

2.3.1 Student Centric Methods



Experiential Learning



Course Mini Projects

Various laboratory courses in the revised curriculum include mini/course projects. Students apply and experiment the theory concepts to develop these projects.

Name of the new courses introduced in last 5 years	Program Name	Program code	Course Code	Year of introductio	
DI	EPARTMENT OF COMPU	TER ENGINEER	RING		
Network Programming Laboratory	T.E Computer Engineering (Sem-VI) Rev-2012	3197-10-4	CPL601	2014-2015	
Network Threats and Attacks Laboratory	B.E Computer Engineering (Sem-VII) Rev-2012	3197-10-5	CPL701	2015-2016	
Digital System Lab	S.E. Computer	3197-10-6	CSL301	2017-2018	
Basic Electronics Lab	Engineering (Sem-III)	3197-10-7	CSL302	2017-2018	
Data Structure Lab	Rev-2016	3197-10-8	CSL303	2017-2018	
Analysis of Algorithms Lab		3197-10-9	CSL401	2017-2018	
Computer Graphics Lab	S.E. Computer	3197-10-10	CSL402	2017-2018	
Processor Architecture Lab	Engineering (Sem-IV) Rev-2016	3197-10-11	CSL403	2017-2018	
Operating System Lab		3197-10-12	CSL404	2017-2018	
Open Source Tech Lab		3197-10-13	CSL405	2017-2018	
Microprocessor Lab	T.C. Comenciation	3197-10-15	CSL501	2018-2019	
Computer Network Lab	T.E. Computer Engineering (Sem-V)	3197-10-16	CSL502	2018-2019	
Database & Info. System Lab	Rev-2016	3197-10-17	CSL503	2018-2019	
Software Engineering		3197-10-18	CSDLO6024	2018-2019	
Lab		3197-10-19	CSL601	2018-2019	
System software Lab	T.E. Computer	3197-10-20	CSL602	2018-2019	
Data Warehousing & Mining Lab	Engineering (Sem-VI) Rev-2016	3197-10-21	CSL603	2018-2019	
System Security Lab		3197-10-22	CSL604	2018-2019	
Mini-Project		3197-10-23	CSP605	2018-2019	
DEPARTMENT OF MECHANICAL ENGINEERING					
Camputer aided machine drawing	S.E. Mechanical Engineering (Sem-III) Rev-2012	3197-20-1	MEL305	2013-2014	
Mechanical measurements and control	T.E. Mechanical Engineering (Sem-V) Rev-2012	3197-20-2	MEC502	2014-2015	



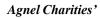
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Business		2407.20.2	NATI TOA	2014 2015	
communication and ethics		3197-20-3	MEL501	2014-2015	
Thermal and fluid power Engineering	T.E. Mechanical Engineering (Sem-VI) Rev-2012	3197-20-4	MEC604	2014-2015	
Mechanical utility system		3197-20-5	MEC703	2015-2016	
Energy Engineering (Elective)		3197-20-6	MEE7013	2015-2016	
Emission and pollution control (Elective)	B.E. Mechanical Engineering (Sem-VII)	3197-20-7	MEE7018	2015-2016	
Total productive maintenance(Elective)	Rev-2012	3197-20-8	MEE70111	2015-2016	
Digital prototyping for product design- I (Elective)		3197-20-9	MEE70112	2015-2016	
Alternative fuels (Elective)		3197-20-10	MEE8028	2015-2016	
World class manufacturing (Elective)	B.E. Mechanical Engineering (Sem-	3197-20-11	MEE80211	2015-2016	
Digital prototyping for product design- II (Elective)	VIII) Rev-2012	3197-20-12	MEE80212	2015-2016	
Manufacturing Science Lab		3197-20-13	MEL505	2018-2019	
Design of Jigs and Fixtures (Elective)	T.E. Mechanical	3197-20-14	MEDLO501	2018-2019	
Press Tool Design (Elective)	Engineering (Sem-V) Rev-2016	3197-20-15	MEDLO501	2018-2019	
Machining sciences and tool design (Elective)		3197-20-16	MEDLO501 2	2018-2019	
Industria1 Automation	T.E. Mechanical Engineering (Sem-VI) Rev-2016	3197-20-17	MEDLO602	2018-2019	
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING					
Analog Electronics-I	S.E. Electronics and Telecommunication	3197-30-1	ETC302	2013-2014	
Digital Electronics .I	Engineering (SEM-III) Rev-2012	3197-30-2	ETC303	2013-2014	
Applied Electronics.II	S.E. Electronics and	3197-30-3	ETC402	2013-2014	
Wave theory and Propogation	Telecommunication	3197-30-4	ETC404	2013-2014	



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Control Systems	Engineering (SEM-IV) Rev-2012	3197-30-5	ETC406	2013-2014
Random Signal and analysis	T.E. Electronics and Telecommunication	3197-30-6	ETC 503	2014-2015
RF Modelling and Antenna	Engineering (SEM-V) Rev-2012	3197-30-7	ETC504	2014-2015
VLSI design	T.E. Electronics and Telecommunication Engineering (SEM-VI) Rev-2012	3197-30-8	ETC606	2014-2015
Image and Video Processing	B.E. Electronics and Telecommunication	3197-30-9	ETC701	2015-2016
Microwave and Radar Engineering	Engineering (SEM-VII) Rev-2012	3197-30-10	ETC704	2015-2016
Satellite Communication and Network		3197-30-11	ETC802	2015-2016
Speech Processing	B.E. Electronics and Telecommunication	3197-30-12	ETE801	2015-2016
Internet and Voice Communication Network	Engineering (SEM- VIII) Rev-2012	3197-30-13	ETC803	2015-2016
Telecomm Network Management		3197-30-14	ETE802	2015-2016
Electronics Devices and Circuits.I	S.E. Electronics and	3197-30-16	ETC302	2017-2018
Digital System Design	Telecommunication	3197-30-17	ETC303	2017-2018
Electronic Instrumentation and Control	Engineering (SEM-III) Rev-2016	3197-30-18	ETC305	2017-2018
Electronic Devices and Circuits.II	S.E. Electronics and Telecommunication	3197-30-19	ECC402	2017-2018
Principles of Communication Engineering	Engineering (SEM-IV) Rev-2016	3197-30-20	ECC405	2017-2018
Electromagnetic Engineering	T.E. Electronics and Telecommunication	3197-30-21	ECC503	2018-2019
Data Compression and Encryption	Engineering (SEM-V) Rev-2016	3197-30-22	ECCDLO 5014	2018-2019
Antenna and Radio Wave Propogation	T.E. Electronics and Telecommunication	3197-30-23	ECC603	2018-2019
Image Processing and Machine Vision	Engineering (SEM-VI) Rev-2016	3197-30-24	ECC604	2018-2019





DEPARTMENT OF ELECTRICAL ENGINEERING					
Utilisation of Electrical Energy	T.E. Electrical Engineering (SEM-VI) Rev-2012	3197-40-1	EEC603	2014-2015	
High Voltage Engineering		3197-40-2	EEE 701	2015-2016	
Analysis and Design of Power Switching Converters		3197-40-3	EEE 702	2015-2016	
Power System Modelling	B.E. Electrical	3197-40-4	EEE 703	2015-2016	
Digital Signal Controllers and its Applications	Engineering (SEM-VII) Rev-2012	3197-40-5	EEE 704	2015-2016	
Advance Lighting Systems	NEV-2012	3197-40-6	EEE 705	2015-2016	
Renewable Energy and Energy Storage Systems		3197-40-7	EEE 706	2015-2016	
Optimisation Techniques and its Applications		3197-40-8	EEE 707	2015-2016	
Flexible AC Transmission Systems		3197-40-9	EEE 801	2015-2016	
Electric and Hybrid Electric Vehicle Technology		3197-40-10	EEE802	2015-2016	
Power Quality	B.E. Electrical	3197-40-11	EEE803	2015-2016	
Smart Grid Technology	Engineering (SEM-	3197-40-12	EEE 804	2015-2016	
Power System Dynamics and Control	VIII) Rev-2012	3197-40-13	EEE 805	2015-2016	
Non Linear Control System		3197-40-14	EEE 806	2015-2016	
Entrepreneurship Development		3197-40-15	EEE 807	2015-2016	
Simulation Lab-I	T.E. Electrical	3197-40-16	EEL401	2017-2018	
Electrical Workshop	Engineering (SEM-V) Rev-2016	3197-40-17	EEL404	2017-2018	
Digital Communication Engineering	T.E. Electrical Engineering (SEM-VI)	3197-40-18	EEDLO6021	2018-2019	
Micro Grid		3197-40-19	EEDL06022	2018-2019	
Advanced Power Electronics	Rev-2016	3197-40-20	EEDL06023	2018-2019	
DEPARTMENT OF INFORMATION TECHNOLOGY					
Digital Design Lab		3197-50-1	ITC302	2017-2018	
ביקונמו בכיוקוו במט		3197-50-2	ITL301	2017-2018	



$\label{lem:Agnel Charities} Agnel \textit{Charities'}$ Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.

Data Structures Lab	S.E. Information	3197-50-3	ITL302	2017-2018
SQL Lab	Technology (SEM-III)	3197-50-4	ITL303	2017-2018
Java Programming Lab	Rev-2016	3197-50-5	ITL304	2017-2018
Operating Systems		3197-50-6	ITC403	2017-2018
Networking Lab	S.E. Information	3197-50-7	ITL401	2017-2018
Unix Lab	Technology (SEM-IV)	3197-50-8	ITL402	2017-2018
Microprocessor Lab	Rev-2016	3197-50-9	ITL403	2017-2018
Python Lab		3197-50-10	ITL404	2017-2018
Internet Programming		3197-50-11	ITC502	2018-2019
Advanced Data				
Management		3197-50-12	ITC503	2018-2019
Technology				
Cryptography &		3197-50-13	ITC504	2018-2019
Network Security Internet Programming				
Lab		3197-50-14	ITL501	2018-2019
Security Lab		3197-50-15	ITL 502	2018-2019
OLAP Lab		3197-50-16	ITL503	2018-2019
IOT(Mini Project) Lab	T.E. Information	3197-50-17	ITL504	2018-2019
Business	Technology (SEM-V)	3197-50-18		
Communication and	Rev-2016			2018-2019
ethics			ITL505	
Advanced Data		2407 50 40	ITDI OFO44	2040 2040
structures and analysis of algorithm		3197-50-19	ITDLO5011	2018-2019
Image Processing		3197-50-20	ITDLO5012	2018-2019
Ecommerce & E-				
Business		3197-50-21	ITDLO5013	2018-2019
IT-Enabled Services		3197-50-22	ITDLO5014	2018-2019
Computer Graphics &		3197-50-23	ITDLO5015	2018-2019
Virtual Reality		3137 30 23	110103013	2010 2013
Software Engineering		3197-50-24	ITC601	2018-2019
and project Mangement Cloud Computing &				
Services		3197-50-25	ITC603	2018-2019
Wireless Networks	T.F. 1-1	3197-50-26	ITC604	2018-2019
Software Design Lab	T.E. Information Technology (SEM-VI)	3197-50-27	ITL601	2018-2019
Business Intelligent Lab	Rev-2016	3197-50-28	ITL602	2018-2019
Cloud Service Design				
Lab		3197-50-29	ITL603	2018-2019
Sensor Network Lab		3197-50-30	ITL604	2018-2019
Mini-project		3197-50-31	ITM605	2018-2019



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Advanced Internet Programming	3197-50-32	ITDLO6021	2018-2019
Software Architecture	3197-50-33	ITDLO6022	2018-2019
Digital forensics	3197-50-34	ITDLO6023	2018-2019
Multimedia Systems	3197-50-35	ITDLO6024	2018-2019
Green IT	3197-50-36	ITDLO6025	2018-2019



Sample list of Mini projects done in Course Data Structures Lab (CSL303)

Group .No	Roll. No.	Name of Student	Project Title	Data Structure used	
	101827	Hudiya Yash	Medical Store	Circular queue	
1	101831	Justin Mathew Mathai L	- Management	using Linked List	
	101839	Meledath Gary Godwin	Widnagement	danig Linked List	
	101832	Kadu Nitish	Process		
2	101838	Mehta Shivam Mansingh	Scheduler	Priority Queue	
	101848	Pulhani Rachit	Scheduler		
	101833	Kakuste Anshuta Jitendra			
3	101835	Kotarkar Anuj Surendra	Placement Cell	Singly Linked List	
3	101845	Pandita Shivalika	- Flacement Cen	Singly Linked List	
	101846	Patil Gauri Sanjay			
	101860	Singh Ashish Dinesh			
4	101864	Verma Varun Vijaykumar	Music Playlist	Doubly Linked List	
	101865	Warekar Zaid Zafar			
	101802	B S Sai Sree			
_	101811	Chavan Shreya Rajesh	Placing Orders	Queue	
5 -	101812	Dange Afrin	in Restaurant	Queue	
	101822	Gupta Chiranya			
	101828	Jason Felix Abraham	College Fest	Doubly Linked List	
6	101836	Kurian Sanmith Binsu	Management		
	101850	Raghuvanshi Ayush	system		
	101852	Ramesh Angela Infanta Jerome			
7	101853	Riya MolRaji	Elevator System	Priority Queue	
	101854	Sankannawar Priyanka Raju			
	101856	Serena Raju	Casial Naturali		
8	101857	Sharma Akshat Devendra	Social Network	Linked List	
	101858	Sherin Shibu	Feed Storage		
	101805	Battina Babykutty			
	101808	Bhagyashree Lakshminarayanan	Encryption of	Lluffman Troo	
9	101815	Dsouza Arnold Ashok	Data	Huffman Tree	
	101816	Fernandes Aryan Agnelo			
	101775	Thomas Joel Biju	Rank		
10	101868	Vedesh	Management	Tree	
	101867	Rahul	System		
	101826	Handa Rhea	Hospital		
11	101829	Jennifer James	Management	Linked List	
	101834	Karakattil Dilrose Reji	System		



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Group .No	Roll. No.	Name of Student	Project Title	Data Structure used	
	101861	Singh Jasbir	Library		
12	101862	Sneha Mary Bency	Management	Linked List	
	101863	Thakur Yukta Pramod	System		
	101810	Jtitn John			
13	101817	Edwin Fernando	Banking System	Linked List	
	101819	Sibin George			
	101830	Jerin John Mathew	NA aliin a	Cinchellinka diliak	
14	101847	Pinto Aldric Ivan	Making Dictionary	Singly Linked List (TRIE)	
	101849	Radley Roy	Dictionary	(TRIL)	
	101837	Kuruthukulangara Julie Jose			
15	101840	Merin Ann Philipose	Travel Agency	Binary Tree	
	101842	Mullick Sudiksha			
	101801	Alwin Jacob		Tree	
1.0	101803	B. Shriram Athreya	File		
16	101804	Bansal Sahil Rakesh	management system in OS		
	101814	Deshmukh Parth	3ystelli ili O5		
	101841	Merwin Samuel Dharmaraj	A to Consolute		
17	101843	Nair Akhil Murukadasan	Auto Complete Feature	TRIE	
	101844	Padamadan Shawn John	reature		
	101809	Bhole Aditi Milind			
18	101823	Gupta Ishika	Council Election	Binary Tree	
	101825	Hanah Susan Zachariah			
	101806	Joseph Benjamin			
19	101813	Dany Poly	Voting System	Circular Queue & Linked List	
	101824	Gupta Pranay Mukesh		LITIKEU LIST	
	101851	Raina Harshul			
20	101855	Sawant Vishadh	Phone Book	Linked List	
	101859	Shyann James			
	101807	Bhagdikar Soumitra			
21 -	101818	Geoferry Michael	Abstract Syntax	Tuoo	
	101820	Goel Eshan	Tree	Tree	
	101821	Gole Siddhant Dnyanesh			
	101866	Aniket Bhalshankar			
22	101869	Shawn Pereira	Family Tree Tree		
	101870	Gargi Raje			



Final Year Projects

Students carry out a thorough research on their area of interest that would help them to undergo a systematic approach in all the phases of developing the major project during final year. Some of the sample major project's pictures are shown below







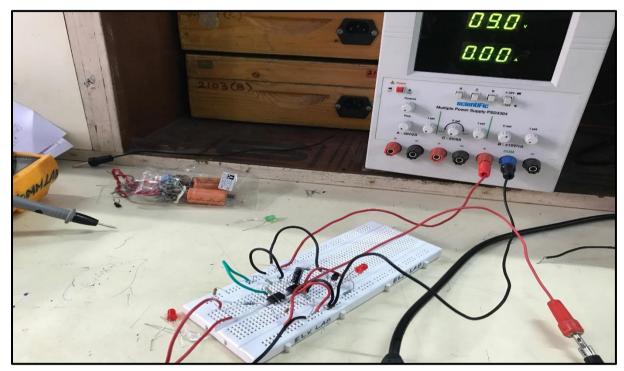


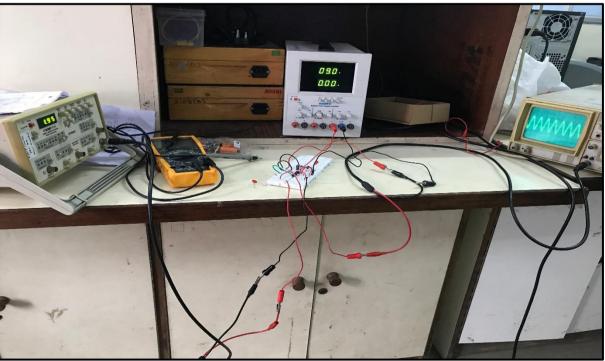


Experimental set-up

Few faculty develop a new experimental set-up in addition to the laboratory experiments creating interest in students to learn more.

Sample experimental Setup for Analog signal and real time speech signal transmission through optical fiber cable.

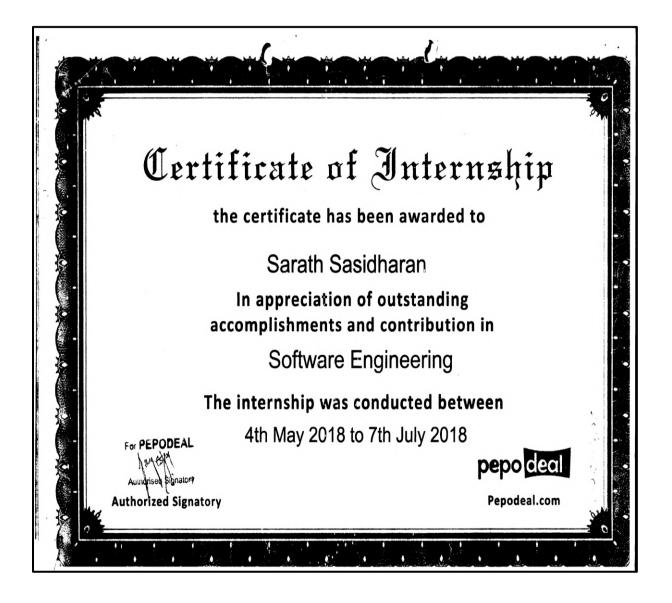






Internships

Students are encouraged to undertake internships that aid them to apply acquired knowledge to real work and gives an experience of working in a company environment. It helps them to master professional soft skills such as communication, time management and also boosts their self-confidence.







CERTIFICATE OF INTERNSHIP

This is to certify that:

Mr./Mrs. Komal Maruti Jagotate

is awarded the

Programme Internship Certificate

On successful completion of internship at Dezignolics for 15 Day's in Html5,Css3,Bootstrap

We found him/ her hard-working, talented and a good team-player. He/she worked sincerely on his/her assignments and his/her performance was indeed as per excellence.

Director (Reshma Salunkhe)

M.: 8080811662 / 63 | Ph.: 022-41318858 | E-mail : Info@dezignolics.com | Website : www.dezignolics.com



Dheeraj Kallakuri

from Father Conceicao Rodrigues Institute Of Technology, Vashi successfully secured Teaching (Robotics) internship at EZ Lock through Internshala - India's No. 1 internship platform.

We wish Dheeraj a great internship experience ahead.

James

Date of certification: 2018-06-30



Sarvesh Agrawal

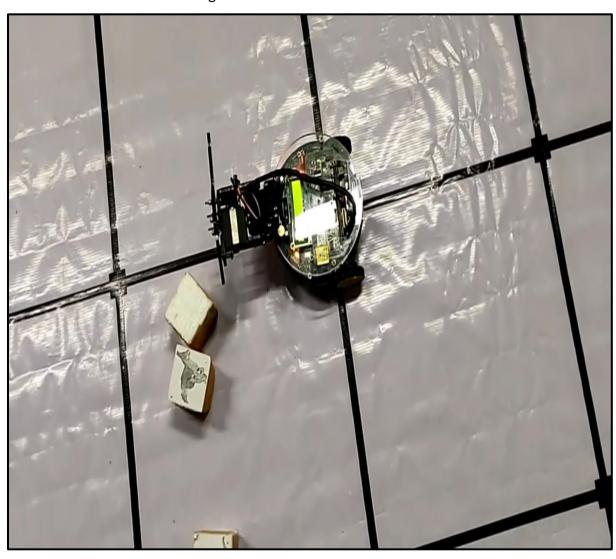
For certificate authorization queries, please write to student@internshala.com.

This is a certificate of selection. Internship completion certificate will be interest by the biline accompletion certificate.

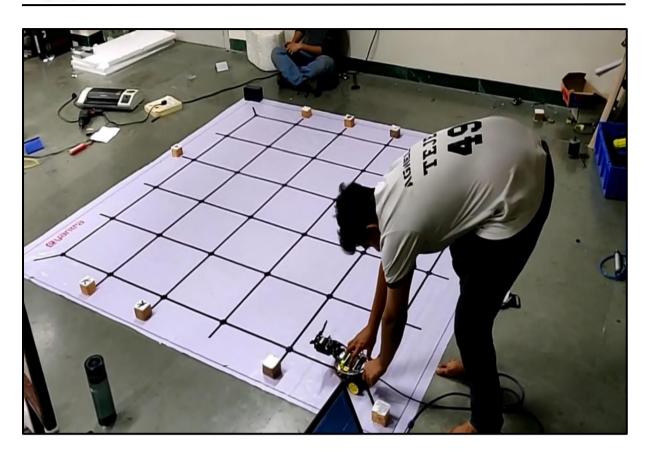


Technical Events

Apart from the above mentioned practices, students take part in various events like Robocon, E-Yantra etc. that bring out the technical potential, promote leadership qualities and inculcate team work among the students.











Participative Learning



Technical competitions

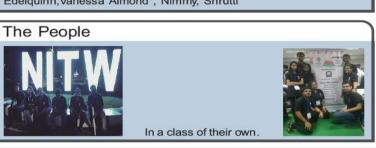
Students participate in various technical competitions such as Smart India Hackathon (SIH), AVISHKAR, HACKEARTH, NSDC, SAE BAJA etc. that help them to learn from the external environment.

Students Achievement 2019

Granular Bits
This team of Final Year
Computer Engineering
students won the st
Prize in SIH-2019. For
this team, the stakeholders were from SUN
Pharmaceuticals Pvt.
Ltd. [*The mentor of
this team, Ms. K.V.
Maitreyi, is also the
ex-student of our institute.]







Phantom Troupe This team of 3rd Year Computer Engineering students, also won the 1st Prize in SIH-2019. Their project was Operational Vehicle Maintenance using Mask R-CNN . [* The Mentors of this team, Mr. Sachin George, and Ms. Vanessa Almond, also ex-students of this institute, and winners of SIH-2018]



purse, one of them threw her bag under a wooden bench. I looked through it and found my purse as well as two others. I grew angry and slapped the woman for stealing my purse. The other pleaded to not hit her as she was pregnant. As soon as I turned, she fled. But the woman, who threw the bag, was still around, "said D'Costa.

Two other women from the crowd came forward and claimed their purses.

"I marched the woman, who threw the bag, to the nearest police chowkie and asked them to register an FIR. But the cops asked me to go to Vashi police station instead of transferring the case," she added.

Officers said D'Costa was hesitant in lodging a complaint. "The woman who D'Costa slapped was not the real culprit. The one who fled was the thief. We will increase patrol in the area to catch the woman who fled," said Sushilkumar Shinde, assistant police inspector.

3-yr-old drowns in water tank at Panvel taluka

Navi Mumbai: A three-yearold boy, Aryan Bhandari, drowned after he fell into an open water tank in Panvel on March 3. The owner of the tank, Prakash Baviskar (27), was arrested on Monday for negligence causing death.

"Baviskar had built a ground-level concrete water tank near Waghilkar chawl in Panvel for his tenants but it had no cover. On March 3, at 3.30pm, Aryan climbed the tank and fell into it. His body was found an hour later," said Bajirao Bhosale, senior inspector. TNN

2 fall to death from Mahape buildings

Navi Mumbai: In two separate mishaps on Sunday, two youths fell to their death in Mahape. Cops said 22-year-old Tirupati Dasar, fell from A-3 building at Millenium Business Park. He was taken to Vashi NMMC hospital but was declared dead on arrival. Meanwhile, Baliram Urav (28), who worked as a labourer at Verma Construction Pvt Ltd building, fell from the fourth floor and succumbed to his injuries. TNN

Vashi student set to prove his tech skills

Indira.Rodericks
@timesgroup.com

arun Chauhan, a twenty-year-old mechanical engineering student of Fr C Rodrigues Institute of Technology, Vashi will represent India at 43rd WorldSkills competition, to be held in Brazil in August.

He was selected for the international competition after winning a series of qualifying

WILL REPRESENT INDIA AT INT'L EVENT

competitions in 2014 and 2015. Chauhan won the final 18-hour competition held in New Delhi last week.

"The first round, comprising 30 students from the western region, was held in Vashi, the second round was held at Bengaluru," he said.

Chauhan was tested for his skills in parts assembling and modelling, animation and design. "At the event in Brazil, I will be tested for designing mechanical components for software provided by Autodesk," he added.

A resident of Kalyan,



COMPETING WITH THE BEST

Chauhan has already secured a job with a software company, once he completes his finals this year. But right now, he is looking forward to the competition and he knows it will be tough. "I am preparing to give it my best," he added.

The world championship, which is held every two years, is the biggest vocational education and skills excellence event in the world.

Participants from all over the world will compete in 19 categories at the world championship. Other categories include fashion designing, brick laying, beauty therapy, jewellery designing, aircraft maintenance and car painting.

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Technical Paper Presentations

They take part in various Technical Paper Presentations (TPPs) and Paper Publications in reputed journals and conferences improving their technical writing and communication skills.

IEEE sponsored: ICNTE, ICCBI

NIT/International conferences: BTBL, NCE, ICFEAST, NCMWVC, ICSCCC, ICETECT, ICATE,

NCRTCFIF

Journal Publications: IJIET, DF4N6J, IJTRD, IRJET, IJRSI, IJETAE, IJCSDF, IJSRD





Professional society

Departments conduct seminars under professional society once in a semester, where eminent personalities from industry are invited to deliver talks on the latest emerging technologies. Various professional bodies are IEEE, CSI, and ISTE etc. Department wise students' Association are as follows

1. Computer Engineering Department

ACESS (Agnel Computer Engineering Student Association)

Professional body:-CSI(Computer Society of India)

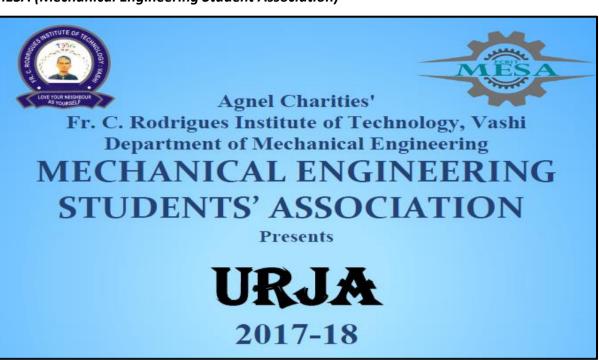




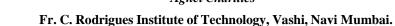


2. Mechanical Engineering Department

MESA (Mechanical Engineering Student Association)









3. Electronics and Telecommunication Engineering

ETSA (Electronics and Telecommunication Engineering Student Association)

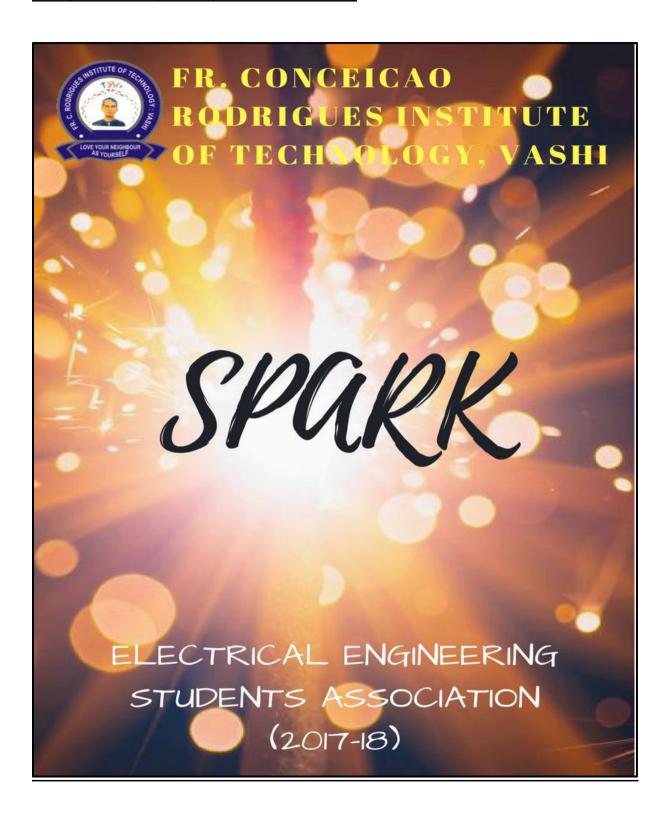






4. Electrical Engineering

EESA (Electrical Engineering Student Association)





5. Information and Technology

AITSS (Association of Information Technology Students Symposium)



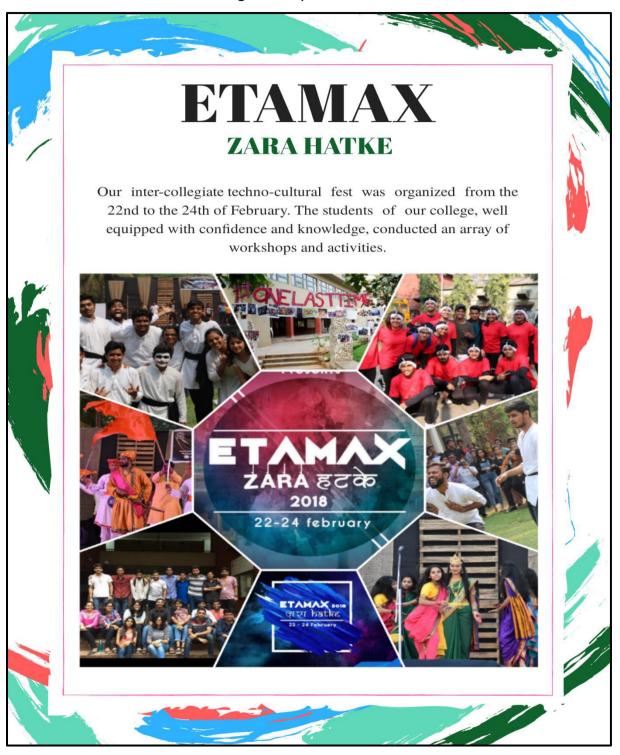






Extra and co-curricular activities

Students actively organize and participate in extra and co-curricular activities conducted at institute level The various events organized by students are FACES and ETAMAX



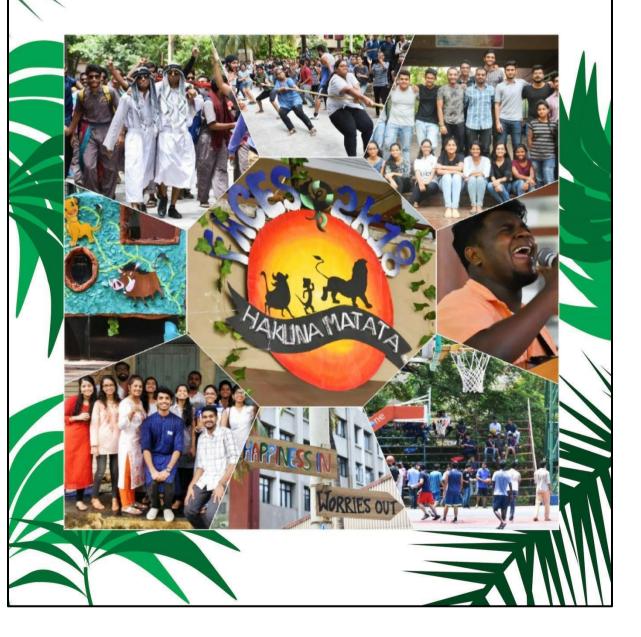






10.11.2018 - 12.11.2018

Our cultural fest FACES, a ray of hope and a stress buster from all the assignments and tests for the students of FCRIT marked September this year.



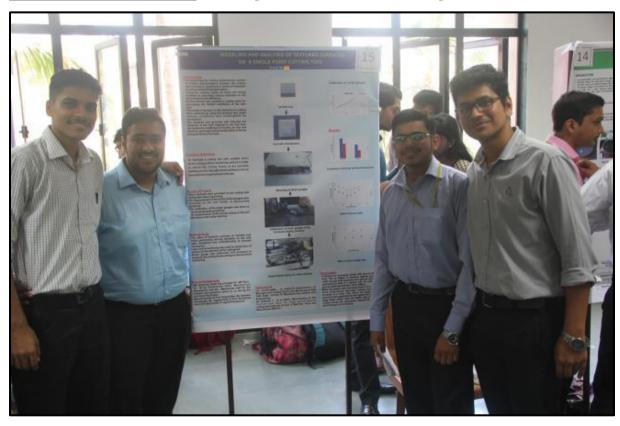




Flip Classroom methodology help in active participation of students in learning.



<u>Project poster presentations</u> encourage students' creative thinking.





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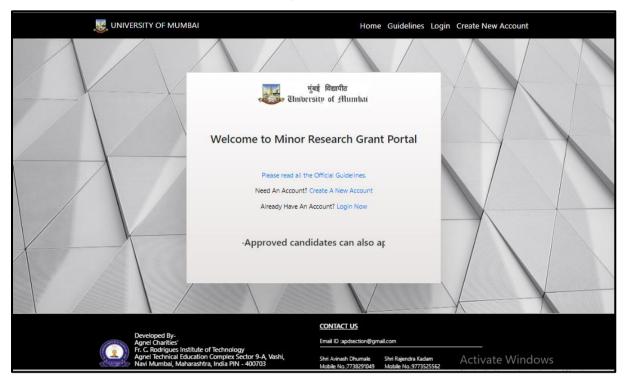
Problem Solving Methodologies



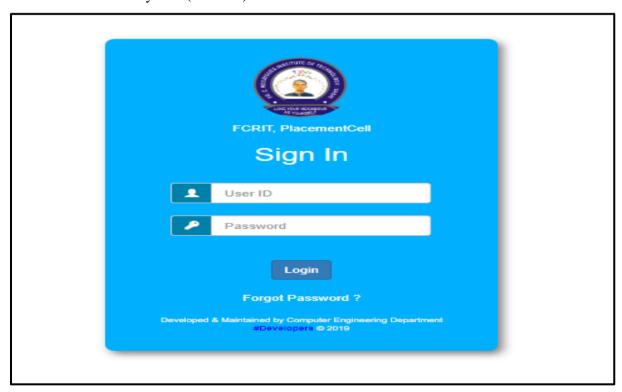
Need based projects:

Students are encouraged to work on need based projects. Many need based projects are developed and deployed by students.

o Minor Research Grant for University of Mumbai



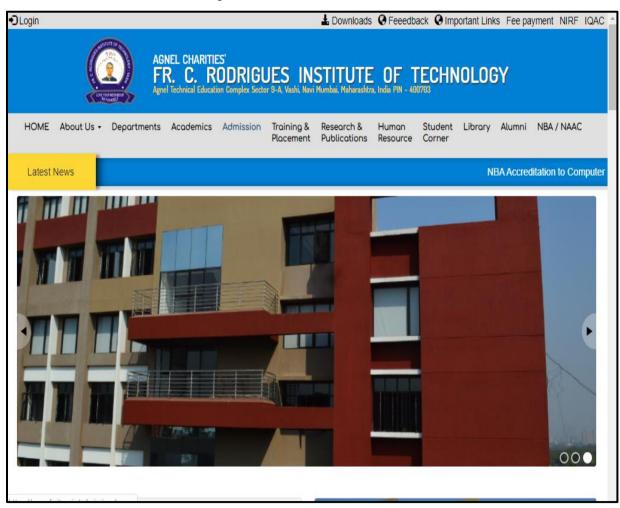
o Placement System (2018-19)







o Institute Website Development (2017-18)





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Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.

o Students Portal (2016-17, 2017-18)



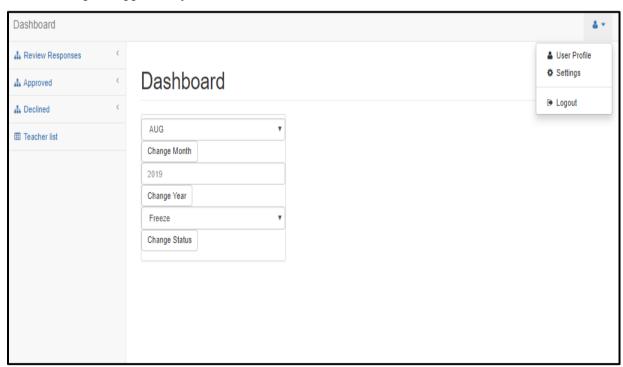




o e-conf: A Conference Management Tool (2017-18)



o Stipend approval system (2017-18)





Agnel Charities'

Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.

o Exam cell System (2015-16, 2016-17)





- o Students Registration and payment system (2016-17)
- o Library Management System (2016-17)