Vidya Vikas Education Trust's
Universal College of Engineering
(Accredited with "B+" grade by NAAC)

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Sept 19

COFFEE & CODE;

An initiative by the Department of Computer Engineering.

SEE INSIDE

VISION

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

MISSION

- To groom the students to participate in curricular and co-curricular activities by providing efficient resources.
- To motivate the students to solve real-world problems to help the society grow.
- To provide a learning ambience to enhance innovations, team spirit and leadership qualities for students.

"The true teachers are those who help us think for ourselves"

Dr. Sarvapalli Radhakrishnan

Designers : Mr. Purvesh Gosalia, Mr. Keshav Shrivastav,
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Faculty : Mr. Sridhar Iyer, Mrs. Hezal Lopes, Ms. Apurva Chaudhari

Winners at the 52nd Youth Festival

This year Universal College of Engineering had participated in the Mumbai University's 52nd Cultural Youth festival competition. The competition witnessed enthusiastic performances by our students from various branches in thirty unique events. Among them, our college made it's achievements in three different events and got qualified for the next round.

Our best wishes are with the winners who are now busy preparing for the Inter-Zonal round in their respective events held this September.

Winners of the Zonal Round

S.No	Name of the Student	Prize	Event
1	Ms. Vaishali Naik (TE Comps B)	2nd Prize	DEBATE
2	Mr. Ayush Shetty (TE Comps B)	2nd Prize	DEBATE & Story Telling
3	Mr. Amit Gupta (BE Comps A)	4th Prize	Clay Modelling

Workshop on "Understanding Self and Harmony in Family"

TOPIC	Human Values topic **"Understanding Self and Harmony in Family"**
SPEAKER	Mrs. Vishakha Shelke
DATE	**27/08/2019**
AUDIENCE	(FE) Students in their Induction Program

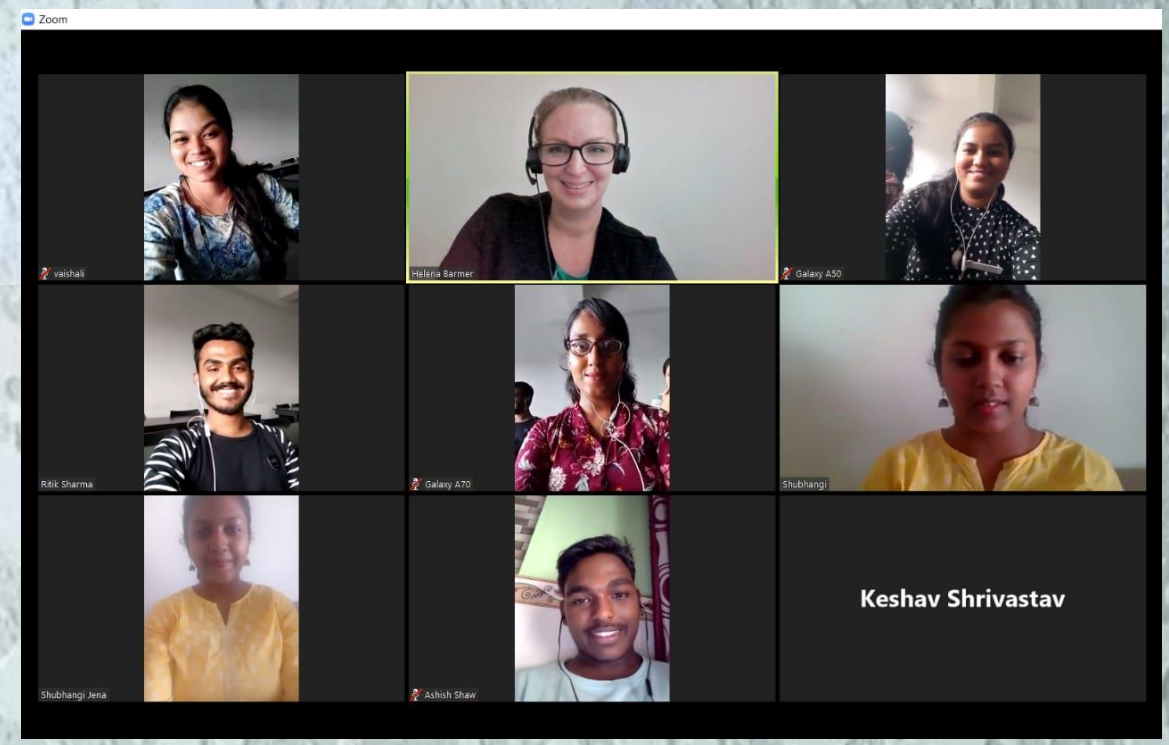
The session started with understanding the concept of **Happiness**. According to Mrs. Vishakha Shelke, happiness is something generally linked by us with physical facilities required by ourselves but in reality, our body needs nothing external for happiness. The importance of understanding the continuous happy state of mind, preconditioning of the mind, and Natural acceptance is explained to students with the help of audio-video mediums. As Mrs Shelke stated ***"Natural acceptance is always denied by our self (I)"*** so some ideas were shared to improve student's natural acceptance mind set. Further in the session, the importance of harmony in the family is discussed with the help of videos related to the same concept. Concepts such as spending time with family, respecting each other to maintain harmony in the family were shared with the students. The interactive session was concluded with the realization of the importance of these human values for balanced and stress-free life.

Webinar by "Mrs Helena Barmer"

TOPIC	Webinar
SPEAKER	Mrs **Helena Barmer**, a senior engineer based in **Sweden**.
DATE	**28/08/2019**

The webinar was organised to encourage students to explore career opportunities in drone technologies and robotics. Apart from that the webinar was also served as counselling session. Mrs Barmer patiently attended every student's question and answered them elaborately. The webinar took place on video calling app, **Zoom**. The webinar was from 3:50 pm till 4:40 pm.

The questions asked were on wide ranging topics such as career, latest techs trends, learning opportunities, time management etc. She answered each and every question with utmost sincerity. Her talks were practical and each lesson was from experience. She took a technical job on a ship at the start of her career, facing criticisms from her family who later came around. She is now going to pursue her Master's degree, along with carrying out her other projects.



Seminar Mr. Shubham Gupta

This August IEEE UCoE hosted Mr Shubham Gupta, IEEE region 10 Bombay section sub-head authority member, for a presentation and seminar on IEEE membership benefits and career opportunities. The seminar saw more than 200 attendees from both second and third year students of computer engineering stream, senior faculties and IEEE core committee as well as members.

The event was organised to encourage students to participate and explore the benefits of IEEE membership and reasons to opt for one. The various experiences shared by Mr Shubham Gupta also made the event remarkable, establishing a common ground to connect with student. He revealed the gravitas of his position. He has been one of the first members of IEEE Bombay section. The seminar started with Mr Gupta's elaborative and impressive introduction. Once on the podium, Mr Gupta shared some anecdotes of his daily life and the impact it has made on him.Once establishing a common ground to connect with students, he revealed the gravitas of his position. He has been one of the first members of IEEE Bombay section.

He is also an entrepreneur and leads his own IT Startup.

His certain and charming way of speaking engaged everyone. He described the organisation pattern of IEEE in various sections. He shared videos of IEEE activities, competitions and motivational testimonies of some patrons. The seminar ended with felicitation of Mr Gupta.

UN's RIO+24 Program

The RIO+24 Program is a part of the prestigious RIO Program conducted by Indian Astrobiology Research Centre's Educational Wing that is connected with the United Nations. RIO+24: War & Peace builds upon the prestigious legacy of previous RIO+ short courses.

The opinion-based question sought to encourage discourse amongst the young citizens of the world by understanding and sharing their point of view. The test results granted various students grades based on their performance. The participants have received International Certificates under Volunteering and Humanitarian Activities that support students' profiles as well. A total of 50 students had participated for the **All-Asia** program and from our institution, **Ms Deesha Gawand** was awarded a medal of recognition for her outstanding performance.

Visit To Know More: https://un.iarc.res.in/program/rio/

Alumni Session on Tableau

SPEAKER	Ms. Shubhangi Jena

Adding to the string of highly enthusiastic activities being organised every week IEEE UCoE along with WIE organised a “girls only” session on Tableau by Miss Shubhangi Jena. The session saw more than 30 attendees from both second and third year students of computer engineering stream, senior faculties and IEEE core committee as well as members.

The event was organised to familiarise the girls with the working of Tableau. Tableau is a powerful and fastest growing data visualization tool used in the Business Intelligence Industry. It helps in simplifying raw data into the very easily understandable format. The various experiences shared by Miss Jena also made the event remarkable. The Seminar was from 9:30 am till 12:00 pm followed by a Q & A session of 15 minutes. The session was then progressed with a hands on working of Tableau with subsequent explanation from Miss Jena. One of the most prominent features of the session had to be the liveliness of the attendees.The session can also be declared as a success because of the smooth management by WIE and IEEE members.

The seminar then ended successfully with the felicitation of Miss Shubhangi Jena.

Tech Talks

WIE | IEEE UCOE under Bombay Section on 23rd August 2019 kick started a Tech Talk series with school children to extend their contribution to the WIE STAR program. The STAR program that stands for **Student-Teacher and Research Engineer/Scientist (STAR) Program** aims to address the growing concern that young age girls are discouraged from pursuing a career in STEM. The school they collaborated with was Holy Paradise High School located in Mumbai Suburbs. The idea to kickstart this program under IEEE UCOE was initiated by their Founding Chairperson of WIE Affinity Group and WIE Member, Ms. Shubhangi Jena. The session/series as Shubhangi calls it is **"Tech Talks"** that involved a variety of topics from how to ask better questions to how we can contribute to creating an Inclusive Tech Community if females are encouraged and supported enough and how they too can get started in coding or developing technological projects at this age.

During the session, Ms. Shubhangi also shared Scholarship Opportunities that these young students can apply for and also a list of online platforms that are designed for students and how these young minds can leverage to start the process of "learning". The session culminated with the students sharing their amazing ideas on the types of apps they want to create to solve problems and asking questions on how they can start coding or what steps are required to pursue a career in STEM. The interactive session garnered some amazing responses and ideas from the students for which they were given WIE goodies as a form of encouragement.

Youngest AI Developer

MUST READ

How this self-taught 14-year-old kid became an AI expert

Though he first caught the attention of IBM at age 11, Bakshi's rise in the tech industry began much earlier. While peers were stacking Legos and playing make-believe, a five-year-old Bakshi was learning how to code.

"It was so fascinating to me how computers could really do anything," Bakshi tells "I wanted to know what goes on behind the back-end and see how you can control the computers and tell them what to do."

The Indian origin nerdy kid from Canada had no time to worry about completing his homework or playing cricket as he was busy trying to solve the healthcare problems being faced by a disabled girl. Tanmay Bakshi's father, Puneet is a software developer and his family moved from India to Canada, a year after Tanmay was born. At the age of five, Tanmay started coding in computer languages. He said that he felt that computer as a toy and coding is like a game at that age. He learned programming languages and practicing code continuously from that age.

After Bakshi moved into the world of programming, there was looking behind. When he was 8, he designed his first application. He had released his first IOS app, called 'tTables,' that helped kids learn multiplication tables at the age of nine. At 12, Bakshi became IBM Watson's youngest programmer, even finding out a bug in the system. Soon after that, he launched YouTube video **'Tanmay Teaches'** designed to teach budding coders the tricks of the trade. The channel has 22,000 subscriber base and 144 videos. He teaches programming, computing, algorithms, science, maths, IBM Watson.

BOOKS written by Tanmay

1. HELLO SWIFT !!
2. WATSON Currently on Work

Worked On:

Story of an Indian Hacker

Recently an Indian Researcher ***'Laxman Muthiyah'*** found another Instagram flaw which could allow a hacker to hack Instagram account without the user consent permission. Let's first have a look at the previous hack of Laxman which could allow him to hack any Instagram account in just within 10 minutes. He stated in his blog "Instagram forgot password endpoint is the first thing that came to my mind while looking for an account takeover vulnerability" . While he was testing the forgot-password endpoint he found no flaw in Instagram web-interface where it was a link-based recovery but the mobile version of Instagram was not so secure.

After several testing, Laxman found out that the passcode could be found out using brute force attack even if there is a rate-limiting. He noticed that the rate-limiting can be overcome by two methods: the absence of IP blacklisting and a race condition. But it was not as easy as it sounds as the passcode get expires in ten minutes. For that Laxman had to use 1000s of IP. For finding such serious vulnerability the Laxman was rewarded with **$30000** bounty.

Now let's see his recent research. Laxman recently discovered another flaw which was threatening million Instagram accounts. This security flaw was similar to the previous flaw which he found out for Instagram but with less severity. He stated in his blog that "device ID is the unique identifier used by Instagram server to validate password reset codes. When a user requests a pass code using his / her mobile device, a device ID is sent along with the request. The same device ID is used again to verify the pass code." Device Id is a randomly string generated and during his research he found out it was possible to request passcodes for multiple accounts on the same devices. In other words, it was possible to link the same Device ID to multiple passcodes for separate accounts. Thus, with the increasing number of passcodes requested, an attacker increases the probability of successful account hacks. Laxman said that "if you request pass code of 100 thousand users using the same device ID, you can have a 10 Percent success rate since 100k codes are issued to the same device ID. If we request pass codes for 1 million users, we would be able to hack all the one million accounts easily by incrementing the pass code one by one." Eventually, an attacker can achieve a 100% success rate for the attack by requesting one million passcodes from the same device. There was very less possibilities of this hack but still it was a serious security flaw and even though this hack was with less severity Laxman was rewarded with **$10000** bounty.

Visit To Know More: https://bit.ly/2lKuMS4

“When we think we know, we cease to learn”

Dr. Sarvepalli Radhakrishnan was a great person who later became the first Vice President of the India as well as second President of the India. He was also a good teacher, philosopher and author. His birthday is celebrated every year in India on 5th of September as the Teacher’s Day by the students. He was born on 5th of September in 1888 at Tirutani, Madras in a very poor Brahmin family. Because of the poor economic status of his family he studied with the support of scholarships. He got his early education from Gowdie School, Tiruvallur, Lutheran Mission School, Tirupati, Voorhee’s College, Vellore and then Madras Christian College. He was very interested in the Philosophy and completed his B.A. and M.A. degrees in Philosophy.

At the Madras Presidency College, he was assigned as an assistant lectureship in 1909 after completing the MA degree.

He had mastered the classics of Hindu philosophy such as Upanishads, Brahmasutra, Bhagvad Gita, commentaries of Sankara, Madhava, Ramunuja, etc. He was also well familiar with the Buddhist and Jain philosophy as well as philosophies of Western thinkers. In order to deliver lectures on the Hindu philosophy, he was called later to the Oxford University. Through his many hard efforts, he became able to put the Indian Philosophy on the world map. Later in 1931, he got selected as the Vice Chancellor of Andhra University and Vice Chancellor of Banaras Hindu University in 1939. He also appointed as ambassador to UNESCO in 1946 and ambassador to Soviet Union in 1949. Later he became first Vice-President of the India in 1952 and awarded Bharat Ratna in 1954. After serving the country for two terms as the Vice-President of India, he became President of India in 1962 and retired in 1967. After serving the country through his great works, he died on 17th of April in 1975.

Visit To Know More: https://bit.ly/2lQnk7P

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