

ST. FRANCIS INSTITUTE OF TECHNOLOGY
(ENGINEERING COLLEGE)

Borivali west, Mumbai

www.sfitengg.org

BITS-N-BYTES
JANUARY TO JUNE 2018
(For Internal Circulation Only)



St. Francis Institute of Technology

(Engineering College) – Since 1999

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All B.E. courses Permanently Affiliated to University of Mumbai



Existing B.E. Courses

- Information Technology – 120 seats (100% pass – B.E. 2017)
- Computer Engineering – 120 seats (98.65% pass – B.E. 2017)
- Electronics & Telecommunication Engineering – 120 seats (94.84% pass – B.E. 2017)

Among top 3 Engineering colleges in the University of Mumbai

Existing M.E. / Ph.D. Courses

- Computer Engineering
- Electronics & Telecommunication Engineering

B.E. Courses from Academic Year 2018 - 19

Starting
New

Mechanical Engineering – 60 seats

Electrical Engineering – 60 seats

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Website: www.sfitengg.org

DEPARTMENT OF INFORMATION TECHNOLOGY

A graphic illustration on a blue background. At the top, three black graduation caps with gold tassels are shown in various orientations. Below them, the word "Congratulations" is written in a large, yellow, cursive font. To the right of the text are several yellow stars of varying sizes. Below the stars is a yellow trophy cup with the word "Canva" written on it in a cursive font. At the bottom of the graphic, four orange hands are shown in various positions, as if clapping or celebrating.

Congratulations

FOR 100% RESULT

Department of I.T received a trophy
for achieving 100% Final year (B.E.)
results for
Academic Year 2016-17.



Department of Information Technology



Dr. Prachi Raut's topic for research was
COVERAGE AND CONNECTIVITY MODELLING IN MOLECULAR COMMUNICATION BASED NANO MACHINE NETWORKS under the guidance of **Dr. NISHA SARWADE** from **VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE**

IT for Society Colloquim on 19-20 January, 2018

INFT department of SFIT successfully conducted I.T for society: Colloquium on 19th and 20th January, 2018.

It was convened by Dr. Joanne Gomes with coordinators Ms. Minal Lopes and Ms. Shree Jaswal. This year's Colloquium theme was I.T. in waste management, disaster management and agriculture. Being a state level event there were around 400+ participants consisting of S.E., T.E. and B.E. students of SFIT as well as other colleges.

On 19th January the inauguration of Colloquium was done at the hands of Mr. Ravindra Dwivedi, Divisional General Manager - Mott MacDonald. Colloquium comprised of workshops and project competition for SE/TE students along with poster competition for BE students.

The workshops for SE/TE students were organized on recent topics like 'Ethical hacking', 'Augmented Reality' and 'Internet of things' for which industry experts from Prako -

Technocrat and Techcryptors Were invited. There was an overwhelming participation of 300 odd students for the workshops.

There were some very impressive projects showcased by SE/TE students in the project competition based on the colloquium theme where some participants were from other colleges as well. Lot of enthusiasm and energy was seen during the BE poster competition where they presented their BE projects beautifully through posters. The posters were evaluated by experts from SFIT as well as from companies like Dell EMC, Just Dial, L&T Infotech, NeoSoft Technologies etc.

The Valedictory function was held on Saturday, 20 January 2018 where the Chief Guest, Mr. Kiran Giri, Manager-Systems Engineer from Dell EMC gave a very inspiring speech to all present. The Chief Guest handed over prizes for poster and project competition winners.

At the outset, the colloquium was a big success and enriching experience for the participants.

Poster Competition Winners-BE

Prize	Poster No. and Title	Group Members, Class, College
1 st	B_35 Energy meter reading through IOT	Utsav Shah Clive Rodrigues Kaushal Sharma Viral Shah, BE IT B, SFIT
2 nd Prize (Sponsored by Lalwani Estate & Realtors Pvt. Ltd.)	E_02 Cover song identification	Shyamsunder Gupta Dhikesh Karuvankandy Shreyas Menon Manoj Molankar BE EXTC, SFIT
3 rd	B_36 Smart Towing Service	Rahul Valder Tarun Yadav Akash Shukla BE IT B , SFIT

Poster Competition Winners-SE/TE

Prize	Poster No. and Title	Group Members, Class, College
1 st	P_09 Pibot	Dheeraj Kulkarni, Tanmay Gujar, Madhura Dumbre, Mohit Patil Fr. C.R.C.E, Vashi
2 nd	P_04 Child care portal	Neha Borulkar, Joyce Chettiar, Godwin Mappilaparambil Yash Malhotra TE IT A, SFIT
3 rd	P_03 Smart Dustbin	Jitendra Purohit, Aaditya Bagwe, Rishabh Mehta, Ojaswini Mangaonkar TE IT A, SFIT

SEED IT IDOL Competition

Date: 21st February 2018

SEED Infotech Ltd. Conducted SEED IT Idol competition in department of Information Technology on 21/02/2018 i.e. Wednesday at 3:00 pm. Mr. Umesh Vishwakarma(Marketing Executive, SEED Infotech Ltd.) along with Ms. Prajyoti D'silva(Assistant Professor) under the guidance of Dr. Joanne Gomes, conducted first round of the competition for SE and TE students in their respective classrooms. Being a state level event there were around 250+ participants from the department. Details about the competition and its execution/selection process are as follows:

1. Round first was a pen paper test on C programming and computer fundamentals
 - a. 30 minutes test having 30 objective type questions
2. Selected students will be appearing for the second round which will be again a pen paper test having 60 objective type questions to be solved in 45 minutes.
3. From the second round 10 participants will be selected for the third and final round which will be conducted on stage during final event through a specially designed software.
4. Final round: Each participant will be asked max 10 questions with the help of the special software and based on marks. Final Three 3 winners will be declared.

Take away for participants and prize distribution ceremony

A) First three winners

a. Winner – SEED IT Idol Latest smart Phone b. 1st Runner Up Wi-Fi Router

c. 2nd Runner Up 1 TB Hard disk B) Other Attractive Prizes at various levels include - Certificates, Discount Vouchers, Branded T – shirts, Branded Sacks, Trophies & Medals. After the first round, three students of the department were shortlisted from 17000 students all over Mumbai for 2nd round. Further details will be communicated to them shortly.

Project Orientation for TE students

As a part of Academic Activity of the IT Department, Orientation Programme on Project selection and Development was organized on 15 February 2018 for Third year students in Assembly Hall The major objective of the programme was to make students aware of Final Project policy and procedure.

Ms. Amrita Mathur (Project Coordinator, IT Department) introduced students with the objective of doing project and expected outcomes of the Project as a course in final year engineering. She also introduced the process of selection and deploying the Final year project in given tenure of time. Students were acquainted with various domains in which they can select their projects.

Dr. Joanne Gomes (HOD, IT Department) further addressed the students and explained them the way of writing project proposal. She also gave some examples on how to define problem statement to writing a project proposal.

Event Date: **15 February 2018**

Resource Persons: Dr. Joanne Gomes, Ms. Amrita Mathur

R&D Lecture on “Quantum Cryptography”

Cryptography is considered as a strong backbone of today’s secure communication due to its computationally secure public and private key ciphers. Perhaps with the ultra-high speed quantum computers and advanced quantum algorithms, public key ciphers will become obsolete in near future. In recent years, Quantum Cryptography (QC) has been proved superior, eliminating the inherent problems of classical encryption techniques. The beauty of quantum cryptographic methods is that they can be proven secure, now and indefinitely into the future, relying solely on the validity of the laws of physics for their proofs of security. This is something which is impossible for nearly all current cryptographic methods to claim.

In view of this a presentation on Quantum Cryptography was given by Asst. Prof. Minal Lopes as a part of ‘R&D Lecture’ Series on 17 February, 2018. The outline of the presentation is as follows:

- Classical Cryptography
- Introduction to Quantum Cryptography
- Protocols based on Heisenberg’s Principle
- Protocols based on Quantum Entanglement
- Next Generation Quantum Key Distribution
- Challenges for QC
- Conclusion

Prepared by Minal Lopes HOD, INFT Dr. Joanne Gomes

“BE project Orientation”

Presenter: Dr. Nupur Giri

INFT department of SFIT successfully conducted ‘BE project Orientation’ seminar for Third year students on February 28, 2018 at 3 pm in Assembly Hall. It was convened by Dr. Joanne Gomes with Ms. Nazneen Ansari, Ms. Shree Jaswal and Ms. Prajyoti Dsilva. Around 100+ students attended the seminar. The Seminar started with the felicitation of the speaker, Dr Nupur Giri . A Brief Introduction was given about the speaker to the students. The speaker started with the topic what is expected from the students in BE Projects. Introduction About Artificial Intelligence and where it is used , Fields in Data Science , Big Data Methods and Algorithms , Data Analysis and Analytics were discussed and were explained . The Speaker talked about how the Industry has changed over the period of time regarding concepts of Structured Data, Data warehouse, which are now being replaced by Hadoop, Big data analysis etc . Difference between Data Science and Business Intelligence were explained with examples of Use cases for the students to connect to the topic.

Students were told to take into consideration Real life Problems and try to solve them which will lead to a good BE Project. The speaker told about the industry standard tools which are in use now a days , languages like Python and R Programming which are useful if learned and give an upper hand while placements and for higher studies .

The speaker explained the four main stages a student goes through during the course of his/her BE project, which are Pre-processing , Learning , Evaluation and Prediction . Various Information regarding the Project scope , scope in selecting the topic for BE project were explained and various examples leaning towards topic based on Cloud Computing , IOT etc were shown to the students .

Lastly the outcomes required from the students such as:

1. How he will move from normal programming to Project 2. How will he mould Industry ready project for research was explained by the speaker . Also students were suggested to learn Pearl and Python to bridge the gap between the Old syllabus and New syllabus topics.

At the outset, this orientation was a big success and enriching experience for the participants.

Minor Research Grants 2017-18

Sr. No	Principal Investigator	Title of the Project	Sanctioned Budget (Rs.)	Total Sanctioned Budget (Rs.)
1.	Dr. Vaishali Jadhav	Detecting Diabetic Retinopathy from retinal images using deep CNNs	50,000	1,22,000
2.	Ms. Nazneen Ansari	Automatic Weather Stations for Agriculture	40,000	
3.	Ms. Nikita Rai	Smart Vault for Multi-vendor Services	32,000	

Sr.No	Name of Student	Event details	Achievements
SE-IT-A			
1	Pratha Kulkarni	Member of Robocon 2017-2018	Appreciation
		Radlab	Intern
		Robocon Workshop on Arduino	Organizing
		Iris 2018	Publicity executive
		colloquium 2018	Winner
		CCNA Workshop	Participated
		AR Wokshop	Participated
2	Pranav Khedekar	Oracle Certified Professional Java Programmer(OCPJP)	Certification
		IRIS 2018	Marketing Executive
		Workshop on Internet Of Things	Participation
3	Shreya patil	Colloquium (project presentation)	Participant
4	Ameya Patkar	ISTE(creative)	member
		Pragati 2018	participant
		iris(creative team)	member
		Colloquium competition	winner

		iris (laser tag)	organiser
5	Mamata Masurekar	Pragati 2018	Participant
6	Pawan Karkal	ISTE(Marketing)	member
		Iris Marketing team	member
		3d Gaming workshop	organiser
		Colloquium competition	winner
7	Rachel Mascarenhas	ISTE (CREATIVE EXECUTIVE)	member
		IT Colloquium (Ethical Hacking Workshop)	Participant
8	Kaustubh Acharekar	Colloquium 2018	Winner
		Radlab	Intern
9	Sanket Dalvi	Radlab	Intern
		Colloquium 2018	Winner
10	Harrshada Bhagath	Robocon 2018	Participant
		Robocon Workshop	Organizer
		Radlab	Intern
		Colloquium 2018	Winner
11	Trupti Bhuta	IRIS Publicity Committee	Executive
12	Shweta Kalekar	CCNA Workshop	Participant
		AR Workshop 2017	Participant
		Colloquium	Winner
13	Rushikesh Jalvi	CCNA Workshop	Participant
		Colloquium	Winner
		Radlab	Intern
		HuntAR	Winner
		Robocon Workshop	Participant
14	Mitali Deshpande	CCNA Workshop	Participant
		AR Workshop 2017	Participant
		Colloquium	Winner
		HuntAr	Winner
15	Joanna Dsouza	CCNA Workshop	Participant
		Colloquium	Winner
16	Anuj Badale	ISTE(program executive)	member
		IT Colloquium (Ethical Hacking Workshop)	Participant
17	Lynelle Fernandes	Member of Robocon 2017-2018	Appreciation
		Radlab	Intern
		Robocon Workshop on Arduino	Organizing
		colloquium 2018	Participant

		CCNA Workshop	Participant
18	Shinika Gomes	Deep machine learning	Participant
SE-IT-B			
1	Samson S. Correia	WORKSHOP- Internet of things (IOT) -SFIT-2018.	Participation
2	Cyril Silvester Dabre	Project competition by IT dept Colloquium, 19th & 20th January	Participation
3	Deepak Kumar Yadav	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
4	Menon Annette Anil	Marketing executive at IRIS 2018	Appreciation
		Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
5	Mishra Vishwajeet Arvindkumar	Class representative of SE IT B, 2017-18	Appreciation
		Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
6	Mistry Harsh Hitendra	Arduino Workshop by Robocon	Participation
		IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
7	Modh Rudra Mukesh	IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
8	MODI YASH MANOJ	IOT workshop at colloquium	participation
		IDF(Indian development foundation) student ambassador 2017-18 ngo	participation
		IEEE IV VICE HEAD 2017-2018	participation
9	More Atharva Sachin	IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
		Sports executive at IRIS 2018	Appreciation
10	Harshika Naik	Augmented Reality Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
11	Rajesh Nair	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation

12	Nandankar Priti Baban	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
13	Padia Karnika Parimal	Augmented Reality Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
		CSI ACCREDITED STUDENT(MEMBER) 2017-2018	Appreciation
14	PAI VIRAJ VIJAYENDRA	IEEE Publicity executive	Appreciation
		Ethical hacking workshop	participation
15	PALKAR ANISH AMOD	Workshop on Cisco Certified Network Associate, 9th September	participation
		IOT Workshop Colloquium 19th and 20th jan	participation
16	SHIVANI MAHESH PANDIT	Android Development workshop by Ecell	Participation
		IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
		Pragati	Participation
17	BHOOMI AJAY PATEL	Augmented Reality workshop by IT Dept. Colloquium, 19th & 20th January 2019	Participation
18	HARDIK VITTHALBHAI PATEL	Augmented Reality workshop by IT Dept. Colloquium, 19th & 20th January 2019	Participation
19	HARSHAL AJAY PATIL	Augmented Reality workshop by IT Dept. Colloquium, 19th & 20th January 2019	Participation
20	Siddhant Patil	Arduino workshop by robocon	Participation
		IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
21	SOHAN SUNIL PAWAR	Augmented Reality workshop by IT Dept. Colloquium, 19th & 20th January 2019	Participation
22	RODNEY ROMAN PINTO	Technical programme Executive in ISTE	Appreciation
		Creative Executive in IRIS 2k18	Appreciation
		IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
		Solo Learn python tutorial online course	Completion

23	Kaushal C. Prasad	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
24	Rajesh P. Prasad	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018*	Participation
25	Ronak Ashok Radadiya	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
26	ROHAN ROHIT RAJAK	IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
27	Rishabh G.Ranka	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
28	Rayaroth Sanjay Soman	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
29	Malcolm Wilfred Saldanha	Augmented Reality Workshop by IT dept Colloquium, 19,20th Jan 2018	
30	Mihir Michael Saldanha	Augmented Reality Workshop by IT dept Colloquium, 19,20th Jan 2018	Participation
31	Agam P Shah	Augmented Reality Workshop by IT dept Colloquium, 19,20th Jan 2018	Participation
32	Deep Ajay Shah	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
33	Harsh Hiten Shah	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
34	Meet Jayesh Shah	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
35	Vennis Vaibhav Shah	Sem 3 sgpi: 9.69	Academic
		Augmented reality by IT dept colloquium 19&20 Jan 2018	Participation
		CSI ACCREDITED STUDENT(MEMBER) 2017-2018	Appreciation
36	Mdhasan Shaikh. M	NSS Voluteer, 2017-18	Appreciation
		Class representative of SE IT B, 2017-18	Appreciation
		Assistant Web Master of IEEE, 2017-18	Appreciation

		Colloquium Volunteers of IT dept, 19th & 20th January 2018	Appreciation
		Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
		Stage & Logistic Executive of Iris 2k18, 2017-18	Appreciation
37	Sharma Niranjan Kamalkumar	Augmented Reality Workshop by IT dept Colloquium, 19th & 20th Jan	Participation
38	Sarvesh S. Sharma	Augmented Reality Workshop by IT dept Colloquium, 19th & 20th Jan	Participation
		Radlab	intern
		Datacamp (Data analysis in python)	Completion
39	Neel R. Shelar	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
40	Srishti Shirgavi	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
41	Aashutosh S. Singh	Intern at Radlab 2017-2018	Internship
		Augmented Reality Workshop by IT dept Colloquium, 19th & 20th Jan	Participation
		Marketing and Sales Internship with The Climber Jan 2018-Feb 2018	Internship
		Student Ambassador at Indian Development Foundation(IDF)	Participation
42	Anjali Singh	Ethical Hacking workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
43	Naman Talathi	Augmented Reality Workshop by IT dept Colloquium, 19th & 20th Jan	Participation
44	Ravi Talla	IOT Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
45	Nithin Vincent	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
46	Keyur Togadiya	Ethical Hacking Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
47	Bina Trivedi	Augmented reality by IT dept colloquium 19&20 Jan 2018	Participation
		CSI ACCREDITED STUDENT(MEMBER) 2017-2018	Appreciation

48	Jefferin jose	participation in MIT football tournament	participation
49	Melanie Anthony	ethical hacking workshop by IT colloquium	participation
50	ASHUTOSH VAITY	Arduino Workshop by Robocon	Participation
		Android Development Workshop by E-cell,	Participation
		Augmented Reality Workshop by IT dept Colloquium, 19th & 20th January 2018	Participation
51	Ruchi Varia	Ethical Hacking workshop by IT dept Colloquium	Participation
52	Manali Vichare	Augmented Reality Workshop by IT dept Colloquium, 19th & 20th January 2018	participation
		ethical hacking workshop by CSI	participation
TE-IT-A			
1	Yash Malhotra	Contribution as Volunteer for Transform Maharashtra by Shri Devendra Fadnavis	Appreciation
		Web Maker Competition	First Prize
		IT Colloquium Project Competition, January 19-20, 2018	Second Winner
		Student Member of IEEE Committee in 2018	Membership
		Hackathon event of MIT Persona Fest 2018, at Rajbaug, Loni Kalbhor, MIT PUNE, 16th February 2018	Participation
2	Jitendra Purohit	IT for Society Colloquium in SFIT, 2018	Won 3rd prize
		Webmaker Competition for our College website in SFIT	Participation
		Google AdWords Examination and Digital marketing competition	Successfully participated and completed
3	Deep Manek	tech cryptors ethical hacking workshop	Successfully participated and completed
		Google AdWords fundamental exam	Successfully participated and completed
		Google AdWords search exam	
4	Rishabh Mehta	IT for Society Colloquium in SFIT, 2018	3 rd Prize
		Webmaker Competition for our College website in SFIT	Participation

		Google AdWords Examination and Digital marketing competition	Successfully participated and completed
		Certificate of online summer Training for Web Development by INTERNSHALA TRAININGS	Training
		CSI Seminar On "Right to do and Right thing to do knowing the Difference Matters" (23rd August)	Appreciation
		Codex Competition	Participation
		Workshop on Ethical Hacking	Participation
		CSI Web Development Workshop 3rd-4th March	Appreciaition
5	Anushka Dhameliya	workshop on ethical hacking	Training
		Codex Competition	Participation
6	Jayita Deokar	Certificate of online summer Training for Web Development by INTERNSHALA TRAININGS	Training
		workshop on ethical hacking	Training
7	Jessica Gonsalves	Certificate of online summer Training for Web Development by INTERNSHALA TRAININGS	Training
		Workshop on ethical hacking held in SFIT	Training
		Codex Hackathon Competition held in SFIT	Participation
8	Tabassum Chohan	Student Member(CREATIVE HEAD) of IEEE Committee in 2018	Membership
		Workshop on Ethical Hacking, I.T for Society, Jan 19 -20, 2018	Participation
9	Bhavin Oza	Workshop on Ethical Hacking, IT for society colloquium in SFIT,2018	Participation
10	Shirish Nair	Workshop on Ethical Hacking	Participation
11	Micheal Erickson	Workshop on Ethical Hacking	Participation
12	Diwas Jerome Judith	workshop on ethical hacking	participation
13	Camilla Robin Dabre	Colloquium on I.T. for society (paper presentation)	participation
		workshop on ethical hacking	participation
		Student Member of IEEE Committee	Membership

		in 2018	
		Cultural Executive - Jan-Feb 2018	Organising
		Colloquium on IT for Society - Project Competition - January 2018	Winner - 2nd Prize
14	Bhavana Joshi	workshop on ethical hacking	participation
15	Joyce Chettiar	Colloquium on 'I.T for Society' Jan 19-20, 2018	Winner-2nd prize
		project competition	
TE-IT-B			
1	Het Shah	Blind Coding Competition at L.R. Tiwari College of Engineering	Winner 1st prize
		Web Designing Competition at L.R. Tiwari College of Engineering	2nd runner up
		IT Colloquium project presentation, 2018	Participation
2	Swati Modi	Website Development for SFIT's Research and Automation Lab (RADLAB)	Participation
		IT Colloquium project presentation-Rainfall Prediction Model using Machine Learning, Jan 2018	Participation
3	Manan P Sheth	Blind Coding Competition at L.R. Tiwari College of Engineering	2st runner up
		Web Designing Competition at L.R. Tiwari College of Engineering	Participation
		IT Colloquium project presentation, 2018	Participation
4	Shohan Shetty	IT Colloquium poster presentation, Jan 20-21, 2017	Participation
5	Pravin Pandey	ABU ROBOCON-Pune 1 March 2018	Participated
6	Shreyans Doshi	IT Colloquium presentation,2018	Participant
		IT Colloquium presentatin,2018	Participant
		Documentation head, ITSA	Head
7	Sahil Raut	IT Colloquium IOT Workshop 2018	Participation
8	Shraddha Pawar	IT colloquium IOT workshop-18	Participation
9	Shivani More	IT Colloquium IOT workshop 18	Participation
10	Disha Modi	IT colloquium project presentation ,2018	Participant
11	Noella Thomas	IT colloquium project presentation ,2018	Participant
		OCAJP	Certified
12	Vandana singh	IT Colloquium IOT workshop 18	Participant
13	Pranav Shah	IT colloquium Project-18	Participant

		Drupal workshop	Participant
14	Ankitha Rai	Augmented reality workshop by Prako Technocrat-2018	Participation
		OCAJP	Certified
		T.E SEM 5(CBGS)	1st Rank
15	Heli Shah	Augmented reality workshop by Prako Technocrat-2018	Participation
		OCAJP	Certified
		Workshop on Log Analysis,CSI-2018	Participation
16	Rheann Sequeira	Augmented reality workshop by Prako Technocrat-2018	Participation
		OCAJP	Certified
		Publicity committee, Iris 2018	Executive
		TechExpo, Abhiyantriki, KJ Somaiya college of engg	Participation
BE-IT-A			
1	Niki Modi	IT Colloquium- Poster Presentation Competition	Participation
2	Dixita Surti	IT Colloquium- Poster Presentation Competition	Participation
3	Karan Gadani	IT Colloquium- Poster Presentation Competition	Participation
4	Nachiket Makwana	DataCamp online course completion 1.) Python programmer track 2.)Pandas foundation course 3.)Python Data Science toolbox(1&2) 4.)Manipulating DataFrames with Pandas 5.)Introduction to Databases in python 6.)Python for Data science	Successful course completion
5	Diyo Davis	Linux Mastery course	Successful course completion
6	Manish Gupta	IT Colloquium- Poster Presentation Competition	Participation
7	Akash Dabhi	Best Student of the year	Award
		First position in 3rd year of Engg	1st Rank
		Hasura internship	Completion of internship
		IT Colloquium - Poster competition	Participation
8	Divya Pandit	Second position in 3rd year Engg	2nd Rank
		IT colloquium -poster competition	Participation
9	Santosh Sharma	IEEE conference for smart city and emerging technologies	Paper presentation
		IT colloquium - poster competition	Participation

10	Mitul Pandya	ISTE President	Participation
11	Sarvesh Narkar	Hasura Internship	Internship completion
		NPAT exam	86% in NPAT exam
		IT colloquium - poster competition	Participation
12	Sayali Jawre	Hasura Internship	Internship completion
		NPAT exam	86% in NPAT exam
		IT colloquium - poster competition	Participation
13	Priya Kumbhar	Lakshya Internship	Internship completion
		NPAT exam	86% in NPAT exam
		IT colloquium - poster competition	Participation
14	Vinit Neogi	Hasura Internship	Internship completion
15	Mihir Parikh	Hasura Internship	Successful internship completion
		NPTEL Cloud Computing Course	Successful course completion
		JSON data online course	Successful course completion

Extra-curricular Achievements

Sr.No	Name of Student	Event details	Achievements
SE-IT-A			
1	Rushia Fernandes	PRAYAS - 1st Mar'17	Organizing team
		Iris 2018	cultural executive
		Annual day 2018	Comparing
2	Pranav Khedekar	IRIS 2018	Cultural Executive
3	Arjun Kapadia	Sfit cricket team(kurukshetra)	semis
		Sfit cricket team(thadomal)	semis
		sfit cricket team(MIT)	participants
4	Ameya Patkar	NSS	member
5	Kaustubh Acharekar	Basketball Match, IRIS	Participation
6	Sanket Dalvi	NSS	Volunteer
		IRIS Annual Day Committee	Participation
		IRIS Annual Day Committee	Executive

		NSS Camp	Assistant Leader
7	Joanna Dsouza	Annual day 2018	Participant
8	Blithe Gonsalves	SFIIt football team(Atharva cup 2017)	Runners up
		SFIIt football team(Relaince foundation cup 2017)	Quater finals
		SFIIt football team(Relaince foundation cup 2018)	Participation
		SFIIt football team(mumbai university tournament)	Quater finals
		SFIIt football team(Thakurs cup 2017)	Semi finals
		SFIIt football team (MIT PUNE)	participation
9	Lynelle Fernandes	Annual Day	Participant
SE-IT-B			
1	Jovita Hembram	NSS Voluteer, 2017-18	Appreciation
2	Menon Annette Anil	Rally for rivers by NSS	Participation
		Nss volunteer 2017-2018	Appreciation
		Bhalivali Rural camp by NSS, 21th to 27th December 2017	Appreciation
3	Milly Francis	Rally for rivers by NSS	Appreciation
		Nss volunteer 2017-2018	Appreciation
		Bhalivali Rural camp by NSS, 21th to 27th December 2017	Participation
4	Mishra Vishwajeet Arvindkumar	NSS Voluteer, 2017-18	Appreciation
		SFIT library stock verification by NSS, 19th to 30th June 2017	Appreciation
		Bhalivali Rural camp by NSS, 21th to 27th December 2017	Appreciation
		Best camper in Bhalivali rural camp, NSS ,26th December 2017	Winner
5	Rajesh Nair	Sports executive at Ignitra 2018	Appreciation
		Sports executive at Iris 2k18	Appreciation
		Blood Donation drive by NSS on 23rd sept 2017	Participation
6	SHIVANI MAHESH PANDIT	NSS Voulnteer 2017-18	Appreciation
		Library stock verification by NSS	Participation
		NSS Camp at Bhalivali	Participation
7	RODNEY ROMAN PINTO	NSS Volunteer 2017-2018	Participation
		Rally for rivers by Isha Foundation on 1st september 2017	Appreciation

		Library Verification event by NSS,19 to 30 june 2017	Appreciation
		Bhalivali Rural camp by NSS,21th to 27th December 2017	Participation
		Best camper in Bhalivali rural camp, NSS ,26th December 2017	Winner
		Blood Donation drive by NSS on 23rd sept 2017	Appreciation
8	Kaushal C. Prasad	NSS Voluteer, 2017-18	Appreciation
		Bhalivali Rural camp by NSS, 21th to 27th December 2017	Appreciation
9	Mdhasan Shaikh. M	Bhalivali Rural camp by NSS, 21th to 27th December 2017	Participation
		Best camper in Bhalivali rural camp, NSS ,26th December 2017	Winner
10	Neel R. Shelar	National Level Sports Meet at MIT Pune,2017-18	Participation
		Mumbai Level Competition at Reliance	Participation
		Inter-College Mumbai University Football Tournament, 2017-18	Last 8(of 192 participating Colleges)
		Football Competition at K.J Somaiya College of engineering,Jan 2018	Participation
TE-IT-A			
1	Yash Malhotra	Annual Cultural Fest 2017	Organizing
2	Tabassum Chohan	Intercollege Dance competition at AMITY UNIVERSITY, 23rd Feb. 2018.	First Runner-up
3	Russel Dbritto	BODYBUILDING COMP (JR Mumbai)17state	winner gold
		BODYBUILDING COMP (JR maharastra)17state	winner gold
		BODYBUILDING COMP (JR mr india)17 national	winner silver
		BODYBUILDING COMP (sr Mumbai)17	winner bronze
		BODYBUILDING COMP (SR Mumbai)18	winner silver
		BODYBUILDING COMP (yuvasena intercolg fest)18	gold+championof champion
		BODYBUILDING COMP	winner gold

		(juchandra shree)18	
		BODYBUILDING COMP (VASHI MAYOR CUP)18NATIONAL	winner silver
		BODYBUILDING COMP (SAVARKAR SHREE)18	winner 4th place
		BODYBUILDING COMP (KUDUS FESTIVAL)18	winner silver
		BODYBUILDING COMP (DHAISAR SHREE)18	winner 5th place
		BODYBUILDING COMP (prabhadevi feast)18 state	winner 5th place
		BODYBUILDING ACHIVEMENTS =+25-30	
BE-IT-A			
1	Siddhi Gunaji	Throwball competition at TCET Enertia inter-college sports event	2nd place
2	Yash Chauhan	MIT Sports for Peace competition(Pune)	Participation

FACULTY ACHIEVEMENTS

Ms. Snehal Dmello	NPTEL – IIT Kharagpur certified Online Course	Completed 12 weeks online course with ELITE Class on Problem solving through programming in C conducted during Jan - April 2018
Ms. Prajyoti Dsilva	NPTEL – IIT Kharagpur certified Online Course	Completed 12 weeks online course with ELITE Class on Database Management System conducted during February - March 2018
Ms. Kiran Israni	NPTEL – IIT Kharagpur certified Online Course	Completed 12 weeks online course with ELITE+GOLD Medal Class on Data Mining conducted during February - March 2018
Ms. Monika Pal	NPTEL – IIT Kharagpur certified Online Course	Successfully completed the 8 weeks online course on Data Structures and Programming using Python conducted during February - March 2018

FACULTY PUBLICATIONS

Sr. No	Author's Name	Paper Title	Publication details
1.	Ms. Minal Lopes, Dr. Nisha Sarwade	Optimized decoy state QKD for underwater free space communication	International Journal of Quantum Information, 16th Feb, 2018
2.	Ms. Minal Lopes, Dr. Nisha Sarwade	Modeling optimized decoy state protocol for enhanced quantum key distribution	Journal of Information Security and Applications, 15th, Feb, 2018
3.	Ms. Shree Jaswal	Detecting Phishing Websites using Data Mining	2 nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018), 29 th -31 st March 2018
4.	Ms. Grinal Tuscano	Rule generation and prediction of Anxiety Disorder using Logistic Model Trees	International Conference on Smart City and Emerging Technologies, 5th Jan, 2018
5.	Ms. Prajyoti D'Silva	Regional Transport Office Automation using NFC Cards	6 th International Conference on Global Technology Initiatives (ICGTI), April 2018.
6.	Ms. Prajyoti D'Silva	Predictive Marketing Campaign for Banking System	6 th International Conference on Global Technology Initiatives (ICGTI), April 2018.

(Inputs by Ms. Lissa Rodrigues)

DEPARTMENT OF COMPUTER ENGINEERING



1st Inter Collegiate Project Competition

Computer Engineering Department had organized its 1st Inter College B.E. Project Competition on 7th April 2018. The competition was carried out in 2 rounds, 1st round being the scrutiny round for internal students and 2nd was the final round for internal students as well as external students.

1st round of competition was held on 3rd and 5th April 2018 for B.E. CMPN A and B.E. CMPN B class respectively. 16 groups were shortlisted from this round. This round was judged by professors from INFT and EXTC department.

Final round was held on 7th April 2018. The event started at 9 a.m. with a formal inauguration ceremony. The chief guest for this ceremony was, Mr. Nimish Somaiya, Oil & Gas Major, AVP Data Science & Analytics. He addressed the audience on the topic of “Current Trends in the field of IT”.

18 groups from different colleges of Mumbai had participated in this competition. The participating colleges include St. Johns College of Engineering and Management, Vidyalkar Institute of Technology, Vivekanand Education Society's Institute Of Technology, KJ Somaiya College of Engineering, etc. We had invited judges from Industry as well as Academic background.

Judge 1	Mr. Ashish Upadhyay, Head & Director, DHL Global Forwarding
Judge 2	Mr. Dilip Motwani, Associate Professor, VIT, Mumbai
Judge 3	Dr. Pallavi N. Halarnkar, Associate Professor, TSEC, Mumbai
Judge 4	Mr. Nimish Somaiya, Oil & Gas Major, AVP Data Science & Analytics
Judge 5	Dr. Archana Patankar, Professor, TSEC, Mumbai

The final round was conducted session-wise. 5 separate sessions were judging each group. Each session had about 7 – 8 groups which were judged by 3 judges (2 internal and 1 external).

In every session there was a question and answer round through which participants could explore their ideas briefly. Through this activity judges were able to share their thoughts and suggested various inputs to participants. Thus, through question & answer round knowledge was shared among participants and audience.

Judges gave feedback for every project that was presented, which helped students to think in a new direction. It was a successful completion of project presentations.

Winners of this competition are:

RANK	PROJECT TITLE	COLLEGE	PRIZE
Winner	Waste Segregation using Machine Learning	St. John College of Engineering and Management	Cash Prize Rs. 5000/-
First Runner Up	Home Automation Using Panoramic Image	Vivekanand Education Society Institute of technology	Cash Prize Rs. 3000/-
Second Runner Up	Interactive Print Media using Augmented Reality	St. Francis Institute of Technology	Cash Prize Rs. 2000/-

Bro. Jose Thuruthiyil awarded the winners with the prize money. Judges were invited to give an overall feedback for the event conducted. The event formally ended at 4 p.m.

Convener: Dr. Kavita Sonawane (HOD)

Co-convenors: Ms. Nidhi G., Ms. Vincy J, Ms. Priya K., Ms. Ankita K

Student Coordinators: Mr. Rutvik K., Mr. Jetso A (CODEX: Computer students association)







Project Orientation for BE students

B.E. Project Orientation was conducted on 27, March 2018 for Third year students in the Auditorium. The major objective of the programme was to make students aware of Final year project selection procedures.



Dr. Kavita Sonawane (HOD – CMPN) with Mr. Shahanawaz Shaikh and Mr. Nikhil Mestry)

Ms. Ankita Karia (Project Coordinator) introduced students to the process of selecting a Final year project. Students were acquainted with various domains in which they can select their projects and also what are the criteria to consider while selecting and building the project.

This was followed by an expert talk on “Project Ideas Opportunities and it's need of the hour” taken by Mr. Shahnawaz Sheikh, Mr. Nikhil Mistry who are the founders of the company WEQ and alumni of SFIT. They briefed the students about how they had started their new venture, different hardships they encountered and how they succeeded. They encouraged the students to be serious about their academics and have their basics cleared as it was very important for them if they want a successful job or want to be an entrepreneur.

At the end of the session Dr. Kavita Sonawane conveyed to students that it is good opportunity for students to interact with the Alumni performing well as Entrepreneurs or working in Industry to have quality in their projects as per the need of the hour. After this she felicitated the young achievers with a memento.

FACULTY ACHIEVEMENTS

MINOR RESEARCH GRANTS ACHIEVED:

Name of faculty	Project Name	Sanctioned amount
Ms. Jayashree Mittal	Advanced home Automaton using Li-Fi	Rs. 30000/-

NPTEL-IIT CERTIFIED ONLINE COURSES COMPLETED:

Ms. Supriya Solaskar	Successfully completed 8 week online NPTEL course with "ELITE" Medal class on "Cloud Computing" conducted during February - March 2018
Ms. Sweedal Mascarnes	Successfully completed 8 week online NPTEL course with "ELITE" Medal class on " Database Management System" conducted during February - March 2018
Ms. Safa Hamdare	Successfully completed 8 week online NPTEL course on " Database Management System" conducted during February - March 2018. Topper of 1% with "GOLD" Medal class
Ms. Jayashree Mittal	Completed 12 weeks online course with ELITE Medal Class on Data Mining conducted during February - March 2018
Ms. Priya Chaudhari	Completed 8 weeks online course on "Programming Data structures and Algorithms using Python"

DEPARTMENTAL RESEARCH ACTIVITIES:

Faculty	Name of Project	Status of Completion in %
Dr. Kavita Sonawane	Online leave management system	95%
Ms. Sneha Nikam	Online railway concession application	Completed
Mr. Jerin Thankappan	Online Document Reviewer	95%
Mr. Johnson Pen	NBA result analysis	Completed

FACULTY PUBLICATIONS:

Sr. No	Faculty	Title	Description	Date
1	Dr. Kavita Sonawane	Smart EHR System using RFID Card.	International Conference on Electrical, Electronics, Computer, Communication, Mechanical and Computing (EECCMC). 28th January - 29th January 2018.	Jan - 2018
2	Mr. Rajkumar Shende	Improved Cooperative Bait Detection Scheme to Avoid Collaborative Attacks on MANETs	Proceedings of the 2nd International Conference on Inventive Computation Technologies (ICICT 2017) IEEE	Aug-18

3	Ms. Anuradha Srinivasaraghavan, Varsha Nagpurkar	Creating Routing Plan For Keyword Query	International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS) – IEEE	Aug-18
4	Mr. Shamsuddin S. Khan	Modified Aspect/Feature Based Opinion Mining for a Product Ranking System	International Conference on Current Trends in Advanced Computing(ICCTAC)	Feb-18
5	Ms. Sridari Iyer, K. Priya Karunakaran, Ms. Snehal Kulkarni, Mr. Rupesh Mishra	Dynamic Seat Allocator for Public Buses	International Conference on Electrical, Electronics, Computers, Communication, Mechanical And Computing (EECCMC) in association with IEEE, Vellore, Tamil Nadu.	Jan-18
6	Ms. Sridari Iyer, Mr. Rupesh Mishra	DNA Computer for Cryptography	International Conference on Electrical, Electronics, Computers, Communication, Mechanical And Computing (EECCMC) in association with IEEE, Vellore, Tamil Nadu.	Jan-18
7	Nidhi gaur	Comparative analysis of an Optimized, NHA, SMCC Disk Scheduling Algorithm	2 nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018)	Mar-18
8	Jayashri Mittal	Player Performance Prediction in Football Game	2 nd IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA 2018) organized by RVS Technical Campus, Coimbatore, India on 29th March, 2018.Paper ID:2018-418.	Mar-18
9	Ms. Safa Hamdare	“An AI based system design to develop and monitor a hydroponic farm”	International Conference on Smart city and emerging technologies(ICSCET) in association with IEEE, at Universal College of Engineering, Mumbai.	Jan-18
10	Ms. Safa Hamdare	“Evaluation and Selection of Data Mining Model and Algorithm to best fit the Business Need”	International Conference On Electrical, Electronics, Computers, Communication, Mechanical And Computing (EECCMC) in association with IEEE, Vellore, Tamil Nadu.	Jan-18
11	Ms. Snehal Kulkarni, Mr. Rupesh Mishra	E-evaluator: An Electronic Evaluator of Subjective Answers	International Conference on Electrical,Electronics, Computers, Communication, Mechanical And Computing (EECCMC) in association with IEEE, Vellore, Tamil Nadu.	Jan-18

12	Mr. Rupesh Mishra	Cloud ERP for Small and Medium Enterprises	International Conference on Electronics, Communication and Aerospace Technology (ICECA) in association with IEEE, Coimbatore, Tamil Nadu.	Mar-18
13	Ms Varsha Shrivastava	Advanced Home Automation using Light Fidelity	International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018	Jan -18
14	Ms Varsha Shrivastava	Comparative analysis of an Optimized, NHA, SMCC Disk Scheduling Algorithm	2 nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018)	Mar - 18
15	Mr. Vivian Lobo	Recapitalization of Tweets Using Graph-based Clustering	LAP LAMBERT Academic Publishing, Saarbrucken, Germany. (ISBN: 9786137321164)	Jan-18
16	Mr. Vivian Lobo	A Semester Grade Point Average Estimation System for Students Attaining Higher Schooling in Specialized Courses	International Conference on Trends in Electronics and Informatics (ICOEI), IEEE, Tirunelveli, Tamilnadu, India, May 11 to 12, 2018	
17	Ms Varsha Shrivastava	Automatic Exam Seating & Teacher Duty Allocation System	2nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018)	April - 18
18	Ms. Sneha Nikam	Netra: Portable camera based reading of text for visually impaired people	International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018	Jan-18
19	Ms.Sweedle Mascarnes	Interactive Print Media using Augmented Reality	Internal Conference on Soft Computing and Signal Processing(ICSCSP), Hyderabad, Springer	Jun-18

Events Conducted/Organized:

Sr. No.	Event Title	Faculty	Description	Date
1	Financial Literacy	Safa Hamdare	Workshop for students	23 January 2018 to 18 February 2018
2	Technical Skills	Safa Hamdare	Workshop for students	20 February 2018 to 18 March 2018
3	Project Ideas related to Computer Graphics and Knowledge on various	Ms. Dakshata Panchal	Seminar	9 March 2018

	Software Tools			
4	PCA and hands on using Python	Anuradha Srinivasaraghavan and Vincy Joseph	Seminar	4 April 2018
5	Android Development	Ms. Vanessa Dbritto	Seminar for TE CMPN Students	23 February 2018 to 26th February 2018
6	Drupal	Ms. Safa Hamdare	Seminar for TE CMPN Students	28th August 2018 , 29 August 2018
7	Introduction of Python and Basic Data Types	Ms. Priya Karuranakaran , Ms. Sridari Iyer , Mr. Rupesh Mishra , Ms. Sneha Nikam	Workshop	17 February 2018
8	Deep Learning	Dr. Kavita Sonavane, Mr. Rupesh Mishra, Mr. Vivian Lobo	Codex Workshop	29 and 31 March 2018

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COLLEGE TO CORPORATE PROGRAM- FINANCIAL LITERACY

Joint initiative of Corporate and IIT Bombay X
January 23rd, 2018 to February 19th, 2018

The Financial Literacy program was primarily targeted at pre-final and final year students, to help them prepare for the corporate world, and perform better in the recruitment process. Corporates that recruit the final year students have certain expectations from their prospective employees. If the students/candidates are made aware of these expectations and the skills required fulfilling these expectations, their journey from College to Corporate would become easier. This program was conducted using the hybrid/blended MOOCs pedagogy developed at IIT Bombay. This program was from 23rd January 2018 to 19th February 2018. Out of 31 participants enrolled for this course, 26 participants attended and completed this course successfully.

The student's as well as teacher's gained various technical insights of the business and investment industry and came to know the complexity of how things are done in a business perspective and one of the main advantage that everyone who attended this course took was to learn that saving

from an early age will result into good earnings/returns in the future through investments in mutual funds and stock.

IIT Bombay Workshop

I. FDP in ICT for Education

This was a Two-week FDP workshop consisting of two components as follows:

1. **Online work by individual participants**, where participants completed the assignments and task through online activity and online test was also given. This is equivalent to one day of work in a regular FDP. This activity spread over 5 calendar weeks: From Thursday 03 August to 07 September 2017.
2. **Face-to-Face interaction** Participants had physically attended these sessions at our Remote Centre (RC-1067) on 19th August and 20th August 2017. The discussions and local tutorial sessions was moderated by Ms. Safa Hamdare as a Workshop Coordinator.

Learning Objectives for the Course:

Participants are now able to:

- i. Identify various ICT devices and applications useful in teaching-learning
- ii. Develop awareness towards ethical practices for use of ICT in education
- iii. Make use of best practices for information dissemination using ICT

Participants Details:

Total 21 participants participated and successfully completed their workshop with more than 50% Score and 100% attendance. Out of these 21 participants 2 participants were from external college. All these 21 participants were eligible for the next FDP 2 Workshop as they cleared the first one.

II. FDP in Pedagogy for online and blended Teaching Learning Process

This was a Two-week FDP workshop consists of two components as follows:

1. **Online work by individual participants:** Where participants completed the assignments and task through online activity and online test was also given. This activity spread over 5 calendar weeks: From Thursday 14 September 2017 to Thursday 12 October 2017.
2. **Face-to-Face interaction:** This activity was conducted on the weekends of: 16 & 17 September 2017 and 7, 8 October 2017. Participants had physically attended these sessions at our Remote Centre (RC-1067). The discussions and local tutorial sessions were moderated by Ms. Safa Hamdare as a Workshop Coordinator.
3. **Team Assignment:** Teams of 3 to 5 members were formed among the participants at the RC. Each team was required to create and review the assignment, and submit the

same via online. Here again, each participant has to spend adequate effort, albeit in a coordinated manner with other members of the team.

Learning Objectives for the Course:

Participants are now able to:

- i. Integrate active learning in their regular teaching learning practice
- ii. Create an Open Educational Resource to be used in their classrooms
- iii. Justify the blending of online instruction in their regular teaching-learning practice
- iv. Participate in Collaborative Community involved in Open Education Resource creation and dissemination

Participants Details:

Total 09 participants participated and successfully completed their workshop. Out of these 09 participants 2 participants were from external college.

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**REPORT ON COLLEGE TO CORPORATE PROGRAM-
TECHNICAL SKILLS**

Joint initiative of Corporate and IIT Bombay
January 23rd, 2018 to February 19th, 2018

The technical Skill program was primarily targeted at pre-final and final year students, to help them prepare for the corporate world, and to perform better in the recruitment process. Corporates that recruit the final year students have certain expectations from their prospective employees. If the students/candidates are made aware of these expectations and the skills required for fulfilling these expectations, their journey from College to Corporate would become easier. This program was conducted using the hybrid/blended MOOCs pedagogy developed at IIT Bombay. This program was from 20th February 2018 to 18th March 2018. Out of 34 participants enrolled for this course, 33 participants attended and completed this course successfully.

[Inputs by Ms. Safa Hamdare]

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Report on “Introduction of Python and Basic Data Types” Workshop

Date: 17 February, 2018. Venue: Room 401A

Conducted by: Ms. K. Priya Karunakaran, Ms. Sridari Iyer, Ms. Sneha Nikam and Mr. Rupesh Mishra

For aspiring Data Scientists, Python is probably the most important language to learn because of its rich ecosystem. Even though Python is a general-purpose programming

language, it offers a lot of libraries for you to do data science. In addition, it has a relatively low learning curve, so you get proficient pretty quickly. Also Python is in the syllabus for second year Computer Engineering students for the course “Open Source Tech Lab”. Keeping this in mind this workshop was designed to give the faculties an introduction to the basics of Python programming. The workshop was attended by not only faculties of the department of Computer Engineering but also from the Department of Electronics and Telecommunication and the Department of Information Technology. This hands-on workshop covered the topics of Python installation, basic data types, operators and control structures. Advanced sessions of this workshop will be conducted in the coming semester.

[Inputs by Ms. K. Priya]

Report on “PCA and hands on using Python”: R& D Series Lecture

Date: 4th April, 2018

Conducted by : Ms. Anuradha Srinivasaraghavan and Ms. Vincy Joseph

A session on Hands-on in Python for PCA was conducted by Ms. Anuradha Srinivasaraghavan and Ms. Vincy Joseph as part of R and D lecture series. There were around 15 participants. The basics of Dimensionality reduction along with the importance of PCA was initially discussed. This was followed by step-by-step implementation of PCA in Python using Sci-kit Learn. The lecture was useful for those who were during projects in Machine Learning and to those working on Dimensionality Reduction Techniques.

[Inputs by Ms. Anuradha]

Industrial Visit to BARC

Date: 7th April, 2018

Staff : Rajkumar Shende, G. Anuradha, Vincy Joseph, Jerrin T., Amanat Ali Pathan and Mandar Rane

An industrial visit was undertaken for **BE CMPN** students to BARC on 7th April 2018. One day prior to the visit, a brief introduction and overview of BARC was given to the students highlighting the advantages of nuclear energy and its potential applications in biomedical research, food security, material sciences, nanotechnology, waste-management, energy security, crime detection etc. The batch was of 137 students. During the visit the students were taken for the facility tour of the following departments:

1) Supercomputing facility, 2) Dhruva reactor and 3) Food technology department.

The visit was very informative and educative for the students.

Industrial Visit to: City Institute of Disaster Management, Lower Parel

Date of Visit: 13.03.2018 and 15.03.2018

Faculty: Mr. Shamsuddin Khan, Ms. Vincy Joseph, Ms. Nidhi Gaur and Mr. Vivian Lobo

Participants: BE CMPN students

Class **B.E. CMPN A** students and two assistant professors, Mr. Shamsuddin Khan and Ms. Vincy Joseph visited the City Institute of Disaster Management on 13th March, 2018 whereas Class **B.E. CMPN B** students and two assistant professors, Ms. Nidhi Gaur and Mr. Vivian Lobo visited the same on 15th March, 2018. CIDM aims at minimizing loss of life and property due to any dangerous situation that might occur anywhere within jurisdiction of the Municipal Corporation of Mumbai. This Cell is required to co-ordinate between various aid agencies so as to provide quick and efficient medical services to victims by taking immediate and proper decisions.

City Institute of Disaster Management, Lower Parel is a backup office for the main branch which is located at CST. It usually has around 20 Staff on duty unless there is a failure at the main office. Mr. Ajit Deshmukh , Head Of Research and Development, addressed the students and introduced about the disaster management cycle which is an on-going process by which governments, civil (and military) society plan for and reduce the impact of disasters, react during and immediately following a disaster, and take steps to recover after a disaster has occurred. He explained about the functioning of the Unit and the four phases of disaster cycle: Mitigation, Disaster Preparedness, Disaster Response and Disaster Recovery. He also guided the students how to respond in case of disasters like fires and earthquakes.



[Inputs by Mr. Shamsuddin Khan]

STUDENT ACTIVITIES

Sr. No.	Event Date	Title of Workshop/ Event Name	Name of the student/s	Class/ Sem/ Div	Venue	Conducted/ Attended/ Participated	Professional Body associated (if any)
5	January 2018	CODEX - SFIT Official Website	Nilesh Mishra	TE-CMPN-B	SFIT	Web Master	CODE-X
9	16.02.2018	MIT Persona Fest, Pune Hackathon	Parth Kholkute	SE CMPN B	SFIT	Participated	MIT Pune

- Many Students have participated in various competitions/ conferences and other technical events like Multicon 2017/2018, Developer Connect by NVIDIA, Mozilla Club CRCE Tech Talk, Google DevFest 2017, ERR_404 State Level Hackathon/ WebMaker Competition.
- Many have organized tech events like Laser Tank/ Aurdino Workshop
- Many have participated and given remarkable contribution in Extra-Curricular Activities/ NSS activities

Paper publications by students:

Sr. No	Student Name	Title of Paper	Conference/Journal Details (Name, Issue date, volume no, Venue)
1	Saloni Chauhan, Adinath Bajpai, Dylan James, Archana Mishra	Smart EHR System using RFID Card.	International Conference on Electrical, Electronics, Computer, Communication, Mechanical and Computing (EECCMC). 28th January - 29th January 2018.
2	Glenn D'britto	An AI Based System Design to Develop and Monitor a Hydroponic Farm	International Conference on Smart City and Emerging Technologies (ICSCET-2018), IEEE, 5th January 2018, Universal College of Engineering Mumbai
3	Varun Maniar, Soham Thaker	A Novel approach for Extracting and Combining relevant Web Content	2nd IEEE International Conference on Electronics, Communication and Aerospace technology, ICECA 2018, 29-31 March 2018, Coimbatore, India
4	Rahul Dubey, Bini Edward, Reginald Lewis	Algorithm to Code Convertor	International conference on Trends in Electronics and Informatics (ICOEI 2018), being organized on 11,12 May 2018 by SCAD College of Engineering and Technology, at Tirunelveli, India

5	Apurva Inamdar, Anand Gangar, Arun Gangar	Automatic Exam Seating & Teacher Duty Allocation System	2 nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018)
6	Pranali Denis Nunes,	Creating Routing Plan For Keyword Query	International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS) – IEEE, August 2018.
7	Mayuri Sapkal, Mitali Rathod	Netra: Portable camera based reading of text for visually impaired people	International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018
8	Shivan Desai, Vatsal Solanki, Motamarri Tejaswararao	Cloud ERP for Small and Medium Enterprises	International Conference on Electronics, Communication and Aerospace Technology (ICECA) in association with IEEE, Coimbatore, Tamil Nadu. 29-31 March 2018
9	Ms.Nishitha Suvarna, Ms.Aditi Talapde, Ms.Zeena Mendonca	Visual Gesture Recognition for Text writing in Air	International Conference on Intelligent Computing and Control Systems (IEEE ICICCS 2018) organized during 14-15, June 2018
10	Kevin Fernandes, Shannon Pereira, Garric Mathias,	Advanced Home Automation using Light Fidelity	International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018

Sports Achievements

Sr. No.	Student's Name	Event Name	Name of the sport	Class/Sem/Div	Achievement
1	Umang Mavani	FIL (Football is life)	Football	TE CMPN B	Certified from Atletico De Madrid football club for training 120 boys.
2	Naomi Pereira	SFIT Girls Throw ball Team Selection	Throw ball	TE CMPN B	Active Team Player of SFITs Girls Throw Ball Team

SEED IT IDOL Competition

Date: 27 March 2018

The SEED IT IDOL competition, by SEED Infotech Ltd had its first round in our college on 24th January which consisted of mcq type questions on c programming language. They conducted similar first round competition in other collages also. So in all around 70,000 students had appeared for the exam. And out of them only 130 were selected for second round of the competition which happened on 20th March 2018 in Marathi Bhasa Bhavan Mumbai University campus, Santacruz. Among the 130 selected students all across from Mumbai, 21 of them were our students. The 2nd round of the competition was same as 1st round with mcq test on c programming. And from that 130 students top 10 were selected for final round competition which also happened on same day and none of our college student had been selected. The top 10 finalists were given an online quiz exam on software provided by SEED Infotech. Finalists were given a situation which they had to enact on stage. Then they announced the results. And finally they announced that apart from top 10 students other top 50 rankers would also be rewarded with medals. And from our college 10 students from SE and 3-4 students from TE had participated and 10 of them (SE+TE) were in top 50 and received a medal. The competition winded up with prize distribution ceremony.

The ranking of CMPN students were as follows:-

Roshal Moraes :- 10 – 20 rank
Nigel Martis :- 20 – 30 rank
Urjit Desai :- 20 – 30 rank
Harsh Jalan :- 20 – 30 rank
Vinit Masrani :- 30 – 40 rank
Rishabh Bhatnagar :- 30 – 40 rank

[Inputs by: Vinit Masrani]

STUDENTS ACADEMIC ACHIEVEMENTS

Academic Achievements - (IIIrd Sem Result) July 2017- Dec 2017

Sr. No.	Student's Name	Achievement	Class/Sem/Div	CGPA
1	Sneha Kha	First Rank	SE CMPN A	10
2	Prithvi Shetty	First Rank	SE CMPN B	10
3	Roshal Moraes	First Rank	SE CMPN B	10
4	Bosc sylvester John	Second Rank	SE CMPN A	9.85
5	Urjit Desai	Second Rank	SE CMPN B	9.85

6	Sitanshu Kushwaha	Third Rank	SE CMPN A	9.77
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Academic Achievements (Vth Sem Result) July 2017- Dec 2017

Sr. No.	Student's Name	Achievement	Class/Sem/Div	CGPA
1	Reuel Richard Lemos	First Rank	TE CMPN B	9.83
2	Apurva Naik	Second Rank	TE CMPN B	9.67
3	Ms. Ankita Sharma	Second Rank	TE CMPN B	9.67
4	Ms. Talisha Tanna	Second Rank	TE CMPN B	9.67
5	Ms. Adarsh Pai	Third Rank	TE CMPN B	9.50
6	Ms. Shruti Sawant	Third Rank	TE CMPN B	9.50
7	Ms. Geeta Suvarna	Third Rank	TE CMPN B	9.50

Academic Achievements (VIIth Sem Result) July 2017- Dec 2017

Sr. No.	Student's Name	Achievement	Class/Sem/Div	CGPA
1	Desai Shivam Vyomkesh Sangita	First Rank	BE CMPN B	9.68
2	Athira J Jayachandran Rema	Second Rank	BE CMPN A	9.52
3	Edward Bini Mariamma	Second Rank	BE CMPN A	9.52
4	K B Vinduja Omanakuttan Vidya	Second Rank	BE CMPN A	9.52
5	Albin Nevil Jeevan Lucy	Second Rank	BE CMPN A	9.52
6	Aldanha Sybil Maria Succourina	Third Rank	BE CMPN B	9.36
7	Khanna Riya Ramesh Anju	Fourth Rank	BE CMPN A	9.28

(Inputs by Ms. Priya Karunakaran)

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATIONS



Congratulations
on completing your
PhD



Dr. Ravindra Chaudhari

Dr. Ravindra Chaudhari's topic for research was ***FRACTAL VIDEO COMPRESSION USING FAST CROSS-CORRELATION BASED TECHNIQUES*** under the guidance of **Dr. S.B. DHOK** from **VISVESARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR.**

Workshop/Seminar/Conference Conducted

Sr. No.	Name of the Faculty	Title of Workshop/Seminar/Conference	Organizing Body
1.	Dr. Gautam Shah	Resource person conducted 'Linear Integrated Circuit' subject orientation program for revised syllabus on 4th Jan 2018.	SFIT, Mumbai
2.	Mr. Vaqar Ansari	Resource person conducted 'Signals and Systems' subject orientation program for revised syllabus on 4th Jan 2018.	SFIT, Mumbai
3.	Ms. Anjali Chaudhari & Mr. Inderkumar Kochar	AICTE-ISTE Approved One Week Short Term Training Program On "Commercial trends in Antennas and microwave technologies inclination towards start-Ups", June 25, 2018 to June 29, 2018	SFIT, Mumbai

STUDENTS' ACHIEVEMENTS

Name of Student	Achievement
Trilok Sawant	Secured 1st place in "PRAGATI" Project Competition at SFIT
Neha Nagarkoti	Secured 3rd place in National Innovation Competition held at Sahridaya College of Engineering, Kerala

S.No	Name of Student	Faculty	Paper Title
1	Bryan Almeida	Ms. Pallavi Patil	Offline Signature Recognition System Using Histogram of Oriented Gradients. Paper published in International Conference on Advances in Computing, Communication and Control (ICAC3) 2017
	Niketa Chettiar		
	Joyal Babu		
2	Aradhana Kaintura	Ms. Savita Kulkarni	Proactive street light management system. International Conference on Advances in Computing, Communication and Control (ICAC3) 2017

3	Dhanvin Mehta	Real Time Gesture to Automotive Control. Real Time Gesture To Automotive Control in ICCTCT 2018 IEEE International Vonference on Current trends towards Converging Technologies, Tamil Nadu
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S.No	Name of Student	Activity
1	Rutuja Girmal	Poster presentation on Music Emotion Recognition In colloquium on IT for Society

Sr. No	Name of Student	Activity
1	Shaikh Gulam Nasir	Winner of workshop on IOT HOME AUTOMATION at SFIT
2	Abhishek Salian	
3	Brendon Castelino	organized workshop on IOT HOME AUTOMATION at SFIT
4	Shaikh Gulam Nasir	completed workshop on IOT HOME AUTOMATION at SFIT
5	Abhishek Salian	
6	Brendon Castelino	

Sr .No	Name of Student	Activity
1	Vivek Baranwal	exhibited project TAP CAP LOCK SYSTEM in India's biggest Maker Gathering 'Maker Mela' 2018
2	Faizan Shaikh	Reached Semi Finals (Task 5) of Eyantra- organized by IIT Bombay an annual robotics competition
	Rohan Suresh	
	Pankaj Chauhan	
	Vishal Shetty	
3	Janak pisharody	National level project competition at Fr. Rodrigues College of engineering, organized By IEEE CRCE, Crescendo 2018
	Swapnil Phalke	
	Sonali Parab	
	Aishwarya Nambiar	
	Guddi Tyagi	
4	Rutuja Girmal	Intercollege Project Competition at SFIT, Mumbai- Truth Discovery Using Gaussian Truth Model
	Dhuru Viraj	
	Rochelle Fernandes	
	Umang Bhatt	

Sr. No	Name of Student	Activity
1.	Vivek Baranwal	secured 1 st place in Volleyball under 18 criteria at TCET
2.	Gulam Nasir Husain Shaikh	IEEE Membership
3.	Navin Mahari	2 nd position in Season ball Cricket. SPORTSAGA 2018 at Institute of Chemical Technology
4.	Navin Mahari	1 st position in box Cricket. Inter Collegiate festival, SFIMR
5.	Sushant Govind	MIT world Peace University (PUNE). National Level Inter Engineering College Sports meet SUMMIT 17
6.	Sushant Govind	1 st position in box Cricket. Inter Collegiate festival, SFIMR
7.	Sushant Govind	2 nd position in Season ball Cricket. SPORTSAGA 2018 at Institute of Chemical Technology
8.	Ankit Mori	1 st position in box Cricket. Inter Collegiate festival, SFIMR
9.	Ankit Mori	2 nd position in Season ball Cricket. SPORTSAGA 2018 at Institute of Chemical Technology
10.	Aishwaria Manoj	IELTS Overall Score Band 8.0

Approved guides for PhD program from University of Mumbai

Dr. Deepak Jayaswal
Dr. Gautam Shah
Dr. Uday Pandit Khot
Dr. Kevin Noronha
Dr. Joanne Gomes

FACULTY ACHIEVEMENTS

Minor Research Grants 2017-18

Sr. No	Principal Investigator	Title of the Project	Sanctioned Budget (Rs.)	Total Sanctioned Budget (Rs.)
1.	Mr. Ansari Vaqar	Smart Rover for Surveillance	30,000	88,000
2.	Ms. Nikita Rai	Smart Vault for Multi-vendor Services	32,000	
3.	Ms. Shilpa Chaman	Printing from a USB Flash Drive Without PC	26,000	

Ms. Jovita Serrao	NPTTEL – IIT Kharagpur certified Online Course	Completed 12 weeks online course with ELITE Class on Introduction to internet of things conducted during Jan - April 2018
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FACULTY PUBLICATIONS

Sr. No	Author's Name	Paper Title	Publication details
1.	A. Chaudhari	A Wideband Microstrip Array Design using RIS and PRS Layers	<i>IEEE Antennas and Wireless Propagation Letters</i> , Jan 2018
2.	Inderkumar Kochar	RF Transmit/ Receive Quadrature Fed Body Birdcage Coil for a 1.5T MR System	<i>IEEE International Conference on Electronics, Materials Engineering and Nano-Technology (IEMENTech 2018)</i> , May 2018, Kolkata
3.	R. E. Chaudhari	Word level Multi-Script Identification Using Curvelet Transform in Log-Polar domain	<i>IETE Journal of Research</i> , 2018.
4.	R. E. Chaudhari	Fractal video compression with NCC Based Walsh transform	<i>International conference on Recent Trends in Computational engineering and technologies</i> , India, May2018
5.	Santosh Chapaneri	Chrominance based Splicing Image Forgery Localization with Relevance Vector Machine	SCEECS 2018 (MANIT, Bhopal)
6.	Gautam Shah	Performance Analysis of LTE Network using QAM and MIMO Configuration	Proceedings of 4 th International Students' Conference on Electrical, Electronics and Computer Science (SCEECS'18), MANIT, Bhopal, February 24 -25, 2018.
7.	Gautam Shah	Non Data Aided SNR Estimation for Nakagami-m Fading Channel	Proceedings of 4 th International Students' Conference on Electrical, Electronics and Computer Science (SCEECS'18), MANIT, Bhopal, February 24 -25, 2018.

AICTE-ISTE approved One Week Short Term Training Program on “Commercial trends in Antennas and Microwave technologies inclination towards start-Ups”, June 25 2018 to June 29, 2018.



(Inputs by Ms. Snehal Lopes)

E-Cell

As every year, SFIT-E-Cell organised number of events which were appreciated and proven to be useful for aspirant entrepreneurs in the academic year 2017-18.

Faculty members of SFIT E-Cell – Mr. Bysani M., Mr. Bhavesh Pandya and Mr. Jerrin Thankappan attended an entrepreneurship training program arranged at Sardar Patel Institute of Technology, Andheri from 22nd June to 25th June 2017. The later part of this program is to conduct courses at our college premises for SFIT students who register for the program.



Inauguration of NEN course at SFIT: From left : E-leader Prachi Gupta (at Podium), Mr. Bysani M. SFIT-E-cell Faculty Member, Bro. Jose Thuruthiyil, Director SFIT, Dr. Sincy George, Principal, SFIT, Dr. Prachi Raut, SFIT-E-cell Coordinator

- This course is conducted in conjunction with National Entrepreneurship Network (NEN) by Wadhvani foundation that has developed curriculum and course material. The advanced stages of the course involve mentoring and funding for start-up ideas of the participants.
- Mr. Jerrin Thankappan (SFIT-E-Cell Faculty Member) conducted ideation workshop on how to develop useful project ideas on 2nd August 2018 as a pre-cursor to Pragati 2018. Around 40 students attended the workshop.



Mr. Jerrin Thankappan, SFIT-E-Cell Faculty Member conducting Ideation Workshop

- Dr. Rakhi Sharma, HOD, Jai Hind College conducted a business plan development workshop on 23rd August 2017. Dr. Sharma explained the concepts like value proposition, customer segment identification, channel development *etc.*



Dr. Rakhi Sharma, HoD, Jai Hind College, conducting Business Plan Development Workshop

- E-leaders Ms. Prachi Gupta (SE-INFT) and Mr. Suraj Negi (SE-CMPN) attended NEN E-leader workshop at Thakur College of Engineering on 15-16 September 2017.
- Mr. Bysani M. and Mr. Paul Fernandes attended an orientation program at New Delhi in January 2018 for “Pradhan Mantri Yuva Yojna”. Both of them are conducting the same course at SFIT for SFIT students as well as external students.
- The Entrepreneurship day was organized on 13th January, 2018. Around 50 first year students of SFIT attended this program. The theme of this event was Introduction to entrepreneurship through games.



Mr. Anand Mehta conducting a session at Entrepreneurship day 2018

Mr. Anand Mehta was the main resource person. He held an interactive session with the audience and discussed the idea of being an entrepreneur and what it takes to succeed as one. Through a fun activity, he showed that one has to break the traditional barriers of thinking and go beyond to succeed. In another activity, the audience was told to pair up and get to know a new person and draw his facial features. The idea of breaking the social shyness and opening up to new people was the motive behind this activity.

The highlight of Mr. Mehta's session was the team building exercise where students in groups of 8-10 were told to build a particular given passage for the ball using chart paper. The art of communication, working together in a team and mutual decision making qualities were brought out from everyone.

- Android Workshop – was conducted by Mr. Vikrant Fernandes on 27th January 2018 for Pragati participants.
- Pragati 2018 – An annual technical innovation competition was held on 16-17 March 2018. Pragati 2018 was conducted on much bigger scale than its predecessor. This year the competition was open for students from other engineering colleges also.



Panel discussion at Pragati 2018: From left : Mr. Sanket Prabhu (Moderator), Mr. Ashray Malhotra, SoundRex, Mr. Upendra Rai , Millionminds, Mr. Dibang Raja, Venture Garage, Mr. Mayur Agarwal G10 Consultancy, Dr. Amit Andre, Vinsys Technologies

Total eight external groups participated. Mr. Wilson Pinto, Training and Placement Officer played a pivotal role in getting major sponsorships. SFIT-E-cell managed to bag sponsorship of Rs. 70,000 in cash and some other in kinds.



SFIT-E-cell Team with Pragati 2018 participants

Number of SFIT faculty, staff and students visited project competition, panel discussion and start up talks.

(Inputs by Dr. Prachi Raut)

FIRST YEAR ENGINEERING DEPARTMENT



***CONGRATULATIONS TO ALL FE DEPARTMENT
FACULTIES, STAFF & STUDENTS FOR SECURING THIRD
RANK IN MUMBAI UNIVERSITY***

PRAYAS-2018

Prayas-2018, the presentation/working model competition for students of First Year Engineering was held on March 7, 2018 at St. Francis Institute of Technology (SFIT), Borivali (W), Mumbai-103. This is a platform where students of First year get to showcase projects that exhibit practical application of their theoretical learning and their presentation skills. It was the 3rd year of the competition and this year it was approved by ISTE. About 54 students participated in this competition from 19 groups. 10 groups presented their ideas in the form of PowerPoint presentations and remaining exhibited their working models. Ideas like Android apps, models of Maglev train, Traffic Management System, Interactive Hologram were on display. The program was inaugurated by our Honorable Director, Brother Jose Thuruthiyil and Ms. Jessline Coutinho, an alumna of SFIT from Department of Computer Engineering. Ms. Coutinho is the founder, Director of a start-up known as Royale Neshar. In her inauguration speech, she threw light on Importance of Innovation in starting a Business. She also highlighted the struggles of an entrepreneur until the business actually starts running. It was great to have her to share her experience with students who seemed deeply inspired by the Start-Up details.

Many of the students and teachers of SFIT visited the competition venue and interacted with the participants. The parents who visited the venue appreciated the efforts of the FE students. In the valedictory function, the Training and Placement Officer of the college Mr. Wilson Pinto spoke about the challenges faced by the engineering graduates in the current market scenario. He emphasized on the importance of innovation in his talk. Prizes worth Rs. 10,500/- were sponsored by SFIT-ISTE Students Chapter for this competition.

Mr Sunil Pansare worked as the Coordinator for this programme. Ms. Beatrice Lobo and Mr. Ravindra Garmode were the Co-coordinators. The First Year Coordinator, Dr Poonam Hemnani and the Principal Dr.Sincy George were main pillars of support for this programme. All the teaching, non-teaching staff members of Basic Sciences and Humanities Department

and the students of First Year Engineering worked tirelessly towards successful organization of Prayas-2018.



Inauguration Function of Prayas-2018 followed by Ribbon Cutting Ceremony for Model Display section of the competition.



Dignitaries interacting with the student members of the project group.



Congratulations to Mr. Sainath Ghosalkar & Ms. Gauri Jagushtee for qualifying State Eligibility Test (SET) for Assistant Professor Accredited by U.G.C. & Conducted by Savitribai Phule Pune University state Agency (University Of Pune) on 28th January 2018.



Congratulations to FE Department for bagging the First Prize in the Christmas Skit Competition at SFIT.

INDUSTRIAL VISIT OF FE STUDENTS

An industrial visit was arranged for the First year students of Engineering on 16th and 17th Feb 2018, with an aim to go beyond academics, to provide student a practical perspective on the world of work. Three hundred two students, from IT, EXTC, CMPN branches accompanied by 14 staff members visited the industries.

Industries visited were Navneet Publications, Kryfs Power Components, Nilkamal Plastics Factory, Alok Industries, Sudhir Generators, Universal Cosmetics and Amber cosmetics

This industrial visit helped the students to observe and learn how the delicate and complex process of production works. The Plant supervisors were very informative and demonstrated the process of manufacturing of various products. We received excellent service and reception from the hotel management. Overall the I.V. was tantalizing and the learning experience was far better than theoretical books. The students could relate the theoretical knowledge in practical life.



INDUSTRIAL VISIT 2018



FACULTY ACHIEVEMENTS

I. EXAMS CLEARED

Ms.Preethi Fiona Colaco	NPTEL – IIT Bombay certified Online Course	Completed 12 weeks online course with ELITE Class on Main Group Chemistry conducted during Jan - April 2018
Mr.Mohammad Faiz	NPTEL – IIT Roorkee certified Online Course	Completed NPTEL course on Multivariable calculus conducted by IIT Roorkee under elite category
Ms. Josna Jose	NPTEL – IIT Kharagpur certified Online Course	Completed 12 weeks online course on Power System Engineering conducted during Jan - April 2018
Ms. Josna Jose	NPTEL – IIT Kharagpur certified Online Course	Completed 12 weeks online course with ELITE Class on Problem solving through programming in C conducted during Jan - April 2018
Mr. Sainath Ghosalkar	NPTEL – IIT Roorkee certified Online Course	Completed NPTEL course on Multivariable calculus conducted by IIT Roorkee under elite category

II. OTHER ACHEIVEMENTS(Conferences /Workshop/Seminars attended)

Mr. Sunil R. Pansare	Attended AICTE/TEQIP Sponsored STTP on "Fundamentals and Applications of Fracture Mechanics" held at VJTI, Mumbai ary 22-27, 2018.
Mr.Bysani Malakondaiah	Five-day workshop on “Entrepreneurship Faculty Educator Program” for Orientation course in Entrepreneurship held at NIESBUD, NOIDA from 8th to 12th January
Ms. Astrid D'souza	Attended Orientation Programme for Applied Mathematics IV (EXTC) at Thadomal Shahani Engineering College, Bandra
Ms. Rachel Pereira	Attended Orientation Programme for Applied Mathematics IV (INFT and CMPN) organised by Vidyalkar Institute of Technology, Wadala

III. PAPER PRESENTATION

Mr.Bysani Malakondaiah	“Study on Power consumption of Split Air Conditioner depending on distance between Condenser and Evaporator Units” paper is accepted for Oral presentation in INTERNATIONAL CONFERENCE ON INTELLIGENT MANUFACTURING AND AUTOMATION, ICIMA 2018. Organized by D.J. Shanghvi College of Engineering on July 20 –21, 2018.
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(Inputs by Ms. Josna Jose and Ms. Renita D'souza)

RADLAB

Activities

RadLab activities in the new semester began with a Data Science course for students on Datacamp website. The website offers data science and statistics courses in Python and R language. Although Datacamp courses are paid, they have an online classroom program wherein limited seats are provided with full access to the whole course material. The RA's been successful in getting access to the online classroom program and was provided with 80 seats and full access to the course. A total of 70 students enrolled for the course and weekly assignments were given to them. The progress of the students was monitored by Research Assistants and a warning was given to students for incomplete assignments. After 3 warnings the student was removed from the program.

A half yearly meeting with the R&D department was held on 24 January 2018. Progress and Radlab activities as well as introduction of student projects were presented in the meeting. It was decided in the meeting to shift the focus from student based approach to product development approach.

With the Robocon 2018 National Robocon competition approaching (1st - 3rd March), Radlab RA's were instructed by the Principal to guide and help the team with the completion and testing of the robots for this year's theme.

Project Report

Automation and Swarm Robotics Aid (AASRA):

Student interns were divided in two groups of 4 each and were assigned robot design and simulation task. The robot designs included specific mechanisms of locomotion, different sensors and mode of communication. The students came up with a lot of unique designs for the robots and after numerous simulations the robot design was finalized. After this, simultaneous testing and research on components to be used were conducted. At the same time, simulation of multi agent robots in V-Rep software wherein an environment was created such that robots do not collide with each other as well as with the walls was implemented. In the first week of April, the testing of electronic components to be used was done and then finalized. Testing of modular components was also done and the final component list was prepared. Since students had their IAT and final viva exams approaching they weren't involved in the testing phase, however weekly meetings were kept to ensure that transfer of knowledge took place.

List of students involved:

Sr. No.	Name	Class
1	Aashutosh Singh	SE-IT-B
2	Harrshada Bhagath	SE-IT-A
3	Harsh Mistry	SE-IT-B
4	Kaustubh Acharekar	SE-IT-A
5	Rushikesh Jalvi	SE-IT-A
6	Sanket Dalvi	SE-IT-A
7	Siddhant Patil	SE-IT-B

8	Sitanshu Kushwaha	SE-CMPN-A
9	Tristan Colaco	TE-EXTC-A

Depth Estimation using Monocular cues:

A meeting was held in the first week after college reopened with the student interns and a timeline along with the roles were decided. Students were assigned tasks of completing small modules like hardware setup for data gathering, implementing a simple OpenCV method for comparison with the proposed method. Meanwhile haar cascade classifier method of extracting features for a single object similar to the face detection method used in OpenCV was implemented. However this method failed to provide the desired results owing to lack of hardware resources. To meet the hardware requirements, Google Cloud Services were used. However, due to the limited free resources available and difficult user interface use of GCS was discontinued. For data collection the Tensorflow Object Detection API for a single object was implemented. Although the method was successfully implemented, the method failed at distances greater than 1m thereby causing issues in data collection. Hence face recognition using OpenCV (haar cascades) method was finalized for data acquisition. The only drawback of the data collection method was that the data was collected manually rather than using an automated mechanism. This manual method of data collection induced errors in the final model. After data collection, a machine learning algorithm was used on the data and the final model obtained was tested on unknown data. The model gave quite accurate results with an error percentage of 6% -15%. This error rate could be reduced if the data acquisition method was mechanized or automated using Raspberry Pi.

List of students involved:

Sr. No.	Name	Class
1	Arbaaz Khan	SE-CMPN-A
2	Sarita Acharya	SE-IT-A
3	Shreya Gaikwad	SE-IT-A
4	Shruti Ambre	SE-IT-A
5	Suraj Negi	SE-CMPN-A

(Inputs by Mr. Sushant Shetty)

LEARNING AND INFORMATION RESOURCE CENTRE



Initiatives:

- Students may now borrow upto 6 books at a time from the LIRC.
- Renewal of books is facilitated online through WebOPAC.

Achievements:

- Ms. Chinmayee Bhangе completed the Online Course on “Copyright for Educators and Librarians” through Coursera during February – March 2018.
- Ms. Sucheta Prabhudesai participated in a Workshop on “High Impact Presentation Skills” organized by BKC Knowledge Network, Bandra on 16 March, 2018.
- Mr. Raheem Sayyad received the Second Prize for the Best Poem on the occasion of Marathi Bhasha Diwas on 8 March, 2018.

Best Users of the LIRC (January to June 2018)

Sr. No.	Member	No. of Transactions
1	ANTONY ALEX LEENA	147
2	MASCARENHAS RACHEL NOEL JACINTA	140
3	CRASTA RYAN RONALD LEENA	132
4	GUPTA PRADEEP FULCHAND RENU	125
5	HRISHIKESH MAHESH TELANG	123
6	CHAVAN ANKITA JEEVAN SARITA JEEVAN CHAVAN	112
7	CHOVATIYA MEGHA DILIP JYOTI	99
8	MORAES ROSHAL SURESH LILLY	95
9	POOJARY ROSHANI SHIVRAM GUNAVATI	93
10	JAYBHAY SHEETAL SHANTILAL MANISHA	92
11	KOSSAMBE GAURI DATTARAM MINAL	92

(Inputs by Ms. Chinmayee Bhangе)

TRAINING AND PLACEMENT CELL

1. Students visit to Barclays is organized for BE 2018 batch.
2. Soft skill training by GTT in association with Barclays was conducted for BE 2018 batch by External expert of GTT and CFO of Barclays.
3. Session on Overview of latest technologies, Project Methodologies and work environment was conducted for BE 2018 and TE 2019 batch by TCS official.
4. Workshop on Programming Logic was conducted for TE 2019 batch by External expert.
5. Briefing session on MS was conducted for SE 2020 batch by Khateeb Consultancy.
6. Batch of 7 students sent to Harisburg University (USA) for one month internship on AI for TE 2019 batch.
7. There are 45 Companies visited till date and more in pipeline.
8. Our 274 students are placed till date in 2018 batch.

Below are few photographs of activities.

Overview of latest technologies, Project Methodologies & work environment by TCS official for BE 2018 batch



Group discussion session by Alumni for BE 2018 batch



Briefing session on Recruitment Overview for TE students



Capgemini Placement Drive



Capgemini Placement Drive



(Inputs by Ms. Vidya Redij)

NSS Cell of SFIT



Visit to Vanaprasthashram, Bhayandar, A home for Senior Citizens was organized on 13th January 2018 and 39 NSS Volunteers interacted with the Elderly people.

Saluting the Heroes of held on 31st January where the martyred and their families Volunteers took part in organized by Atarva



the Nations- the Soldiers was 2018 at Worli Sports Club, soldiers were commemorated felicitated. Forty Four NSS the event which was Foundation.

Versova Beach Up was held on 17th February 2018 in which our NSS Volunteers helped in cleaning the plastic dumped in the oceans on a regular basis. About 27 NSS Volunteers took part of this event.

Mindset Change a Swachata awareness Campaign was 18th February 2018 at Sagar Kutir Versova. 46 of our NSS Volunteers visited several families of the Varsova community and spoke to them about the importance of cleanliness.



Marathi Bhasha Divas was celebrated on 27th February 2018 with Rangoli at the entrance of the college and Marathi Books Exhibition in the library.

Women's Day was celebrated on 8th March 2018 for the teaching and nonteaching staff of the college. About 86 faculty members participated in it.

Run for Oceans was organized on 16th June 2018 at Varsova Beach by Corporate Social Responsibility of Adidas Group. About 25 NSS Volunteers participated in it.



Library Stock Verification was undertaken from 18th – 25th June 2018 with the guidance of the Library Staff and about 25 NSS Volunteers took part in it.



On the occasion of International Yoga Day about 20 NSS Volunteers took part in the yoga session held at the Mumbai University Campus and about 15 NSS Volunteers participated in the yoga session conducted at SFIT.

(Inputs by Mr. Paul Fernandes)