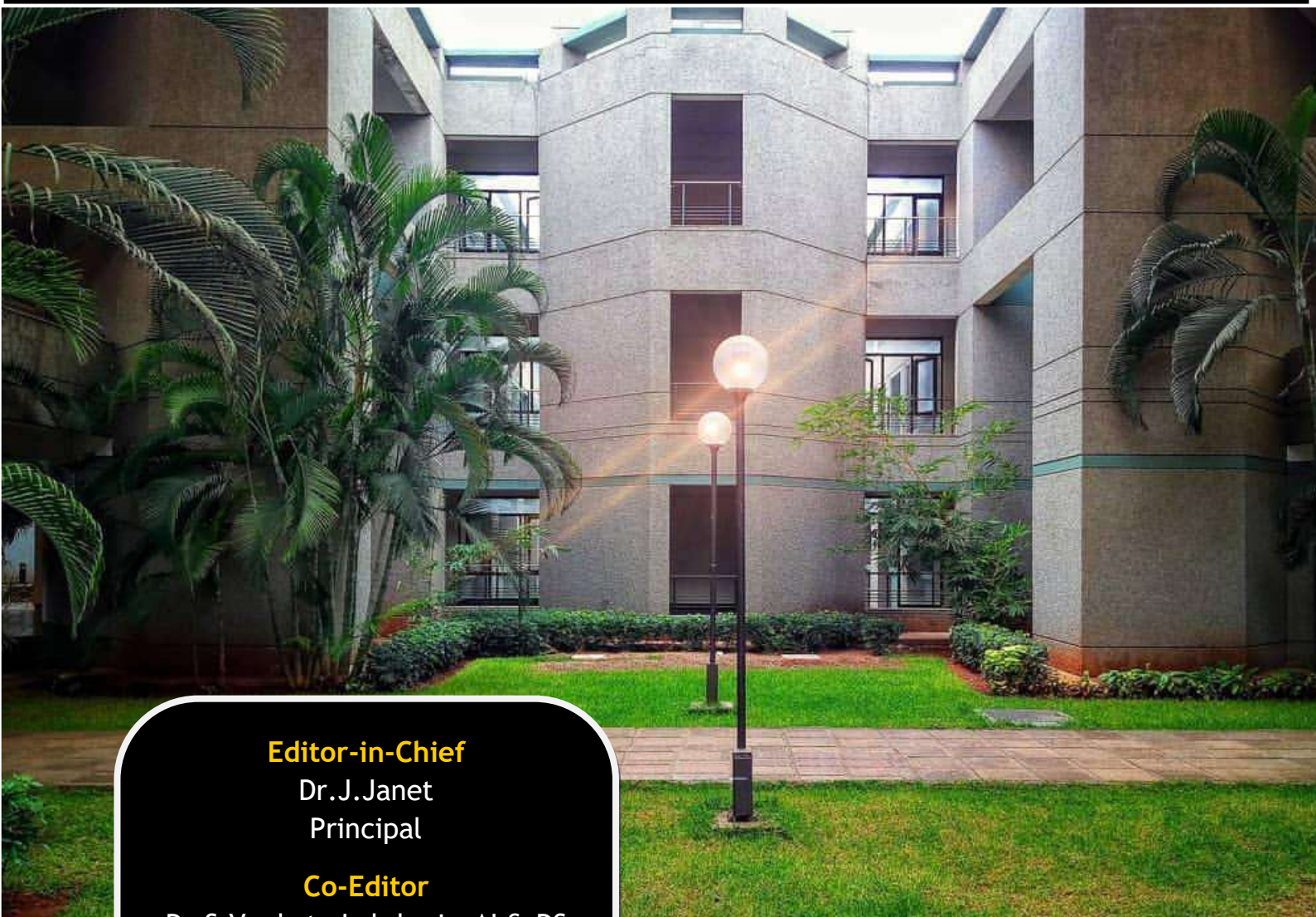


# SKCET Buzz



**16<sup>th</sup> July - 22<sup>nd</sup> July 2022**



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Dr.J.Janet  
Principal

**Co-Editor**

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## INSTITUTIONAL ACCOLADES



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## SKCET | IIC BEST PERFORMER AWARD



IIC Regional Meet was organized by the Ministry of Education's Innovation Cell at Sathyabama Institute of Science and Technology on 21.07.2022. Dr.P.AshokaVarthanan, HoD,Mech, Dr.R.Soundararajan and Dr.K.P.Yuvaraj faculty members of Mechanical Engineering participated in the meet. Dr.S.Balakrishnan, HoD, CSBS participated in the IIC, IPR, ARIIA and NISP sessions of the regional meet. The best practices of IIC – SKCET was displayed at the event. All the best practices were well appreciated by the expert members from various Institutions and was adjudged as the "Best Performer" in the poster contest. The award was given by Mr.DipanSahu, Assistant Innovation Director and Ms.Selvarani, SRO of Innovation Cell.



## HACKATHON ACCOLADES



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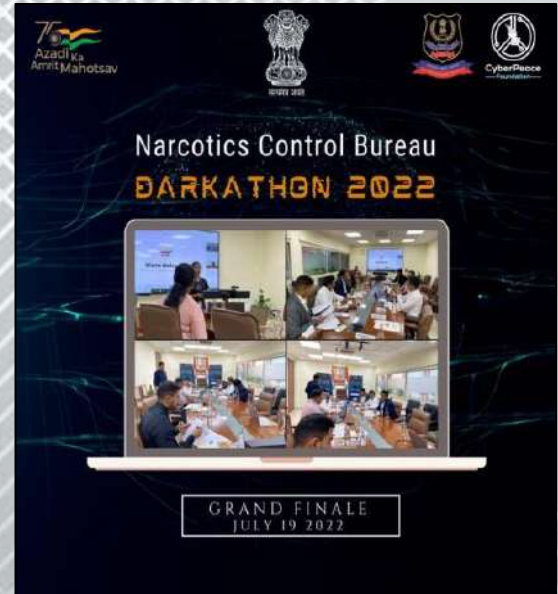


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## CSE & M.TECH | DARKATHON 2022



Student teams from the Department of **CSE** and **M.Tech CSE** have been shortlisted among the **Top 15 teams** in **Darkathon 2022 - grand finale** held at New Delhi on 19.07.2022 organized by Narcotics Control Bureau (NCB). This hackathon focused on finding solutions to counter drug traffick through darknet across the globe. Our student teams provided a solution based on crawling of darkweb to identify the catalog darknet markets selling drugs with a mechanism that automatically add new markets and drop inactive ones.

### Team 1:

#### Project Title- Dark cops

F. Prithika Andrea Angelina | CSE  
H. Aswathy III CSE  
K. G. Shametha IV CSE

### Team 2:

#### Project Title – Dark Scrape

T. Kumaraguru IV CSE  
Samuel Wycliffe IV CSE  
T.G. Bhuvanesh III M.Tech CSE

### Mentors:

**Dr. J. Janet – Principal/SKCET**

**Ms. A. Priya- AP/CSE**



## INSTITUTIONAL EVENTS



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## SKCET | LAUNCH OF SWACHH BHARATH MISSION



***"When you refuse to reuse, its the earth you abuse"***

SKCET along with Coimbatore Corporation and AIM NGO Coimbatore conducted a campaign on **Solid Waste Management** for the **Third** year students.

### Highlights:

- Need of keeping surrounding clean
- Duty of each and every one to make this nation clean
- Awareness on solid waste management
- Separation of wastes into bio degradable and non-bio degradable



# SKCET Buzz



## EVENTS



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## CIVIL| OUTSIDE CLASS LEARNING EXPERIENCE



**First** year students from the Department of **Civil Engineering** visited Stadium Construction site in SKCET campus as a part of of Outside Classroom Learning Experience for the subject "**Architectural Planning and Building Drawing**".

### Key Learnings :

- The design requirements and details of the stadium ( Gallery Arrangement, Synthetic turf, Drainage requirements)
- Earthwork, Formwork for concreting, scaffolding, bar bending works, concreting process, and importance of curing
- Safety practices adopted at the site.
- Interpreted the drawings on-site and how they got translated into buildings.



## IT | HOD ADDRESS



Dr. N. Susila, HoD, IT welcomed the Pre - final year students of IT Department for the new academic year 2022-2023.

### Key Discussion Points:

- Class Attendance and Discipline
- Career Guidance and Placement Opportunities
- Importance of Bootcamp, T1 & T2 Training Classes
- Resume preparation
- Internship



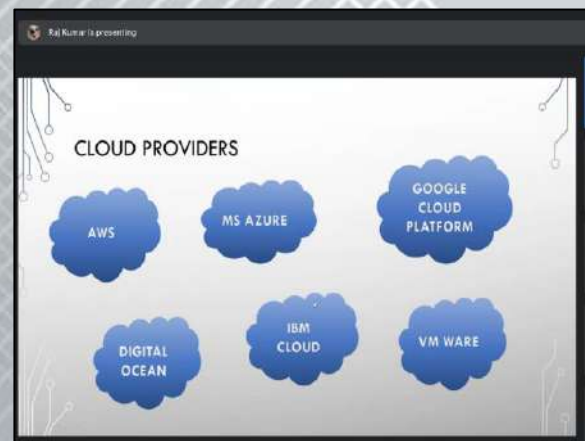
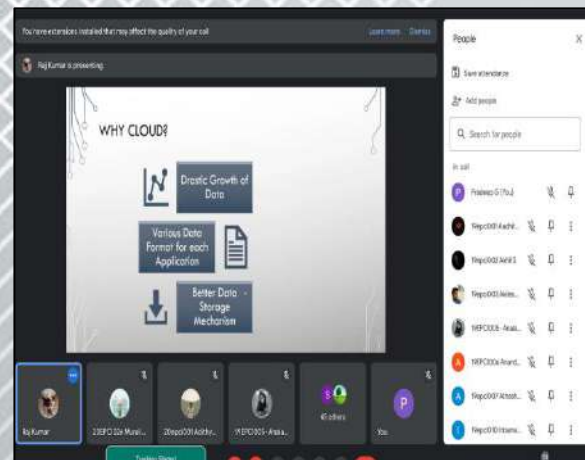
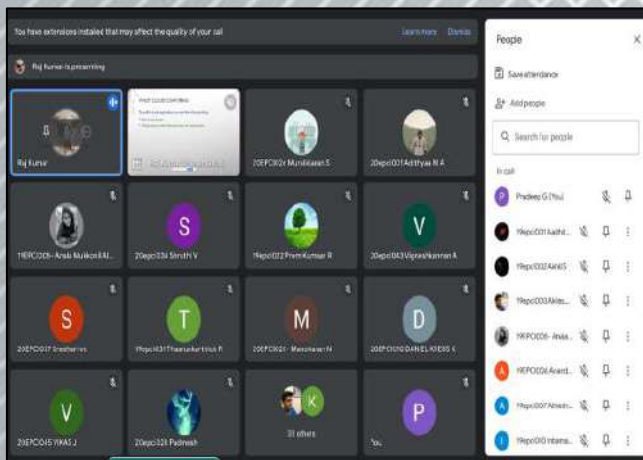
## MCT | HOD ADDRESS



**Dr. M. Lydia**, HoD, **MCT** and **Dr.T.A.Selvan**, Professor,**MCT** addressed the students of **Third** and **Final** year students on their first day of the academic year 2022-2023. The students were addressed on the need to maintain discipline in and around the campus, academic performance, placement training, internal tests and attendance. She motivated the students to participate in National and International conferences, workshops, Hackathon and in-house activities. She also advised the final and pre - final year students to prepare resume for the upcoming placements. Finally she greeted the students to be safe and happy to enjoy every minute of learning in and around the campus.



## M.TECH CSE | GUEST LECTURE



Department of **M.Tech Computer Science and Engineering** organized guest lecture on **“Impact of Cloud Computing on Entrepreneurship and Start-Ups”** for the **Third** year students on 16.07.2022. **Mr.K.T.K.Rajkumar**, Technology Consultant, Virtusa, Bangalore was the Resource Person. Cloud Deployment Model, Difference between IAAS, PAAS and SAAS, Cloud Provider and Cloud Deployment Model in Cloud were the session highlights.

## M.TECH CSE | HOD ADDRESS



**Dr P Kavitha Rani** , Professor and Head, **M Tech Computer Science and Engineering** Department has addressed the **Third** and **Fourth** year students regarding the upcoming Semester. The key points of the discussion were: Curriculum of upcoming semester, motivated the students to enhance their skill sets in the emerging field and encouraged them to excel in it.



## MECH| SEMINAR ON HIGHER EDUCATION OPPORTUNITIES



641008, BK Pudur, Sugunapuram East, Kuniyamuthur, Tamil Nadu 641008, India

Kuniyamuthur  
Tamil Nadu  
India

2022-07-20(Wed) 11:16(am)

26°C  
79°F

**Higher Education Cell** of **Mechanical Engineering** Department organized a seminar on '**Higher Education Opportunities at Abroad**' to the Second year Mechanical Engineering students. **Ms. Naga Lakshmi**, Director, Career Zone Private Ltd was the Resource Person. The session highlighted the opportunities and benefits of higher education at abroad.



## S&H | VALEDICTORY CEREMONY

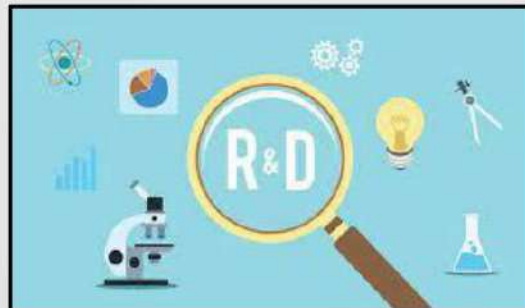


Valedictory Ceremony of Science and Humanities Association was organized on 9.7.2022. **Sneha Janarthanan**, Student Secretary of **SHA** delivered the Welcome Address. **Dr.V.Ragavi**, HoD, **S&H** addressed the students. A glimpse of the memorable journey of the academic year was also witnessed with great glee. To acknowledge the hard work and efforts of the students and to motivate them to continue their journey with the same enthusiasm the student winners were felicitated. **Swami Prassana**, Joint Secretary of SHA proposed the Vote of Thanks.





# RESEARCH AND DEVELOPMENT



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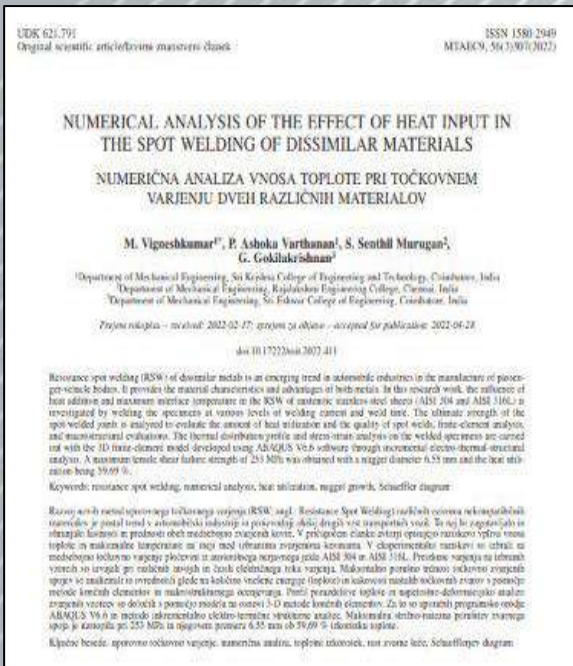


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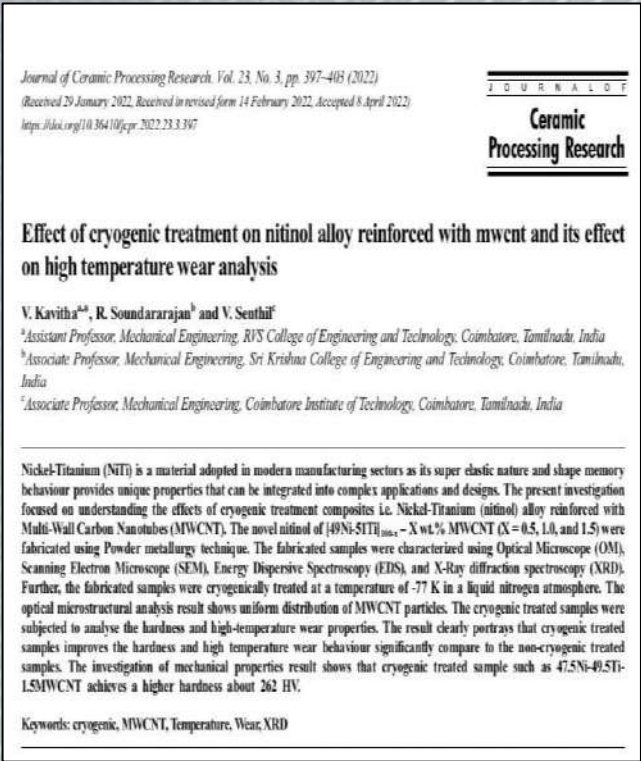
**R&D | PAPER PUBLICATION | MECH**



**Dr. P. Ashoka Varthanan, HOD, Mechanical Engineering** along with **Dr. M. Vigneshkumar, Assistant Professor, Mechanical Engineering** has published a scientific research article titled **‘Numerical analysis of the effect of heat input in the spot welding of dissimilar materials’** in the Journal of Materials and Technology. The journal is listed in Anna University Annexure 1, Indexed in SCI and Scopus with an impact factor 0.638.

**R&D | PAPER PUBLICATION | MECH**

**Dr. R. Soundararajan, Associate Professor, Mechanical Engineering** has published a scientific article entitled **‘Effect of Cryogenic treatment on nitinol alloy reinforced with MWCNT and its effect on high temperature wear analysis’** in Ceramic Processing Research. It is a SCI, WoS and Scopus indexed journal with an impact factor 0.69.





**R&D | PAPER PUBLICATION | CSE**

**Dr.P.Mohan Kumar, Professor, Department of CSE has published a research article titled “Fusion-based advanced encryption algorithm for enhancing the security of Big Data in Cloud” in the Journal of Concurrent Engineering: Research and applications. The journal is listed in Anna University Annexure 1. Scopus indexed journal with an impact factor 2.118**

DOI: 10.1177/1063293X221089086.

CSE

Concurrent Engineering Research and Applications  
2022, Vol. 36(2), 171-180  
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SAGE

Standard Article

**Fusion-based advanced encryption algorithm for enhancing the security of Big Data in Cloud**

A Vidhya<sup>1</sup> and P. Mohan Kumar<sup>2</sup>

**Abstract**  
Every organization in this digital age is expected to exponentially increase its digital data due to generations from machines. The advanced computations of Big Data are now showing various opportunities for the researchers who work on security enhancements to assure the efficient accessibility of the data stores. Our research work aims to derive a Fusion-based Advanced Encryption Algorithm (FAEA) for a cost-optimized satisfiable security model toward the usage of Big Data in the cloud. The FAEA method is evaluated for its performance toward efficiency, scalability, and security and proved to be 98% ahead of the existing methods of Security Hadoop Distributed File System Sec (HDFS) and Map Reduce Encryption Scheme (MRE). On the other hand, this work aims to address the problems of usage of Big Data in the cloud toward the sole solution, cost-effective solution, and proof of ownership. The outcome analysis of FAEA revolves around addressing these three major problems. This research work would be much helpful for the IT industries to manage Big Data in Cloud with security aspects for the decade.

**Keywords**  
cloud security, Big Data, fusion keys, key generation, encryption, decryption

**Introduction**  
Cloud computing offers a variety of uses, including providing free access to pricey programs and lowering both the initial and ongoing costs of computers and software by eliminating the need for a foundation. The data can be stored anywhere by the users (Shamir et al., 1978). All users must register with a system, such as the Internet. Cloud computing began as a tool for personal computing, but it is now extensively used to access software and internet storage without having to worry about infrastructure costs or processing capacity (Kattya G and Anita Macdon M, 2015). Organizations may use the cloud to offload their IT infrastructure and obtain access to it. Cloud computing is being used not only by private businesses but also by the government, which is migrating some of its IT infrastructure to the cloud. Sensors, scanners, numerical models, movies, mobile phones, digitizers, the Internet, e-mails, and social networks are only some of the digital data sources that are growing the data. (Choudhary and Jeshi, 2018) Recent advancements in Big Data Cloud computing have provided several opportunities for cryptography experts to increase the security of authentication and permission for quickly accessing stored data (Guesmi et al., 2014).  
The cloud is an open environment, and users' monitoring capabilities are restricted. Big Data presents a significant problem in terms of privacy and security (Arya et al., 2013). Cloud computing is expected to access about 60% of global data by 2025, according to the International Data Corporation (IDC). As a result, there is a great need for research into information privacy and security issues in both cloud computing and Big Data (Shah Kruil and Gambhara, 2012). The cloud's shared concept and the increased need for shared resources in cloud computing might erode

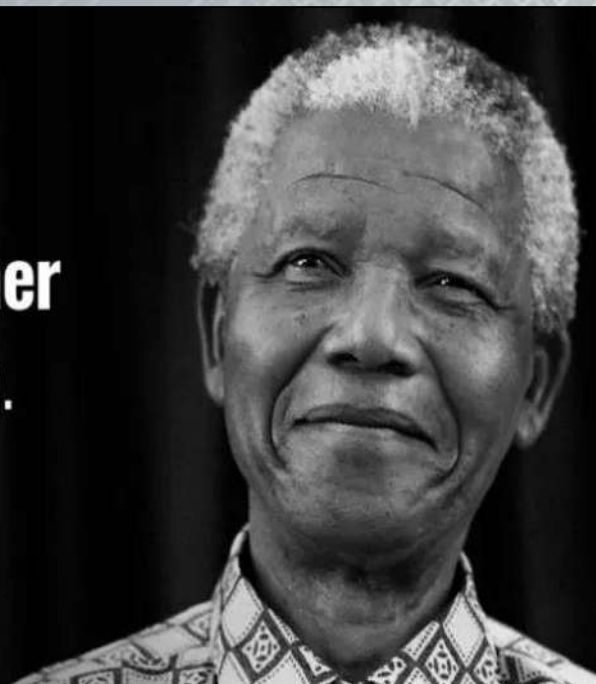
<sup>1</sup>Department of Computer Science and Engineering, Jipmer Engineering College, Chennai, Tamilnadu, India  
<sup>2</sup>Department of Computer Science and Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India

**Corresponding author:**  
A Vidhya, Department of Computer Science and Engineering, Jipmer Engineering College, Chennai, Tamilnadu, India  
Email: vidhyarj1989@gmail.com

**LEGENDARY INSIGHTS**

**A winner is a dreamer  
who never gives up.**

- Nelson Mandela





## ALUMNI CONNECT



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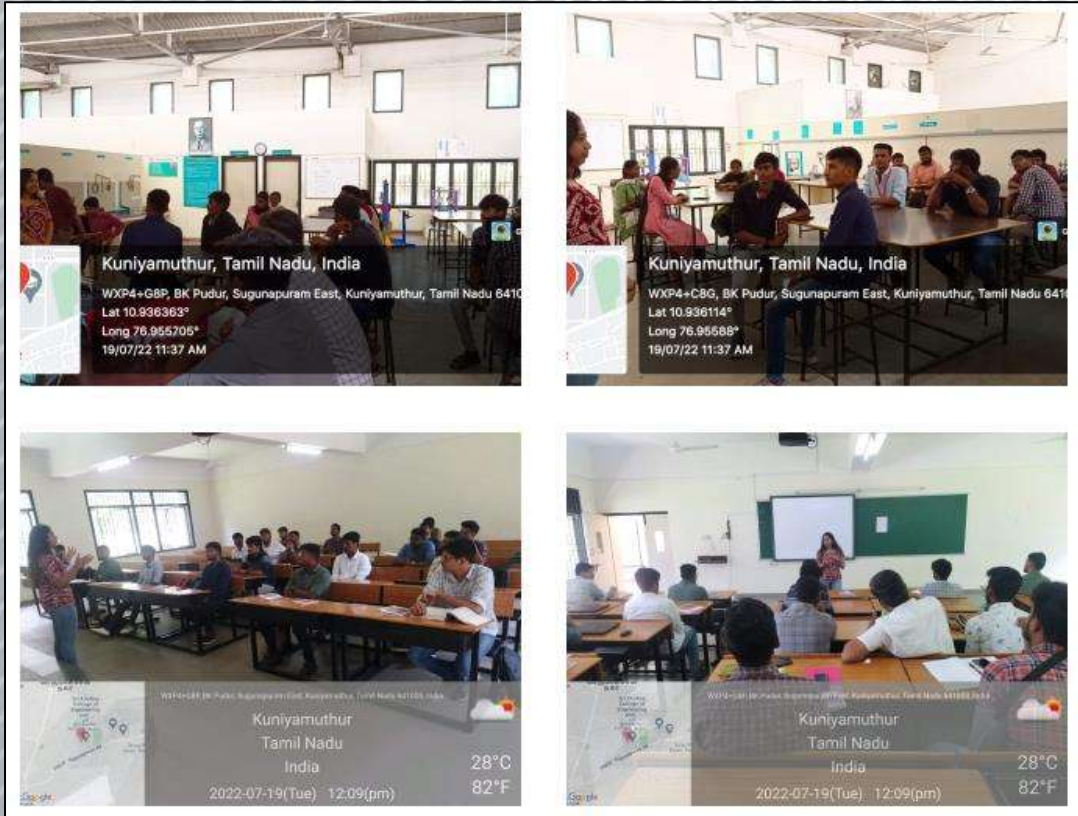
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## MECH|ALUMNI INTERACTION



Higher Education Cell of **Mechanical Engineering** organized a seminar on “**Higher Education and Employment Opportunities at Australia**” to our **Final** year higher studies opted students on 19.07.2022. The session was handled by **Ms. Aparna Nithyanand**, Post Graduate Engineering Trainee, Ammjohn Project Engineering, Australia, prominent Alumna of the Department (2015 – 19 Batch). The session enriched knowledge on higher studies opportunities at Australia and abroad. She also interacted with the **Second** and **Third** year students of Mechanical Engineering and briefed the importance of practical knowledge to make a good career.

# SKCET Buzz



## FACULTY PROGRESSION



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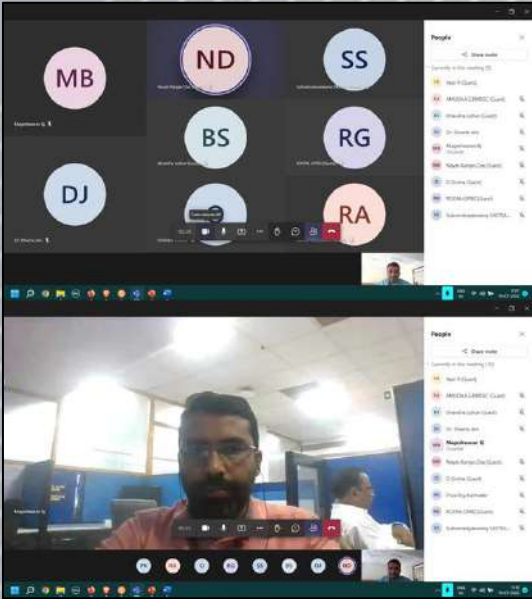
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## CSBS | FDP RESOURCE PERSON



**Mr.R.Yasir Abdullah**, Assistant Professor, Department of **Computer Science and Business Systems** has been the Resource Person for the **Faculty Development Program on “Data Mining and Analytics”** organized by **Tata Consultancy Services**, on 19.07.2022, through Microsoft Teams. The target audience were the Nationwide faculty members from the Department of Computer Science and Business Systems.

## HEALTHOGRAPHICS | TO BOOST BONE HEALTH

- 1 TRY STRENGTH TRAINING
- 2 MAINTAIN A HEALTHY WEIGHT
- 3 CHOOSE VEGETABLES AND FRUIT THAT PROVIDE POTASSIUM
- 4 EAT FOODS WITH POLYPHENOLS
- 5 GET ENOUGH CALCIUM AND VITAMIN D IN A 24-HOUR PERIOD
- 6 ADD IRON
- 7 EAT BONE-STRENGTHENING PROTEIN
- 8 QUIT SMOKING
- 9 MINIMIZE DRINKING
- 10 SUPPLEMENT WITH COLLAGEN



## FACULTY CERTIFICATIONS



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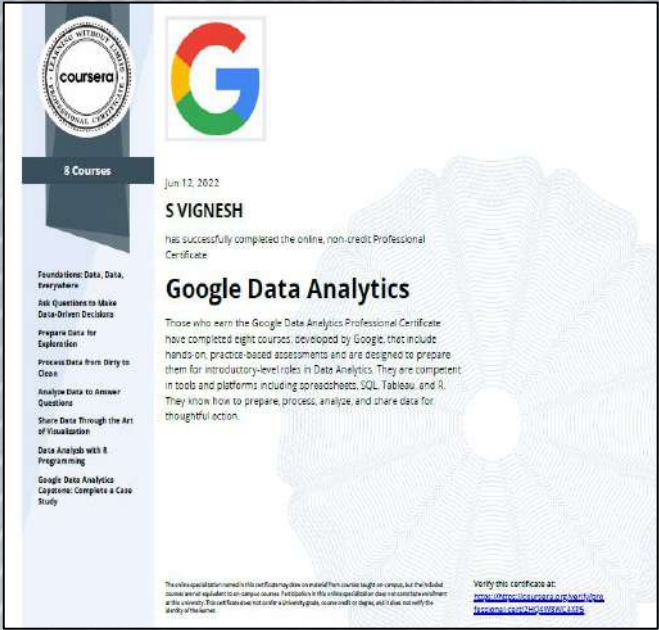


## AI&DS| FDP ON DEEP LEARNING AND ITS APPLICATIONS

**Dr. S. Venkata Lakshmi**, Professor and Head, **Department of Artificial Intelligence and Data Science** has participated in the Faculty Development Program on “**Deep Learning and its applications**” organized by Sairam Engineering College in association with Indian Society for Technical Education (ISTE) from 11<sup>th</sup>-15<sup>th</sup> July, 2022.



## MECH| COURSERA CERTIFICATION



**Mr. S. Vignesh**, Assistant Professor, **Mechanical Engineering** has successfully completed a course on **Google Data Analytics** developed by Google and offered through Coursera. The course concentrated on spreadsheets, SQL, Tableau and R Programming.

## CSBS | DEEP LEARNING AND ITS APPLICATIONS



**Mr.M.Manicka Raja**, Assistant Professor, **CSBS** has participated in the FDP on “**Deep Learning and its applications**” organized by the Department of Artificial Intelligence and Data Science, Sri Sairam Engineering College, Chennai during 11.07.2022 to 15.07.2022.

## CIVIL| FDP ON UNIVERSAL HUMAN VALUES II

**Dr.R.Chandra Devi**, Associate Professor, Department of **Civil Engineering** has successfully completed a 6-day FDP on “**Universal Human Values II**” organized by AICTE from 23<sup>rd</sup> May to 28<sup>th</sup> May 2022.





## EEE | VIRTUAL LABORATORY PLATFORM FOR DIGITAL ELECTRONIC CIRCUITS LABORATORY



**Dr.R.Sumathi, Ms.N.Subhalakshmi, Ms.T.Malini, Mr.R.Kavin, and Ms.C.Pavithra** faculty members of **EEE** Department have participated in an online Faculty Development Program on **“Virtual Laboratory Platform for Digital Electronic Circuits Laboratory”** organized by School of Electronics Engineering(SENSE), Vellore Institute of Technology, Chennai.

## M.TECH CSE | DEEP LEARNING AND ITS APPLICATIONS



Dr.P Kavitha Rani, Professor and Head, Dr.D Prabha, Dr.A.Pushpalatha and Ms.B.Manohari faculty members of M.Tech. Computer Science and Engineering have successfully completed a Faculty Development Program on "Deep Learning and its Applications" in association with Indian Society for Technical Education (ISTE) from 11<sup>th</sup> July to 15<sup>th</sup> July 2022.



## IT| INTRODUCTION TO DATA SCIENCE



**Dr.S.Durga**, Associate Professor, Department of **Information Technology** has successfully completed a course on **“Introduction to Data Science”** certified and recognized by Infosys.

## CSE| DEEP LEARNING AND ITS APPLICATIONS

**Ms.S.Vajitha Nazreen**, Assistant Professor, Department of **CSE** has participated in the Faculty Development Program on **“Deep Learning and its applications”** organized by Sairam Engineering College associated with Indian Society for Technical Education(ISTE) from 11.07.2022 - 15.07.2022.



## CSE|WORKSHOP ON DS & ML USING PYTHON

Mr.M.Vengateshwaran, Assistant Professor, Department of **CSE** has participated in the five days Faculty Development Workshop on “**Data Science and Machine Learning using Python**” organized by MIT Meerut Institute of Technology from 04.07.2022 to 08.07.2022.



## IT| INNOVATION AMBASSADOR



Dr.M.Mohammed Mustafa, Associate Professor, Department of **Information Technology** has attended “**Innovation Ambassador - Foundation level**” training programme certified and recognized by MoE’s Innovation cell and AICTE during the IIC calendar year 2021-2022.



## AI&DS| DEEP LEARNING AND ITS APPLICATIONS



**Dr.T.Sujatha**, Associate Professor, Department of **Artificial Intelligence and Data Science** has participated in the Faculty Development Program on **“Deep Learning and its applications”** conducted by Sairam Engineering College associated with Indian Society for Technical Education(ISTE) from 11<sup>th</sup>-15<sup>th</sup>July,

## GLOBAL OBSERVANCE

