultancy Services (TCS)        | Winner  |
| 3      | Team: Kamchore Milind Thapper, Naitik Kotak, Arushi Shetty                          | Hunar Competition (Entrepreneurship Quest)  | National (Zonal Round)               | 07/12/2018              | iFEEL, Jaro Education                  | Zonal level and qualified for the National          |
| 4      | Team : Polyplus Nihar Mehta, Kusal Shah, Akash Shah                                 | Hunar Competition (Entrepreneurship Quest)  | National (Zonal Round)               | 07/12/2018              | iFEEL, Jaro Education                  | Won Zonal level and qualified for the National      |
| 5      | Team : Polyplus Nihar Mehta Kusal Shah, Akash Shah                                  | Hunar Competition (Entrepreneurship Quest)  | National                             | 24/12/2018              | iFEEL, Jaro Education                  | Won prize for Best TV commercial and won cash prize |
| 6      | Viraj Modi, Jainam Doshi, Rudresh Dongre, Yash Oswal, Nikhil Shetty, Riya Jakhariya | Inter Institutional Inclusive Innovations Centre – i4C’s Smart India Hackathon 2019, 36 Hour nonstop coding Competition | National                             | 02/03/2019 & 03/03/2019 | Ministry of Human Resource Development | Won First Prize for solution Simple complexity      |

## ACHIEVEMENTS BY STUDENTS

| Sr. no | Name of Student  | Event name                                   | State/ National/ International Level | Event Date                     | Conducted by  | Achievements                         |
|--------|--|--|--------------------------------------|--------------------------------|---|--------------------------------------|
| 7      | Vinit Patel,<br>Amey Zope.   | AppMaker<br>Sagacity<br>2018                 | Intercollegiate<br>competition       | 08/09/2018                     | Vivekanand<br>COE, Mum-<br>bai.   | First Posi-<br>tion                  |
| 8      | Akansa Chhatry,<br>Prajakta Salunke  | Hoop the<br>Loop (Girls)                     | Intercollegiate<br>competition       | 15/03/2019                     | Institute of<br>Chemical<br>Technology                                    | First Posi-<br>tion                  |
| 9      | Hiten Chawda   | Database<br>Query Com-<br>petition           | Intercollegiate<br>competition       | 08/09/2018                     | Vivekanand<br>COE,<br>Mumbai.   | Second<br>Position                   |
| 10     | Rushabh Dedhia,<br>Mayank Dand,<br>Aditya Akhave.                                | Technokag-<br>az                             | National                             | 26/02/2019                     | Shah and An-<br>chor Kutchhi<br>Engg. College,<br>Mumbai.                 | Second<br>Position                   |
| 11     | Chinmay Kadam,<br>Vikas Dadhich.   | LOC-Line<br>of Code                          | Intercollegiate<br>competition       | 16/03/2019<br>&<br>17/03/2019  | ACM-<br>Dwarkadas<br>Jivanlal<br>Sanghvi Col-<br>lege of Engi-<br>neering | Second<br>Position<br>(Rs.<br>10000) |
| 12     | Vivek Gawande<br>Devesh Surve  | Inframind<br>Competition                     | National                             | 24/12/2018                     | Tata Consul-<br>tancy Services<br>(TCS) IT In-<br>frastructure            | Reached<br>round 3                   |
| 13     | Aniket Banginwar<br>Kalpita Bhagat<br>Shreyas Narawade                           | SAKEC-<br>CONNECT<br>(Tech com-<br>petition) | Intercollegiate<br>competition       | 29/03/2019<br>&<br>30/03/2019  | ACM-SAKEC   | 1st<br>Second<br>Position            |
| 14     | Yash Shetye<br>Harsh Chauhan<br>Rohit Panchal                                    | Season ball                                  | Intercollegiate                      | 30/01/2019                     | SIES Graduate<br>School of<br>Tech. Mumbai                                | Runner Up                            |
| 15     | Shrey Dedhiya,<br>Akash Bhatt,<br>Parth Gala,<br>Sarvesh Sapale,<br>Parth Parekh | Summit-<br>2018<br>(Foot Ball)               | National                             | 04/09/2018<br>to<br>08/09/2018 | MIT World<br>Peace Univer-<br>sity, Pune                                  | Participa-<br>tion                   |

## ACHIEVEMENTS BY STUDENTS

| Sr. no | Name of Student  | Event name                        | State/ National/ International Level  | Event Date                     | Conducted by  | Achievements       |
|--------|--|-----------------------------------|---------------------------------------|--------------------------------|---|--------------------|
| 16     | Amish Shah,<br>Sagar Gala,<br>Rushabh Vora   | Summit-2018<br>(Table Tennis)     | National                              | 04/09/2018<br>to<br>08/09/2018 | MIT<br>World<br>Peace Uni-<br>versity,<br>Pune                                | Participa-<br>tion |
| 17     | Yash Shetye<br>Harsh Chauhan<br>Rohit Panchal  | Summit-2018<br>(cricket)          | National                              | 04/09/2018<br>to<br>08/09/2018 | MIT<br>World<br>Peace Uni-<br>versity,<br>Pune                                | Participa-<br>tion |
| 18     | Nihar Mehta<br>Kusal Shah<br>Akash Shah<br>Suham Das   | Big Idea<br>SUMMIT & EXPO<br>2018 | National                              | 22/12/2018<br>&<br>23/12/2018  | Shri<br>Kutchhi<br>Bhanushali<br>Seva Samj<br>Trust<br>(SKBSST)               | Participa-<br>tion |
| 19     | Aniket Banginwar<br>Kalpita Bhagat<br>Shreyas Nanaware<br>Ekantika Singh                                 | Avishkar                          | District                              | 23/12/2018                     | Ramrao<br>Adik Insti-<br>tute of<br>Technolo-<br>gy, Nerul,<br>Navi<br>Mumbai | Participa-<br>tion |
| 20     | Avnit Singh<br>Shivam Chothani<br>Tejas Dedhiya<br>Pranav Shrivastav<br>Vrushabh Kothari<br>Jashil Mehta | Basket Ball                       | Intercolle-<br>giate com-<br>petition | 7/01/2019<br>to<br>9/01/2019   | K. J. So-<br>maiya Col-<br>lege of En-<br>gineering                           | Participa-<br>tion |
| 21     | Avnit Singh<br>Tejas Dedhiya<br>Pranav Shrivasta   | Basket Ball                       | Intercolle-<br>giate com-<br>petition | 8/02/2019                      | Vidya-<br>lankar In-<br>stitute of<br>technolo-<br>gy, Mum-<br>bai            | Participa-<br>tion |

## ACHIEVEMENTS BY STUDENTS

| Sr. no | Name of Student   | Event name                   | State/ National/ International Level | Event Date                     | Conducted by  | Achievements              |
|--------|---|------------------------------|--------------------------------------|--------------------------------|---|---------------------------|
| 22     | Urvi Shah,<br>Neha Gawade   | SPIRIT                       | State                                | 19/02/2019                     | Sardar Patel College of Engineering, Mumbai         | Participation             |
| 23     | Vivek Shah<br>Saouranh Dubey<br>Prathmesh Punde   | Technokag-az                 | National                             | 26/02/2019                     | Shah and Anchor Kutchhi Engineering College, Mumbai | Participation             |
| 24     | Avnit Singh<br>Shivam Chothani<br>Tejas Dedhiya<br>Pranav Shrivastav                    | Basketball                   | Intercollegiate competition          | 13/03/2019<br>To<br>16/03/2019 | Institute of Chemical Technology, Mumbai            | Participation             |
| 25     | Akansha Chhatry<br>Prajakta Solunke<br>Shaili Shah                                      | Basketball                   | Intercollegiate competition          | 14/03/2019                     | Institute of Chemical Technology, Mumbai            | Participation             |
| 26     | Urvi Shah   | Table Tennis                 | Intercollegiate competition          | 15/03/2019                     | Institute of Chemical Technology, Mumbai            | Participation             |
| 27     | Avnit Singh<br>Shivam Chothani<br>Pranav Shrivastav<br>Vrushabh Kothari<br>Jashil Mehta | Basket ball                  | Intercollegiate competition          | 26/03/2019<br>&<br>27/03/2019  | M. H. Saboo Siddik College of Engineering, Mumbai   | Participation             |
| 28     | Rushabh Dedhiya<br>Mayank Dand<br>Aditya Akhave   | Project Competition -DJASCII | State                                | 30/03/2019                     | Dwarkadas J. Sanghvi College of Engineering, Mumbai | Participation             |
| 29     | Hiten Chawda<br>Vinit Patel<br>Prasanna Limaye<br>Nikki Pokharna                        | Hackathon                    | International                        | 5/04/2019                      | India-Europe ICT Standard Collaboration             | Selection in Grand Finale |

## ACHIEVEMENTS BY STUDENTS

| Sr. No | Name of Student   | Winner/ Participation | Event name            | Conducted by                                       | Event date/ year |
|--------|-------------------|-----------------------|-----------------------|--|------------------|
| 1      | Akansha Chhatry   | Participated          | Basketball            | Sportssaga 2019, Institute of Chemical Technology  | 2019             |
| 2      | Urvi Shah         | Participated          | Table Tennis          | Sportssaga 2019, Institute of Chemical Technology  | 2019             |
| 3      | Akansha Chhatry   | WON 1st position      | Hoop the loop (girls) | Sportssaga 2019, Institute of Chemical Technology  | 2019             |
| 4      | Urvi Shah         | Participated          | Throw Ball            | Spirit 2019, Sardar Patel College of Engineering   | 2019             |
| 5      | Urvi Shah         | WON 1st position      | Table Tennis          | Spoorthi 2018, Sardar Patel College of Engineering | 2018             |
| 6      | Dhanashree Pandit | WON 2nd position      | Chess                 | Olympus 2019 SAKEC                                 | 16/03/2019       |
| 7      | Parth Pandit      | WON 1st position      | Table Tennis          | Olympus 2019 SAKEC                                 | 16/03/2019       |



## PRODUCTS DEVELOPED BY STUDENTS

| Sr. No | Name of the Student            | Title of the Product   | Description   |
|--------|--------------------------------|--|---|
| 1      | Vivek Gawande                  | Vivek's Blog <a href="http://vivekga-wande.herokuapp.com/">http://vivekga-wande.herokuapp.com/</a> | Blog to share his journey of becoming a software developer and various interesting technologies he comes across   |
| 2      | Tej Karani                     | Pockets Hub  | A clothing store website with product details and contact details   |
| 3      | Bhavya Haria, Manan Bhanushali | IEEE SAKEC App   | This app is developed for student branch as to celebrate IEEE Day 2018.   |
| 4      | AmeyKamate                     | File sharing App.NET   | This file transfer application can be used to transfer files and folders in LAN. It is a desktop application. It can be used to transfer folders there is no need for zipping of the folder |
| 5      | Ashish Ghadigaonkar            | Rine   | E-Commerce app for Nature Essential Food Pvt Ltd  |
| 6      | Ashish Ghadigaonkar            | Mech2it  | ERP system  |
| 7      | Ashish Ghadigaonkar            | Voting System  | Android app Online voting system  |
| 8      | Ashish Ghadigaonkar            | Croma-Browser  | Browser that can clear all browsing data on exit at apk of only 700-800 kb.   |
| 9      | Ashish Ghadigaonkar            | <a href="https://www.mu.edu.co.in">https://www.mu.edu.co.in</a>                                    | Educational website   |
| 10     | Ashish Ghadigaonkar            | Data Structures app  | Data Structures app for learn code online.in: Displaying content using REST APIs.   |
| 11     | Kushal Gogri                   | Anime info app   | Cartoons-TV serials app   |
| 12     | Aadesh Khale                   | Space Infinity - Android game  | To improve your concentration power, in a fun way. Dodge barriers while you proceed within the unpredictable universe of Space Infinity and travel as far as possible                       |
| 13     | Soni harsh Chiman              | Mobile App - Todo task   | Developed a mobile App.   |
| 14     | Rushi Shah                     | Website – Car Desk   | Developed the website using Word Press.   |
| 15     | Rishabh Kothari                | Website - Sync Studios.  | Developed the website using Word Press.   |
| 16     | Femin Dharamshi                | Codify   | Codify is an App where Computer/IT Engineering students can find codes/programs and video lessons related to their subjects   |

## P A P E R P U B L I C A T I O N

| Sr. No | Title of the Paper   | Name of the Author  | Title of the Journal  | Year of Publication |
|--------|--|---|---|---------------------|
| 1      | Dense Stereo Matching Based on Multi-objective Fitness Function –A Genetic Algorithm Optimization Approach for Stereo Correspondence | Manimala Mahato, Shirishkumar Gedam, Jyoti Joglekar, Krishna Mohan Buddhiraju | IEEE Transaction, Transaction on Geoscience and Remote Sensing                                    | June 2019           |
| 2      | Smart Irrigation System and Crop Prediction  | Akshay Narwade, Sumit Nayak, Ankita Potdar, Rajkumar Yadav, Karuna Borhade    | International Research Journal of Engineering and Technology                                      | April 2019          |
| 3      | Farmer Customer Relationship Management System   | Apoorv Bhiwandkar, Sneha Bhalekar, Parth Gala, Parth Parekh, Jaya Zalte       | International Journal of Research in Engineering, Science and Management                          | April-2019          |
| 4      | Road Accident Prediction   | Monika Kanojiya, Vipul Rana, Deepak Parmar, Hemant Joshi, Pradnya Jadhav      | International Researnal Journal of Engineering and Technology                                     | March 2019          |
| 5      | Robust Fundamental Matrix Estimation Using Genetic Algorithm Based Approach With Multi-Objective Fitness Function For Stereo Images  | Manimala Mahato, Shirishkumar Gedam   | In Proceedings of Asian Conference on Remote Sensing, Kuala Lumpur, Malaysia                      | 2018                |
| 6      | Particle Swarm Optimization Based Approach To Estimate Epipolar Geometry For Remotely Sensed Stereo Images                           | Manimala Mahato, Shirishkumar Gedam   | In Proceedings of Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-5, Dehradun, India. | 2018.               |
| 7      | Online Printing Access for Business Utility using Android  | Devika Galia, Ankita Babshetye, Dhanashri Bagul, Kajal Sodha, Jaya Zalte      | IJSRD - International Journal for Scientific Research & Development                               | 2019                |
| 8      | Augmented Reality Game Development using Unity3D   | Deep Karia, Abhishek Shah, Sharan Vora, Dr. Bhavesh Patel                     | JETIR   | 2019                |

## ACHIEVEMENTS BY FACULTY

| Sr. No | Name of Faculty                             | Event / Title   | Conducted By                          |
|--------|---|---|---------------------------------------|
| 1      | Monika Kanojiya                             | Attended STTP for 6 days on Artificial Intelligence, Machine and Deep Learning: Hands On" 24/06/2019 to 29/6/2019 | KJSIEIT, Sion                         |
| 2      | Tina Maru,<br>Sarika Rane,<br>Dipti Mukadam | Certificate course on Python Workshop by IITB on 22/06/2019   | Remote Centre - SAKEC                 |
| 3      | Pradeep Mane                                | Developed Departmental Information Management System  | Computer Engineering Department SAKEC |

### NPTEL Achievements

| Sr. No. | Name of faculty       | Subject   | Achievement            |
|---------|-----------------------|---|------------------------|
| 1       | Manimala Mahato       | Deep Learning                                       | Elite+gold             |
| 2       | Rekha Ramesh          | Deep Learning                                       | Elite                  |
| 3       | Milind Khairnar       | Innovation, Business Models and Entrepreneurship    | Elite                  |
| 4       | Vaishali Hirlekar     | Introduction to Internet of Things                  | Elite                  |
| 5       | Deepti Pawar          | Stress Management                                   | Elite                  |
| 6       | Milind Khairnar       | E-business  | Successfully completed |
| 7       | Pallavi Deshmane      | Switching Circuits and Logic Design                 | Successfully completed |
| 8       | Deepshikha Chaturvedi | Programming in Java                                 | Elite+gold             |
| 9       | Dhanashree Thakur     | Introduction to Automata, Languages and Computation | Elite+Silver           |

**Without continual growth and progress, such words as improvement, achievement, and success have no meaning.**

BENJAMIN FRANKLIN

## NPTEL STATISTICS

Computer Engineering Department is a part of local chapter for NPTEL (National Program on Technology Enhanced Learning) which is a joint initiative of the IITs and IISc. The goal of a Local Chapter is to be a local link between students/faculty in the institution and SWAYAM-NPTEL Through this initiative, they offer online courses and certification in various topics For year 2018-19 various courses related to computer science, mathematics, soft skills, multidisciplinary categories etc. ,have offered from NPTEL .

In first half (July 2018-October 2018) 126 candidates including students and faculties were registered and for second half (January 2019-April 2019) 167 candidates registered from computer engineering department .

In first half 17 candidates have successfully completed the courses. Out of which 01 have got Elite +Gold, 12 have got elite and 5 have successfully completed the course . In second half 04 candidates have successfully completed the courses. Out of which 2 faculty candidates got Elite +Gold and Elite +Silver respectively.

One of our student Nikhil Dinesh Shetty has secured place in Topper of 5% category for “ Introduction to Machine Learning course”.

Our faculty member Dr. Manimala Mahato secured Elite +gold also she became one of Topper of 5% for “ Introduction to Machine Learning course”.

Faculties who registered for courses played an important role of subject mentors for students. The ratio of mentors: student is 1:50.They Motivate students on assignment submission/ exam registration and track progress of students / mentees.



## S P O K E N T U T O R I A L S T A T I S T I C S

### Information of students Passing Spoken Tutorial in 2018-2019

| Class | Tutorial Topic            | Date of Exam | Appeared | Pass | Passing % |
|-------|---------------------------|--------------|----------|------|-----------|
| FE    | C language                | 20/2/2019    | 118      | 98   | 83.05 %   |
| SE    | Python                    | 18/2/2019    | 185      | 150  | 81.08 %   |
| TE    | PHP-MySQL                 | 30/8/2018    | 212      | 208  | 98.11 %   |
| BE    | Java Business Application | 27/8/2018    | 187      | 161  | 86.09 %   |

### Toppers in Spoken Tutorial 2018-2019

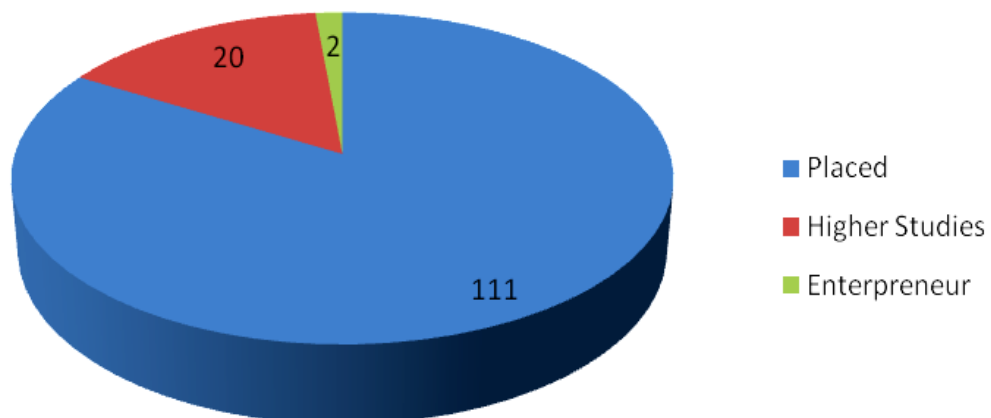
| Sr. No. | Name of student  | Topic                     |
|---------|------------------|---------------------------|
| 1       | RUSHABH DEDHIA   | Java Business Application |
| 2       | ANIKET BANGINWAR | Java Business Application |
| 3       | YAKSH SHAH       | PHP-MySQL                 |
| 4       | RUCHA SAWANT     | PHP-MySQL                 |
| 5       | KARNA SHAH       | Python                    |
| 6       | HARSHIL SANGHAVI | C language                |
| 7       | RUSHI SHAH       | C language                |
| 8       | TANAY JHAWAR     | C language                |
| 9       | YOUSHA GHARPURE  | C language                |

**THE EXPERT IN ANYTHING WAS  
ONCE A BEGINNER !**

## PLACEMENTS AND HIGHER STUDIES

- \* 84 companies in the campus
- \* 111 total placed students from computer
- \* Highest package of 12.02 LPA in Jaro Topscholar Pvt. Ltd. (Mr. Jinit jain)
- \* Highest package with Technical profile with 7 LPA in Tata Consultancy Services ( Mr. Vivek Gawande)
- \* 4 of our students who were Codevita winners ( Mr. Vivek Gawande, Mr. Devesh Surve, Mr. Rushabh Mehta, Mr. Shreyas Nanaware) received Direct Recruitment offer by TCS.
- \* 20 students secured admission for higher studies in reputed University's
  - \* United States 10
  - \* Australia 5
  - \* Canada 2
  - \* Ireland 1
  - \* Bits Pilani 1
  - \* UoM 1
- \* Our student Mr. Shrikant Naidu is awarded with 10th AEGIS GRAHAM BELL AWARD NATIONAL TALENT HUNT, an initiative by AEGIS and supported by NITI Aayog, Government of India There were more than 20,000 participation PAN INDIA for awards. Out of that 7000 were interviewed by the prestigious Jury members and ONLY 21 are graced with the award, Our Mr. Shrikant is one of amongst the Final 21 recipients.

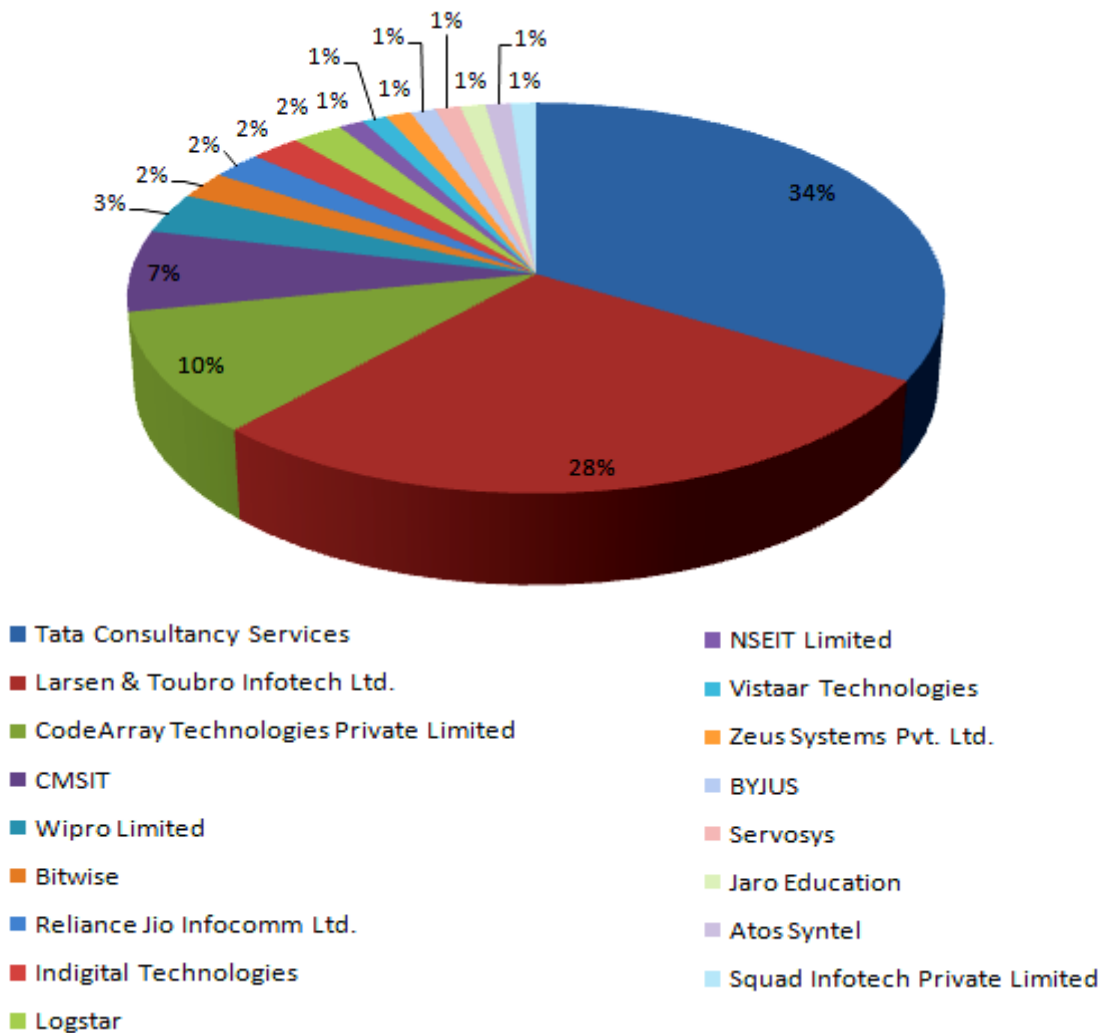
|  |             |
|--|-------------|
| <b>Oncampus Placed</b>                             | <b>89</b>   |
| <b>Off Campus placed</b>                           | <b>22*</b>  |
| <b>Total placed</b>                                | <b>111*</b> |
| <b>Number of students opted for higher studies</b> | <b>20</b>   |
| <b>No. Of students turned Entrepreneur</b>         | <b>02</b>   |



## PLACEMENTS AND HIGHER STUDIES

| Sr. No. | Name of the Company                    | No. of On campus placed students |
|---------|--|----------------------------------|
| 1       | Tata Consultancy Services              | 30                               |
| 2       | Larsen & Toubro Infotech Ltd.          | 25                               |
| 3       | CodeArray Technologies Private Limited | 9                                |
| 4       | CMSIT                                  | 6                                |
| 5       | Wipro Limited                          | 3                                |
| 6       | Bitwise                                | 2                                |
| 7       | Reliance Jio Infocomm Ltd.             | 2                                |
| 8       | Indigital Technologies                 | 2                                |

| Sr. No. | Name of the Company            | No. of On campus placed students |
|---------|--------------------------------|----------------------------------|
| 9       | Logstar                        | 2                                |
| 10      | NSEIT Limited                  | 1                                |
| 11      | Vistaar Technologies           | 1                                |
| 12      | Zeus Systems Pvt. Ltd.         | 1                                |
| 13      | BYJUS                          | 1                                |
| 14      | Servosys                       | 1                                |
| 15      | Jaro Education                 | 1                                |
| 16      | Atos Syntel                    | 1                                |
| 17      | Squad Infotech Private Limited | 1                                |



# NON-TECHNICAL ARTICLES

**DIWALI  
RANGOLI**

**SIDDHI  
KHANVILKAR  
SE-4**



## NON-TECHNICAL ARTICLES

SAKEC ने कराई राजस्थान की सैर,  
 मुंबई से चली छुक छुक करती रेल,  
 रणथम्बोर में की थी एंट्री,  
 नेचर की थी गज़ब सीनरी,  
 जंगल में उड़ते थे पंछी और तोते,  
 Wildlife में देख चीता, उड़ गए हमारे तोते,  
 काले गोरे भेरू का मेल देखा,  
 एक ही मंदिर में बैठे देखा,  
 चमत्कारी जैन मंदिर देखा,  
 अहिंसा का सन्देश देखा |

जयपुर में चौकी धानी से शुरू हुआ था स्वागत,  
 विभिन्न व्यंजनों से दिल हुआ था पागल,  
 लहर फुटवियर में देखी शू मेकिंग,  
 वहीं बापू बाजार से करी थी भारी शॉपिंग,  
 जंतर मंतर में थी तरह तरह की आकृति,  
 जो सूर्य की गिरती किरणों से,  
 वक्रत और राशियों का थी हाल बताती,  
 तिलोनिआ में थी बेयरफुट यूनिवर्सिटी,  
 कला और कौशल से भरी थी सबकी बातें |



चित्तौड़ का किला देखा,  
 भगवती का मंदिर देखा  
 पदमिनी की आन देखी  
 राजपूतों की शान देखी |

उदयपुर की बात निराली  
 हर तरफ थी लेक और हरियाली,  
 पानी में तैरता जग मंदिर देखा  
 शिशोदिया वंश का City Palace देखा,  
 महाराणा प्रताप की अद्भुत शौर्य कहानी  
 कवि चंदबरदाई की थी मुँह जुबानी |

जब चेतक ने की थी हवा से बातें,  
 दुश्मनों की रुक जाती थी सासें,  
 जहाँ रानियाँ करती थी कैट वाक,  
 वो सहेलियों की बाड़ी देखी |

अब फालना से वापसी की थी तैयारी,  
 जैसे मीठी यादों की बारात चली,  
 आगे भी जो होगा सबका साथ,  
 इसी तरह IV जाएंगे हर साल |



# NON-TECHNICAL ARTICLES

PAINTINGS BY MUGDHA BASAK SE-4



## NON-TECHNICAL ARTICLES

### Quarantine

Quarantine , Quarantine this is the time to win,  
Sharp your skills while others are making time a bin.  
Quarantine , Quarantine this is the time to complete your backlog,  
So that you don't lost your self in this fog.  
Quarantine , Quarantine this is your chance to be a solider,  
Don't waste it by being a risk holder.  
Quarantine, Quarantine this is going to end soon,  
As long as you make it a boon.

### Study

We do it all the time,  
Trying to make everything mine .  
If we stop doing it,  
We are digging ourselves in a pit .  
It's not define as writing we read,  
It's the experience we get indeed.

### Insecure Person

I am a insecure person,  
Who got frozen.  
Tries to raise his voice,  
But is confused between his choice .  
Things gets complicated by his own matter,  
Because he don't want himself to shatter.  
Shares his thoughts with only them,  
With whom he feel free to talk.  
Insecurity only comes when there is no exchange of thoughts,  
So it's better to empty yourself by speaking your mind out .

## RESULT ANALYSIS

### Result Analysis of May 2019

| Year          | No. of Students Appeared | No. of Students Passed | Passing Percentage |
|---------------|--------------------------|------------------------|--------------------|
| SE (SEM-IV)   | 214                      | 133                    | 62.14%             |
| TE (SEM-VI)   | 212                      | 188                    | 88.68%             |
| BE (SEM-VIII) | 218                      | 214                    | 98.16%             |

### Result Analysis of Dec 2018

| Year         | No. of Students Appeared | No. of Students Passed | Passing Percentage |
|--------------|--------------------------|------------------------|--------------------|
| SE (SEM-III) | 215                      | 134                    | 62.33%             |
| TE (SEM-V)   | 210                      | 184                    | 87.62%             |
| BE (SEM-VII) | 218                      | 215                    | 98.62%             |



## PUBLICATION COMMITTEE

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**COORDINATOR - PROF. SHAHZIA SAYYAD**

**CONTENT ORGANIZER - PROF. TINA MARU**



**CHIEF EDITOR  
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**CONTENT DESIGNER  
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**CONTENT DESIGNER  
SIDDDHI KHANVILKAR  
SE - 4**



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