



**VIVEKANAND EDUCATION
SOCIETY'S**

INSTITUTE OF TECHNOLOGY

Department of Humanities and Applied Sciences

2019-20

The Department of Applied Sciences and Humanities teaches and promotes practical aspects of Applied Sciences and Humanities to build a solid foundation as part of the Engineering Education. It plays an instrumental role in the life of students aspiring to be engineers. This department nurtures the first year students and gradually they are initiated and introduced to the basic requirements of an engineer. The department equips them with both, scholastic knowledge and practical experience. It is this integration that makes engineering critical to successful industrial innovation. The department has also introduced the Awakening the Scientist Program, where students integrate scientific principles with practically oriented research, which in turn, create ways of acquiring new knowledge in themselves

Student Activity

Induction Programme for First Year

As per AICTE new syllabus 2019-20 an induction program was organized for first year students exclusively for ten days from 1 to 10 August 2019. The sole objective of this orientation program was to make the students comfortable with college environment and hone their various skills. The induction program commenced with an orientation session by Mr.Vivek Umrikar,HOD Humanities and Applied Sciences where had welcomed all the students and their parents for joining our esteemed institution. It was followed by sessions taken by each department for the students of their respective branches where they shared their departmental activities and scopes. The entire

induction program was organized and conducted by the diligent professors of first year.

A diagnostic test was conducted for all the students who had less than eighty percentile.

For holistic development of students a Sahaj Yoga session was also conducted for all the students which will help them to manage their stress in their busy schedules. The VESLit Literary Circle has also conducted various literary activities to sharpen their soft skills. Motivational lectures were also taken by eminent speakers to enlighten the young minds. The students were also acquainted with the staff and the labs of their respective departments. They say a healthy mind resides in a healthy body. To make our students physically fit various sports activities were conducted by Sports Council of the College. A rangoli competition and Music session were also organized by Cultural council and Music council of the college, where students have given free play to their creativity .

Some of the activities were continued throughout the semester along with the regular curriculum. The main emphasis was on Universal Human Values as without ethics and values no matter who you are the chances of real success in life are meagre. It is often observed that nowadays people are forgetting their basic values so to inculcate and reinforce these human values various mind boggling lectures were conducted. To polish their creativity various activities were conducted where students were compelled to think out of the box and give a free play to their innovative thinking.





Virtual Lab For Chemistry.

Virtual Labs project is an initiative of Ministry of Human Resource Development (MHRD), Government of India under the aegis of National Mission on Education through Information and Communication Technology (NMEICT).

To Establish Virtual Lab for chemistry Blender Software is used which is the free and open source 3D creation suite. It supports the entirety of the 3D pipeline—modeling, rigging, animation, simulation, rendering, compositing and motion tracking, even video editing and game creation.

The Faculties Dr. Maya bhat and Dr. Keya Doshi from Department of Humanities and Applied Sciences , and Mrs. Ruchi Rautela and Mrs. Indira Bhattacharya from Department of MCA had organised a workshop on Blenders Software which was conducted on October 12 2019 by Satyajeeet Sahu,an MCA 11 Student along with some second year students of engineering for selected 33 first year students where they were given hands on experience of how to establish Chemistry Virtual Lab .This project will continue for next semester where students will complete their assignment.

Staff Activities

Seminars/Workshops/Orientation Attended:

Faculty: Dr. Keya Doshi, Mr. Mahesh Singh Adhikari

1) Attended Faculty Development Programme (FDP) for Student Induction Programme for AICTE approved Institutions at A.P shah Institute of Technology, Thane, from 6/6/2019 to 8/6/2019

2) Attended Faculty Development Programme (FDP) for Student Induction Programme for AICTE approved Institutions -UHV Components at A.P shah Institute of Technology, Thane, from 18/6/2019 to 24/6/2019



Faculty: Dr. Keya Doshi, Mrs. Netto Mertia

Attended AICTE-ISTE sponsored one week STTP on "Application of Applied Mathematics and Recent Trends, Techniques and Use of ICT tools in Teaching Applied Mathematics" organized by RGIT college Andheri west from 1st July to 5th July 2019



Faculty: Dr Keya Doshi

Attended the Orientation Programme on 2019-20 syllabus of Engineering Mathematics-I and II at RAIT, Vashi ,Navi Mumbai on 21/9/2019

Faculty: Dr Maya bhat

1)Attended the meeting as a Resource Person of AICTE Revised syllabus formation 2019 of Engineering Chemistry I and II at SK somaiya Engineering college sion. 21/5/19

2)Participated asResource person at orientation program on the revised syllabus 2019 of Engineering Chemistry of First Year Engineering Organised by Terna Engineering College Nerul on 18/9/19

Faculty - Dr Maya Bhat and Dr Barnali Saha

Awarded certificate of appreciation for their contribution of article in Gyaan Vistaar by VES on 12/10/19 (on the occasion of world students day)

Faculty Dr Maya Bhat

Participated as a Resource person to contribute an article writing in Marathi Vishwa- Kosh at ICT Matunga 31/8/19

Faculty Dr. (Mrs.) Barnali Saha

1. Presented a poster on ‘Genetic Algorithm for Heterogeneous Vehicle Routing Problem’ at Indian Women and Mathematics Annual Conference held at IIT, Mumbai from 10th June to 12th June, 2019.



2. Attended QIP sponsored short term course on High Performance Computing and Data Engg. at IIT, BHU, Department of Computer Science and Engg from 24th June to 29th June,2019.



Dr Shashwati Roy Majumder presented a paper entitled, "Porous media: Sample modelling and characterization" in the National Seminar on "Physics at surfaces and interfaces of soft materials(PSISM-2019)" during 26-27th September 2019, held at Department of Physics, Jadavpur University, Kolkata.

Dr Shashwati Roy Majumder has attended the Physics Teachers' Orientation for the revised Engineering Physics syllabus on 25th September 2019 at Shah and Anchor Kutchhi Engineering College, Mumbai.

NPTEL Course

Dr.Sushil Dhuldhhar successfully completed a course on **Body Language** with **Elite Certificate** on Body Language from IIT Roorkee.

Dr. Pooja Kundu successfully completed a course on **Body Language** with **Silver Medal** on Body Language from IIT Roorkee.

Mrs. Ramya Tirumalasetti successfully completed a course on **Engineering Mechanics** with **Elite Certificate** from IIT Madras.

Paper presented

Mr Ravi Shankar has present a paper in National Conference on Stochastic Differential Equations and Application at IIST, Trivrn drum.

Title: Risk Sensitive Portfolio Optimization with an Illiquid Asset having Random Liquidation time.

Paper / Book Published

Dr. Sushil Dhuldhhar has presented a paper in National Conference on *Re-imagining the Margins: New literature & Alternative Marginalities* on 5 and 6 March 2019, in SNTD Women's University, Mumbai.

Dr. (Mrs.) Barnali Saha published paper on the topic on "Optimizing generalized Capacitated VRP using ASA" pg 527-541 , Springer Advances in Intelligent Systems and Computing Series , Vol 990, October 2019.

Dr. (Mrs.) Barnali Saha submitted her Phd Thesis on ' Heuristic Methods for Heterogeneous Vehicle Routing Problem' on 22/02/2019 and appeared for Open Defence on 27/08/2019.



**Ph. D degree awarded to her by Institute of Chemical Technology, Mumbai on
11.10.2019.**

Other Activities

- **Mr. Vivek Umrikar, Dr. Pooja Kundu, Dr. Sushil Dhuldhhar and Mr. Vijay Shejwalkar successfully organised *A Beach Cleaning Drive* on 25 August 2019 on Dadar Beach with Jay Foundation. 50 Kg of plastic was collected and sent for recycling.**



- **Mr. Vivek Umrikar, Dr. Pooja Kundu and Dr. Sushil Dhuldhhar along with entire Humanities and Applied Sciences Department organised a *Tree Plantation Drive* on 3 October 2019 at VESIT Ground in which fifty trees were planted.**



- **Dr. Pooja Kundu and Dr. Sushil Dhuldhhar along with SORT organised a *Say No to Plastic Drive*. The Plastic Waste Elimination drive was conducted in our college on 30th September 2019. The prime objective of this campaign was for the students to grasp the impact an individual can create on our planet earth. We managed to collect a whopping 200 kg of plastic which was sent for recycling.**



- **Dr. Sushil Dhuldhhar along with his team (Unnat Bharat Abhiyan by Central Government Project) visited Ambiste village in Palghar district and conducted a survey of the village to find out concrete solution to the problem faced by the villagers. They have also created an awareness among the villagers about the harmful effects of plastic.**



- **Dr. Pooja Kundu alongwith his team (Unnat Bharat Abhiyan by Central Government Project) visited Amgaon and conducted a plastic elimination drive, tree plantation drive, sessions on good and bad touch and women hygiene. Toys and clothes were also donated for the children of school. They have also done a detailed survey so that logical concrete solutions can be given to the problems faced by the villagers.**



Dr Maya Bhat and Mr Vijay Shejvalkar had organised the Innovation Week for First year Engineering students on the occasion of Dr Abdul kalam's birthday for IIC. The competitions such as Poster, Essay writing and Shelling out innovative ideas were conducted and certificates are distributed for winners (12/10/19)

