

# coffee & CODE;

an initiative by **Department of Computer Engineering**

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## Computer Department's Vision

To be recognized globally, as a department which provides quality technical education that eventually caters to helping and serving the community.

## Computer Department's Mission

- 1) To develop human resources with sound knowledge in theory and practical of computer science and engineering.
- 2) To motivate the students to solve real world problems to help the society grow.
- 3) To provide a learning ambience to enhance innovations, team spirit and leadership qualities for students.



**Stan Lee**  
Comic Book Writer,  
Author, Editor

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*With great power comes great responsibility.*



## Focus on Teaching Assistants (T.A) and Research Assistants (R.A)

The department of computer engineering has come up with the concept of Teaching Assistants and Research Assistants right from the pre-final , final year of Engineering. This will not only help them boost their confidence in their respective domain of interest, they will also develop a liking for their subject of interest for pursuing their higher studies. The details of the TA's and RA's being assigned to various faculties are as follows.

### Teaching Assistants (T.A)

Sr.No	Faculty	Name of Student	Domain	No. of Sessions	Topics Covered
1	Mrs. Hezal Lopes	Jill Kakadiya	TCS	01	Conducted session on "Jflap" tool
		Palak Barot	TCS Programming	01	
2	Mrs. Vishakha Shelke	Niti Patel	Artificial Intelligence	01	Conducted Prolog Programming Session
3	Ms. Rucha Pathari	Nikunj Patel	Object Oriented Programming	01	Discussion about conducting recent IDE in market is done
4	Mr. Sridhar Iyer	Kunal Rajput	Cyber Security	01	Introduction of Elliptic Curve Cryptography
5	Mrs. Ekta Upadhyay	Jeet Patel	Image Processing	03	1) Virtual lab session on Image Segmentation 2) Virtual Lab session on Region Growing 3) Color Models
6	Mrs.Kanchan Dabre	Bharadwaj Jani	Soft Computing	03	1)Virtual lab on Soft Computing Perceptron Learning 2) Virtual Lab on Genetic Algorithm 3) Virtual Lab on Fuzzy Controller
7	Mr. John Kenny	Akash Bhimani	Web Development	01	Discussed bootstrap implementation with supervisor
8	Mrs. Silviya D'monte	Amit Gupta	Microprocessor	01	Conducted lab session on Study of pentium 4 Motherboard
9	Mr. Pranit Gaikwad	Hrishikesh Gadkari	DS with Python	02	Discussed about implementation of DS programs using Python.
		Varun Nair	SE/Data Science	02	Discussed about improving Mining Algorithm Efficiency
10	Mr. Vikas More	Mithilesh Gholam	Machine Learning	01	Review of Literature Survey
11	Mr. Aniket Kore	Mann Bajaria	Virtual Reality and AI	01	Idea discussed and review of Literature survey suggested.

### Research Assistants (R.A)

Sr.No	Faculty	Name of Student	Research Domain	Status of Research
1	Mrs. Hezal Lopes	Ashutosh Jena	Text analysis Sentiment Analysis	Literature Review
2	Mrs .Vishakha Shelke	Sandeep Suresh Kumar	Project Evaluation using Rubrics	30% project is implemented
3	Ms. Rucha Pathari	Tanveer	Augmented Reality App (Marker and Markerless Method)	Literature Review
4	Mr. Sridhar Iyer	Sushil Kalsekar	Quantum Cryptography	Literature Review
5	Mrs. Ekta Upadhyay	Robin Patoliya	Digital Image Forensics Passive forensics	Literature Review
6	Mr. John Kenny	Kuldeep Patolia	Machine Learning, Disease detection	Literature Review
7	Mrs. Sharvari Patil	Nikita Parekh	Blockchain Technology	Literature Review
8	Mr. Chinmay Raut	Dishank Sanghavi	Blockchain Technology	Literature Review

# Departmental Achievements & Activities

## Bandra Hackathon - Thadomal Shahani Engineering College

As part of technical club first competition students have participated in hackathon organised by TSEC, Bandra. Total 60 teams from various institutions have participated in the competition. Following are the details of the competition

**Event Name :** TSEC HACKATHON 2018

**Date :** 21st & 22nd September 2018

**Venue :** Thadomal Shahani Engineering College, Bandra(W)

**Type :** 30 hours coding competition

**Team 1 :** (Secured 4th Place)

Aditya Gosalia –BE COMP A

Sagar Mistry–BE COMP A

Raj Shah–SE COMP A

**Team 2 :** (Secured 8th Place)

Dhairya Bhatt–BE COMP A

Vikas Pandey–SE COMP B

Rushabh Mehta–SE COMP A

## Gandhinagar Hackathon

As part of technical club Activity students have participated in hackathon organised by Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar. Details of event are as follows:

**Event Name :** Tic-Tech-Toe'18

**Date:** 5th to 7th October 2018

**Venue :** Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar.

**Type :** 30 hours coding competition

**Total no. of students participated:** 19

**Team 1 :**

1. Sagar Mistry- BECOMPS A
2. Aditya Gosaliya-BECOMPS A
3. Yash Kuvawala-BECOMPS A
4. Keyu Jain-SECOMPS A

**Team 2 :**

1. Dhairya Bhatt-TECOMPS A
2. Anushri Shetty-SECOMPS A
3. Vikas Pandey-SECOMPS B
4. Aakash Bhimani-TECOMPS A
5. Sandeep Kumar-TECOMPS A

**Team 3 : (Shortlisted in top 10 team for presentation)**

1. Amit Luhar-SECOMPS A
2. Keyur Babariya-SECOMPS A
3. Shaurya Gulati-TECOMPS A
4. Utsav Chaudhary-SECOMPS A
5. Khyati Desai-SECOMPS A

**Team 4 :**

1. Neha Singh -SECOMPS B
2. Bhatar Nisar-SECOMPS A
3. Akhil Thakkar-SECOMPS B
4. Khush Vaishanani
5. Rushabh Mehta-SECOMPS A

In these 30 hours of brainstorming, all the designers, thinkers, programmers and developers came together to create WEB or MOBILE applications which might pioneer in the near future or are extended versions of the already ruling notions in the appmarket. Total 35 teams from various institutions have participated in the competition.



## Departmental Achievements & Activities(Cont...)



Fig: Gandhinagar Hackathon

### Workshop on “Technical Report writing in Latex”

One of our faculty , Mrs. Vishakha Shelke was invited to Karmaveer Bhaurao Patil College of Engineering, Satara to conduct a workshop on “ Technical Report Writing in Latex” on 1st and 2nd October, 2018. Also, her Latex Submission has been accepted for Stage 0 of “Create Content - Tutorial of eYantra IIT Bombay” and eligible for Stage 1 of Create Content - Tutorial



Fig: Mrs. Vishakha Shelke during her workshop on “Technical Report Writing in Latex

## Workshops Scheduled

### *STTP on “Data Analytics with Machine Learning & Deep Learning”*

The Short Term Training Program(STTP) aims at providing a forum for UG/PG level teachers of various technical institutions of the country as well as the technical researchers and students for upgrading their knowledge on recent advances and trends in the field of Data Analytics with Machine Learning & Deep Learning.

#### **Topics to be covered:**

Basics of Python and Ruby Programming , Introduction to Machine Learning , Supervised and Unsupervised Learning, Linear Regression with One Variable , Linear Algebra Review , Linear Regression with Multiple Variables , Vectorization , Logistic Regression , Regularization , K Means, PCA, Anomaly detection , Data Analysis with Python , Machine Learning with Python - I , Machine Learning with Python - II , Machine Learning Research Topics , Deep Learning

#### **Objective:**

The STTP is designed in such a way that it will enlighten the participant in both data extraction and analysis with machine learning. The main objective is to provide opportunity for students and faculty to understand and expand the knowledge in Data Analytics using Python for further research.

#### **Who must attend?**

The STTP is open to all the teachers of AICTE/UGC Approved engineering colleges, science colleges, polytechnics, research scholars and undergraduate students belonging to various domains.

**Scheduled on :** 17th December, 2018 to 21st December, 2018

### *2 Days workshop on “Ethical Hacking and Cyber Security”*

This immense 2-days workshop will groom the students with the fundamentals of Ethical Hacking. A competition will be conducted at the end of the workshop. Topper of this competition will be getting a chance of internship to work with our professional team of ethical hackers and security experts or a full fledged course of “Certified Information Security and Ethical Hacker (CISEH)” worth Rs. 14000 FREE.

#### **Why Ethical Hacking and Cyber Security ?**

With the increasing use of the internet and concerns about its security, especially when it comes to things like consumer information or private details, there is considerable need for computer experts to work in ethical hacking field. Organizations today recognize the strong need for information security; hence an ethical hacker or security expert is usually employed by companies to penetrate into networks and/or computer systems, using the same methods as a hacker, for the purpose of finding and fixing network and computer security vulnerabilities.



## Upcoming Add On Courses

# Universal College of Engineering

(Permanently Unaided | Approved by AICTE, DTE & Affiliated to University of Mumbai)

**Gujarati Linguistic Minority Institution**

In association with Quick Heal Academy and SYCTECH Learning Solutions

Department of Computer Engineering offers the following add-on courses

**Industry & Job  
Oriented**

**At concessional  
rates**

	Name of the Course
2nd Year Engineering	1) QHA Cyber Security Professional
3rd Year Engineering	2) QHA Cyber Security Forensics Part-I
4th Year Engineering	3) QHA Cyber Security Forensics Part-II

Duration of each program: 40 hours

**Courses will be conducted by Industry Expert**

To resolve any queries / for additional information please contact during college hours

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## Accredited with "B+" grade by NAAC

We are happy and proud to inform you that the institute has been awarded "B+" grade in the 1st cycle by National Assessment and Accreditation Council (NAAC) for 5 years.

We extend our sincere thanks to the management, students, faculty members and all the stake holders for their guidance, support and co-operation.

