

SKCET

Buzz



14th - 18th NOVEMBER 2022



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**INSTITUTIONAL
EVENTS**



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SKCET | ANNUAL MEGA ALUMNI MEET



SKCET Annual Mega Alumni Meet 2022 (Coimbatore Chapter) – **Reconnect and Rejoice** was conducted on 13th November 2022. To invoke the blessings of the almighty, the lamp of knowledge and wisdom was kindled by our dignitaries. Our beloved Principal Madam **Dr.J.Janet** delivered the Presidential Address to the team of SKCETians who have gathered again with strong memories. Madam shared the Academic Programmes and Accolades.

SKCET | ANNUAL MEGA ALUMNI MEET



Sri Krishna College of Engineering and Technology through its full-fledged effort systematically carried out the task of bringing together the alumni and establishing their continuous rapport with the Institution. **Advaita - Alumni Magazine** was released by our Principal Madam. Also, an exclusive **Alumni Web Portal - SKCET Linkup "Reconnect and Relive"** was inaugurated by our Principal Madam in the presence of **Mr.Thamaraikannan**, Secretary and various SKCET Alumni Association Members. The portal was created by our SKCET juniors.

SKCET | ANNUAL MEGA ALUMNI MEET



Celebrating the Outstanding Achievements of our Alumni in SKCET way!!

One of the best practices of SKCET is to recognize and appreciate the best combination of talent, skill and attitude. Our Beloved Principal Madam felicitated the alumni achievers for their tremendous achievement and contribution for the college.

SKCET | ANNUAL MEGA ALUMNI MEET



Success of any Institution can be measured by the contribution of the Alumni!!
Dr. Jayasudha Subburaj, Alumni Coordinator, SKCET gave a brief introduction of the Alumni Association of SKCET.

Mr. Thamarai Kannan, Secretary, SKCET Alumni Association proposed the Vote of Thanks. The delightful afternoon was filled with loads of memories when the alumni members shared their interesting and unforgettable moments of their campus life.



SKCET | ANNUAL MEGA ALUMNI MEET



Cultural Extravaganza at Sri Krishna Hall

Sri Krishna Hall was filled with enthralling performance and surprises of the budding engineers to their loving seniors.

SKCET | ANNUAL MEGA ALUMNI MEET - GLIMPSES



SKCET | ANNUAL MEGA ALUMNI MEET - GLIMPSES



SKCET | ANNUAL MEGA ALUMNI MEET- GLIMPSES



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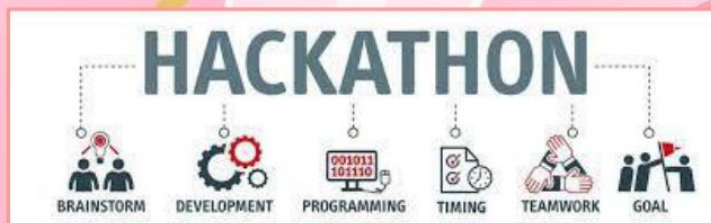


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**HACKATHON
ACCOLADES**



#skcet

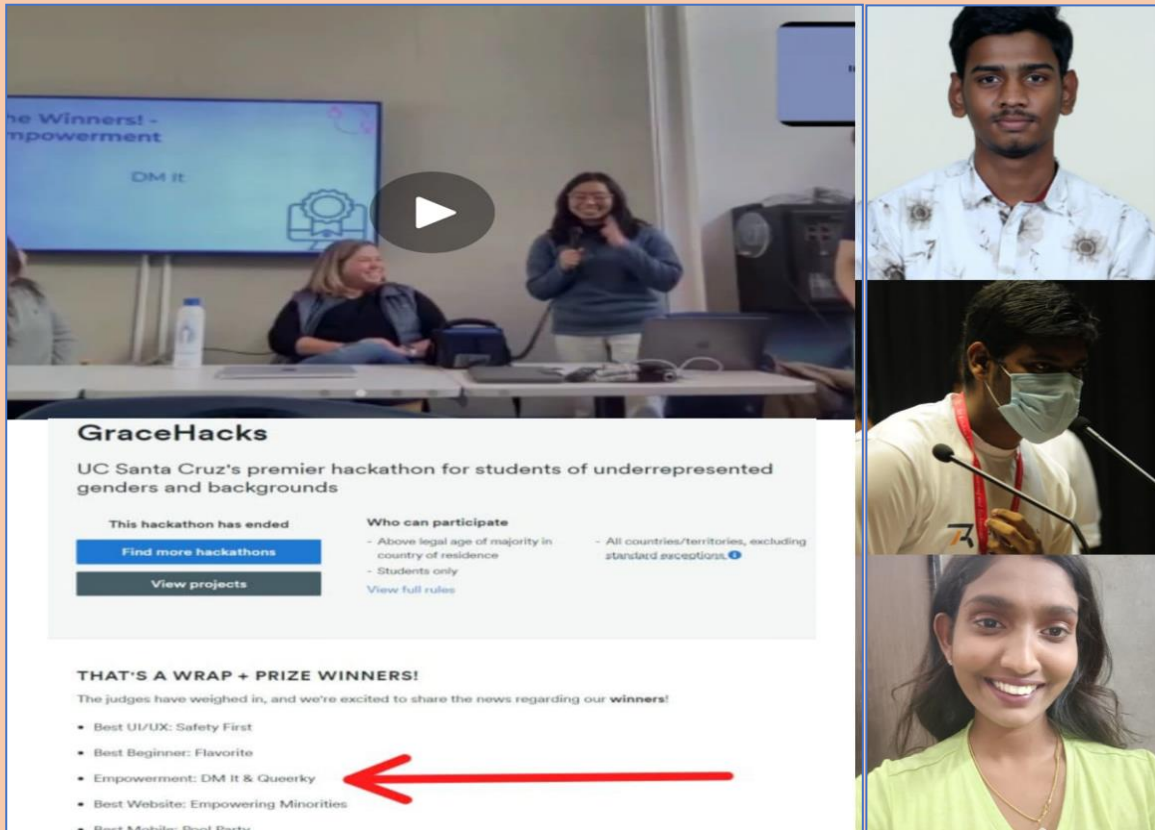


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CSE | SANTA CRUZ'S 3rd ANNUAL HACKATHON



Second year students have won the **Best Empowerment Award** in UC Santa Cruz's premier Hackathon. The team has bagged around \$650 worth prizes. The 24hr Hybrid Hackathon was held on 13th November 2022. The Judges congratulated the team for its excellent technical implementation, exhilarating UI/UX design and Novel Idea.


Team Members:

- Prithika Andrea Angelina F (II CSE)
- Nagasundar N (II CSE)
- Monish Kumar A(II CSE)

Mentor:


Ms. A. Priya (AP/CSE)

CSE | EMIDS HEALTHCARE HACKATHON



EMIDS HEALTHCARE HACKATHON

IIIT SRI CITY



Team Position	Team Name
1	Team DnR
2	IVK
3	ELITEMEDY
4	Hack Elite
5	ZeroBugs



Priyadharshini B
III CSE B



Rajkumar T
III CSE B



Anwisha Zaman
III CSE A



Mentor

Dr. Rohini M
AP/CSE



SRI KRISHNA COLLEGE OF
ENGINEERING AND TECHNOLOGY

Students of **Third year CSE** have won in the **EMIDS Healthcare Hackathon** conducted by IIIT Sri City & EMIDS Healthcare solutions to create unique solutions to the top use-cases in the healthcare sector. The team have proved themselves, emerging as **Team of Excellence** in EMIDS Healthcare Hackathon. Their project, **CareVault** an **Electronic Medical Records System** is a digital version website that manages and centralizes patient records. It supports the data entities of Patients, Drugs, Diagnoses, and other relevant data for the clinics/hospitals. The team was awarded with the **cash prize of Rs 10,000/-**.

Team Name: HACK ELITE

Team Members:

Priyadharshini B – III CSE

Rajkumar T – III CSE

Anwisha Zaman - III CSE

Mentor:

Dr.Rohini M, AP/CSE

ECE | IDEATHON



Praveen Sagar, student of Third year ECE B has bagged **First Prize** in the Ideathon event organized by Phoenitags – a student startup of SKCET. He has been rewarded with a cash prize of Rs. 3000/- from **Mr. Sibidharan Nandha Kumar**, an eminent entrepreneur.

M.TECH. CSE | XPLORE IDEATHON 2022



Jaswanth S, Sri Deiva Prasanna V, Kesika V and Sanjay SP, students of **Second year M.Tech Computer Science and Engineering** have presented an idea titled **“Extended Reality in Military Medicine with Block Chain”** and has won **First Prize** of Rupees 4,000/-in **XPLORE IDEATHON 2022** sponsored by **AICTE SPICES Hack Club**, organized by Department of CSE and M.Tech CSE on 11th November 2022.

CSBS | EMIDS HEALTH CARE HACKATHON

Team Position	Team Name
1	Team DnR
2	IVK
3	ELITEMEDY
4	Hack Elite
5	ZeroBugs
6	Aspire coders
7	Perceptrons
8	2 Broke Codes
9	Team Diagnoz
10	Eucalyptus-1
11	CADRE CORPS
12	YUVA
13	Helping Hand

Student team "**Zero Bugs**" comprising of **Vidhulaa Sri T, Kamesh J, Nirvindha B** and **Dhasagreevan C**, students of **Second** year **CSBS** mentored by **Mr. Yasir Abdullah** has participated in the **EMIDS Healthcare Hackathon**, from 11th to 13th November 2022 conducted by the IIIT Sri City & EMIDS healthcare solutions to create unique solutions to the top use-cases in the healthcare sector. The team bagged fifth position in the competition and has been awarded with the cash prize of Rs.10,000/-.

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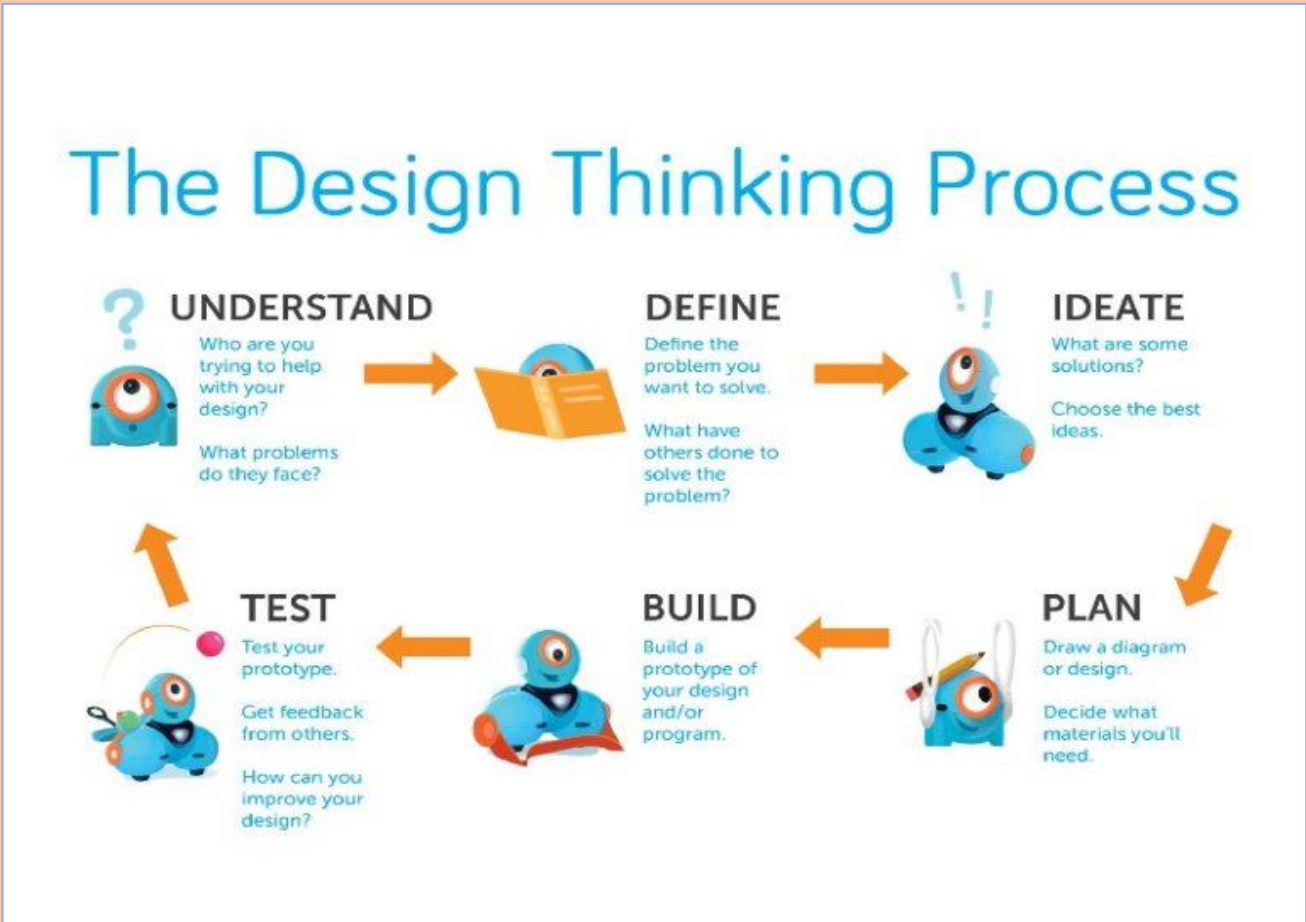
skcetbuzz@skcet.ac.in

IT| IDEATHON



Shahid Kareem S, student of **Third year IT** has secured a position in the **The Top 10 finalists** of the **Second Phase of Ideathon, Entrepreneurship summit** conducted from **5th to 8th November** organized by the **Department of M. Tech CSE, SKCET, Coimbatore**.

INFOGRAPHICS



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S&H | ASSOCIATION INAUGURATION



Department of **Science and Humanities** inaugurated **SHA 2k22** on 14th Nov, 2022. The inauguration ceremony was presided by our respected **Principal Madam Dr. J. Janet**. Madam shared words of encouragement with the students quoting the need to seed the young mind in using a competitive game environment, and interpersonal skills to respond to a series of scenarios. **Dr.V.Ragavi**, Dean of Student Affairs, elucidated the importance of clubs and motivated the students to participate in all the events. The club secretaries were conferred with badges and Oath was administered by **Dr. A. Indhuleka**, Head of the Department, S&H.

S&H | ASSOCIATION INAUGURATION



WELCOME DANCE



LAMP LIGHTING



**WELCOME ADDRESS
BY SHA SECRETARY
CHRIS IMMANUEL**



**SPECIAL ADDRESS BY
DR.V. RAGAVI, DEAN
OF STUDENT AFFAIRS**

S&H | ASSOCIATION INAUGURATION



PRESIDENTIAL ADDRESS



INVESTITURE CEREMONY

S&H | ASSOCIATION INAUGURATION



SWEARING IN CEREMONY



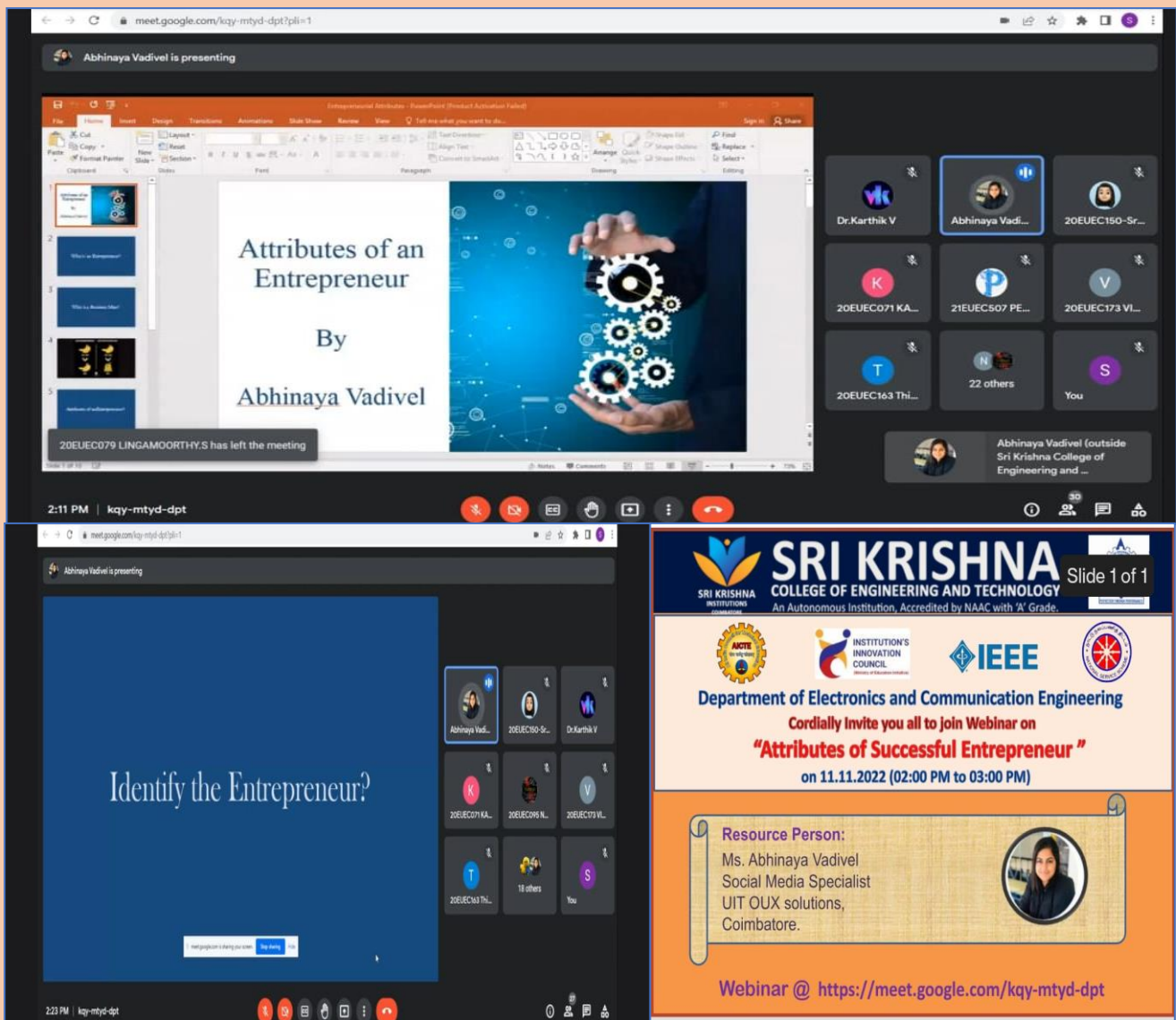
VOTE OF THANKS BY SHA SECRETARY RITHANYAA D S

ECE | GUEST LECTURE ON SKY TELLERS



Department of **Electronics and Communication Engineering** organized a **Guest Lecture** titled “**SKY TELLERS**” as part of Astronomy Club event on 11.11.2022. **Prof. K. Sakthivel**, Retired Professor, PSG College of Technology, Coimbatore was the Resource Person. Key take away of the Session were: Observing the Heaven, A brief History of all Constellations, Satellite Launch Vehicles, Milky Way Galaxy and Hands-on training with our Sky Watch Telescope.

ECE | WEBINAR ON ATTRIBUTES OF SUCCESSFUL ENTREPRENEUR



Department of **Electronics and Communication Engineering** organized a webinar on “**Attributes of Successful Entrepreneur**” on 11.11.2022. **Resource person:** Ms. Abhinaya Vedivel, Social Media Specialist, UIT OUX solutions, Coimbatore. **Key Points discussed were:** Qualities of a successful entrepreneur, Businessman vs Entrepreneur, Making timely Decision, Clear vision and direction, Persistence and networking.

SKCET E-CELL | SEMINAR ON INNOVATION VOUCHER PROGRAMME



Entrepreneurship Development & Innovation Institute (EDII) GOVERNMENT OF TAMILNADU, CHENNAI - 32.

ENTREPRENEURSHIP DEVELOPMENT CELL ANNA UNIVERSITY REGIONAL CAMPUS COIMBATORE

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
Kuniamuthur, Coimbatore-8

Jointly Organizes
“Innovation Voucher progamme”
 RESOURCE PERSON

Ms. Narayani Priyadarshini
IVP Grant Recipient - 2020

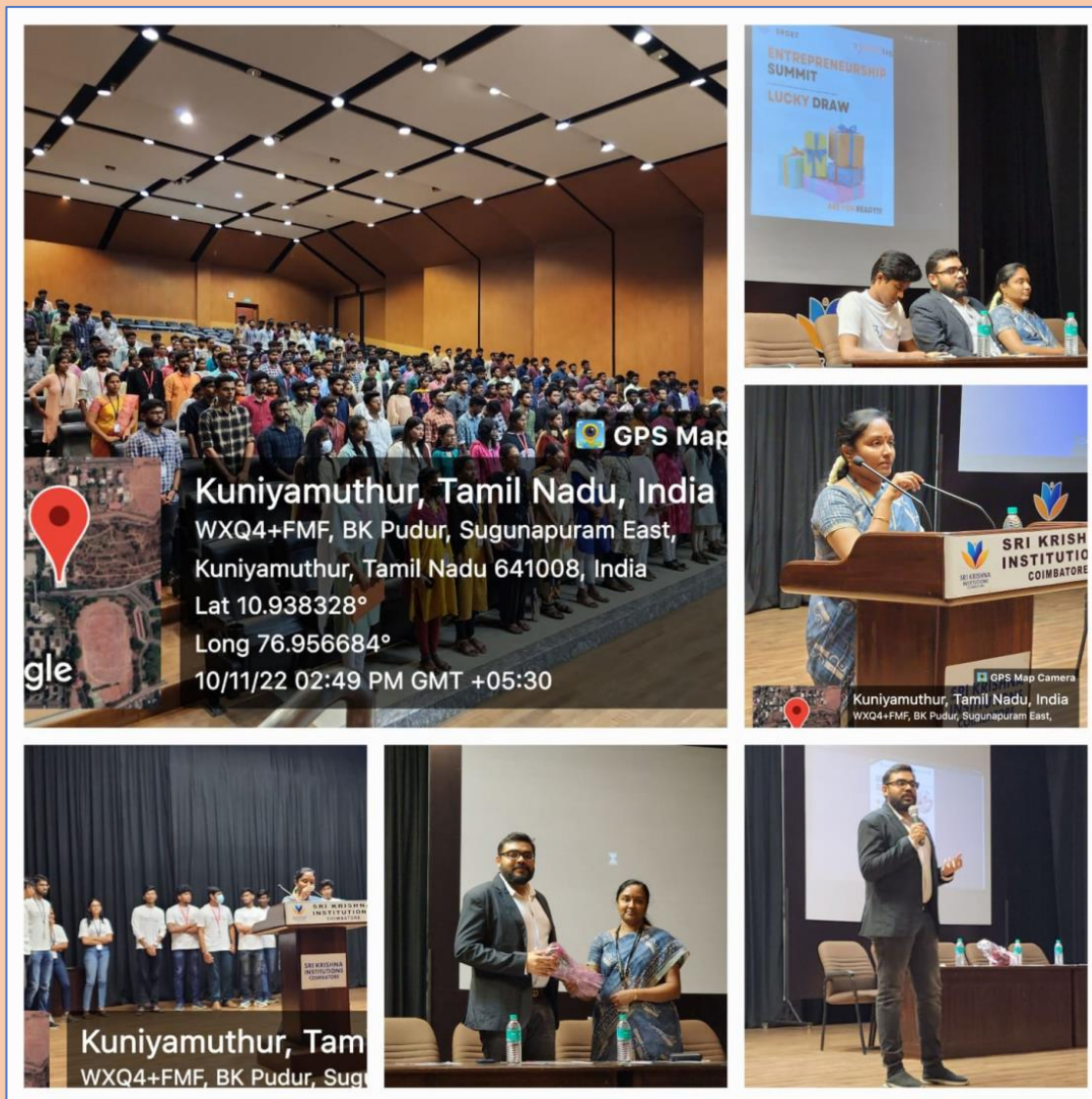
Dr.K.Kandhavel EDII HUB Coordinator, AURCC	Dr.M.Saravankumar Dean, AURCC
Dr.M.Sujaritha E-Cell Coordinator, SKCET	Dr. J.Janet Principal, SKCET

Date:7.11.2022 Time: 10am to 12.30pm Venue:BS 03 Seminar Hall



Entrepreneurship Cell of SKCET organized a Seminar on “**Innovation Voucher Programme**” on 07.11.2022. **Ms.Narayani Priyadarshini, IVP Grant Recipient -2020** was the Resource person. She motivated the students to involve in innovative project and development. She also gave the outline of her research work under IVP scheme and described the basic requirements for becoming an entrepreneur. She categorized the idea of the product, explained the Stages of Product Development and Commercially Ready Product.

SKCET E-CELL | ENTREPRENEURSHIP SUMMIT 2022



The **Entrepreneurship Development Cell** of SKCET organized an event titled “**Entrepreneurship Summit 2022**” on 10.11.2022. **Mr.Sibidharan Nandhakumar**, Founder and CEO of Self-made Ninja Academy addressed the students of various discipline on Entrepreneurship. He clearly specified the importance of Entrepreneurship and its initiatives at the college level. He also gave some ideas for building scalable start-ups through the real-time stories.

CSE | GUEST LECTURE ON IOT IMPACT ON DATA SCIENCE AND BIG DATA



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
Kuniamuthur, Coimbatore 641008



INSTITUTION'S INNOVATION COUNCIL
Ministry of Education Initiatives



Department of Computer Science and Engineering

Organizing a Guest Lecture on

IoT Impact on Data Science and Big Data

Source Person:
Mr. Sibidharan Nandhakumar,
Founder and CEO,
Self-made Ninja Academy, Bangalore

 November 10, 2022  11:00 am

 MCA Seminar Hall





GPS Map Camera

BK PUDUR, Tamil Nadu, India
WXP4+R8W, BK Pudur, Sugunapuram East,
Kunniyamuthur, Tamil Nadu 641008, India
Lat 10.937223°
Long 76.955883°
10/11/22 10:53 AM GMT +05:30



GPS Map Camera

BK PUDUR, Tamil Nadu, India
WXP4+R8W, BK Pudur, Sugunapuram East,
Kunniyamuthur, Tamil Nadu 641008, India
Lat 10.937223°
Long 76.955883°
10/11/22 10:54 AM GMT +05:30

Department of **Computer Science and Engineering** has organized a Guest Lecture on “IoT Impact on Data Science and Big Data” on 10.11.2022. **Mr. Sibidharan Nandhakumar**, Founder and CEO of Self-made Ninja Academy addressed the **Third** year students of **CSE** on **Internet of Things**. He elaborated the importance of Internet of Things, its usage and impacts on real life, industrial applications etc. The talk focused on introducing the concepts of the Internet of Things (IoT) and he explained about the types of sensors used in IOT and various application of IOT in daily life.

MECH | INDUSTRIAL VISIT TO SARVAMANGALA



Third year students of Mechanical Engineering Department visited **Sarvamangala Engineer Pvt. Ltd.**, on 10.11.2022. During the visit the students were exposed to Metal fabrication techniques, Jolting machine operations, Importance of casting and foundry industries and need for Industrial automation and progress towards Industry 4.0. **Mr. S. Balamurugan, Mr. A. Sathish Kumar, Mr. K N Gunasekaran** and **Mr. S. Vignesh**, faculty members of the Department accompanied the students.

MECH | INDUSTRIAL VISIT TO ORIGIN DIE AND TOOL MANUFACTURING



Students of **Third** year Mechanical Engineering Department visited Origin Die and Tool Manufacturing Pvt. Ltd, Coimbatore on 11.11.2022. **Dr. N. Balaji** and **Mr. R. Arun Kumar**, faculty members of Mechanical Engineering Department accompanied the students.

Students were exposed to:

- Design stages of pattern making
- Manufacturing stages of 3D die and tool making machines
- CAD/ CAM support in casting and foundry
- Need for Industrial automation, CNC , VMC and progress
- 3D printing and pattern making - A smart way that paves new opportunities and challenges towards Industry X.0.

MECH | WORKSHOP ON E- MOBILITY AND ITS TECHNOVATION



SAEINDIA SKCET Collegiate Club organized a one day workshop on **'E- Mobility and it's Technovation'** on 10.11.2022 for the **Second and Third** year Mechanical Engineering students. **Mr. Mothilal Sivasubramaniam**, Director Operation, Spero Electric, Coimbatore and **Mr. M. D. Karthigeyan**, Service Head, EV hub Coimbatore were the Resource People of the event. First session focused on Transformation towards E-mobility and its Technovation, Opportunity in E-mobility fields and the Second session focused on E-bike Live demo & Hands on experience and Latest techno futures & Policies in E mobility.

MCT | IIC GUEST LECTURE

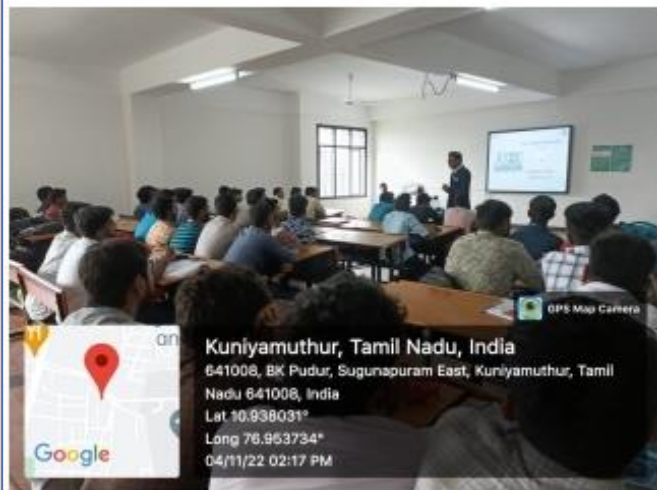


Institution Innovation Council of SKCET in association with the Department of **Mechatronics Engineering** organized a '**Guest Lecture on Problem Solving and Ideation**' on 12.11.2022. **Mr.Selvame Pazhany**, General Manager- Engineering Division,CEAT Limited, Chennai Plant was the Resource Person.

Session Takeaways:

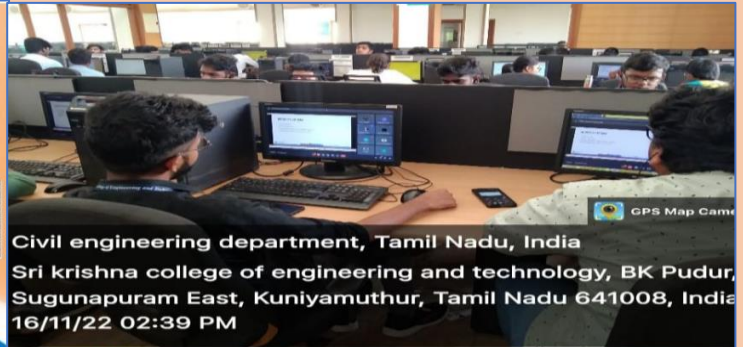
- Problem Solving Process
- Startup
- Ideation
- Idea to Reality

MECH | SEMINAR ON CAREER OPPORTUNITIES AFTER ENGINEERING

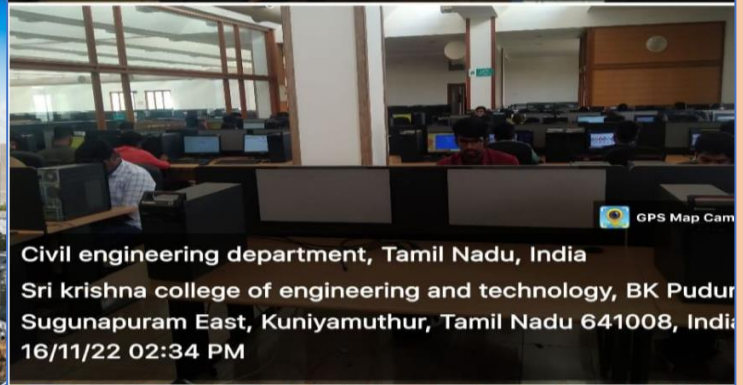


Higher education cell of **Mechanical Engineering** Department organized a seminar on '**Career Opportunities after Engineering**' by **Mr. Shankar Wadne**, Faculty member – ACE GATE Academy. The session highlighted the opportunities in public sector and higher studies after clearing the GATE examinations. The session also gave ideas to clear GATE examinations.

CIVIL | ONLINE SESSION ON ROAD TO INDIASKILLS 2023



Civil engineering department, Tamil Nadu, India
Sri Krishna college of engineering and technology, BK Pudur, Sugunapuram East, Kuniyamuthur, Tamil Nadu 641008, India
16/11/22 02:39 PM



Civil engineering department, Tamil Nadu, India
Sri Krishna college of engineering and technology, BK Pudur, Sugunapuram East, Kuniyamuthur, Tamil Nadu 641008, India
16/11/22 02:34 PM



Civil engineering department, Tamil Nadu, India
Sri Krishna college of engineering and technology, BK Pudur, Sugunapuram East, Kuniyamuthur, Tamil Nadu 641008, India
16/11/22 02:36 PM

The Indian Concrete Institute Student Chapter of the Civil Engineering Department organized an online session on “**Road to IndiaSkills 2023**” for the Second-year students on 16.11.2022.

ECE | IEEE COMMUNITY SERVICE SCHEME



As part of under IEEE Environmental Project under Community Service Scheme the following activities have been executed **on 11.11.2022**.

- The project team briefed the innovative method of Honey bee farming to the farmers in Coimbatore District.
- This design can alert the farmers about the correct time of harvesting. This project leverages the average income of the bee keeper from Rs.3,000/- to Rs.4,000 per brood box per month. There were about 50 farmers benefited from this program.
- In addition, the modern Honey brood box was donated to one of the beneficiaries in Tenkarai, Coimbatore District.

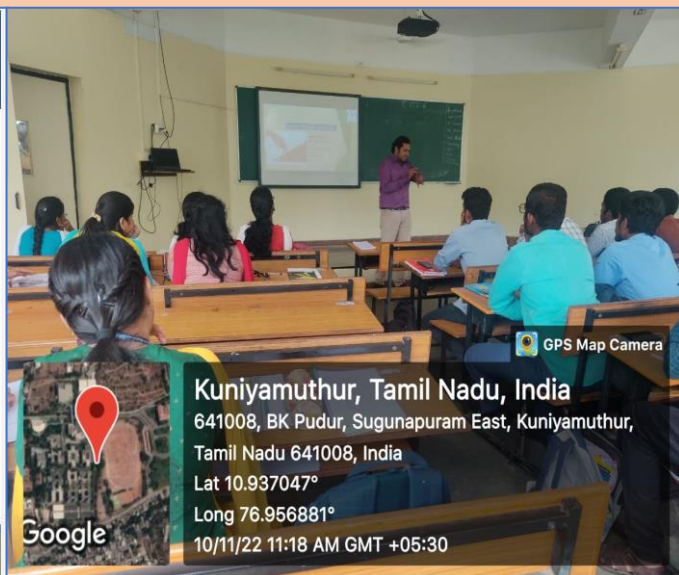
Furthermore, this product was installed at a farm land near Tenkari Coimbatore.

CSBS | INTRODUCTORY SESSION



A Welcome and Introductory Session was organized for the **First** year students of the Department of **Computer Science and Business Systems** on 03.11.2022. Dr.S.Balakrishnan, Professor and Head, **CSBS** ignited the students on all the important points related to the Curriculum and Syllabus and the best practices of the Department. The session was followed by “**Senior Faculty Interaction**” by **Dr.G.Ignisha Rajathi**, Associate Professor, **CSBS**. The highlights and achievements of the Department of CSBS were shared in this session.

ECE | SEMINAR ON AWARENESS ON HIGHER EDUCATION OPPORTUNITIES

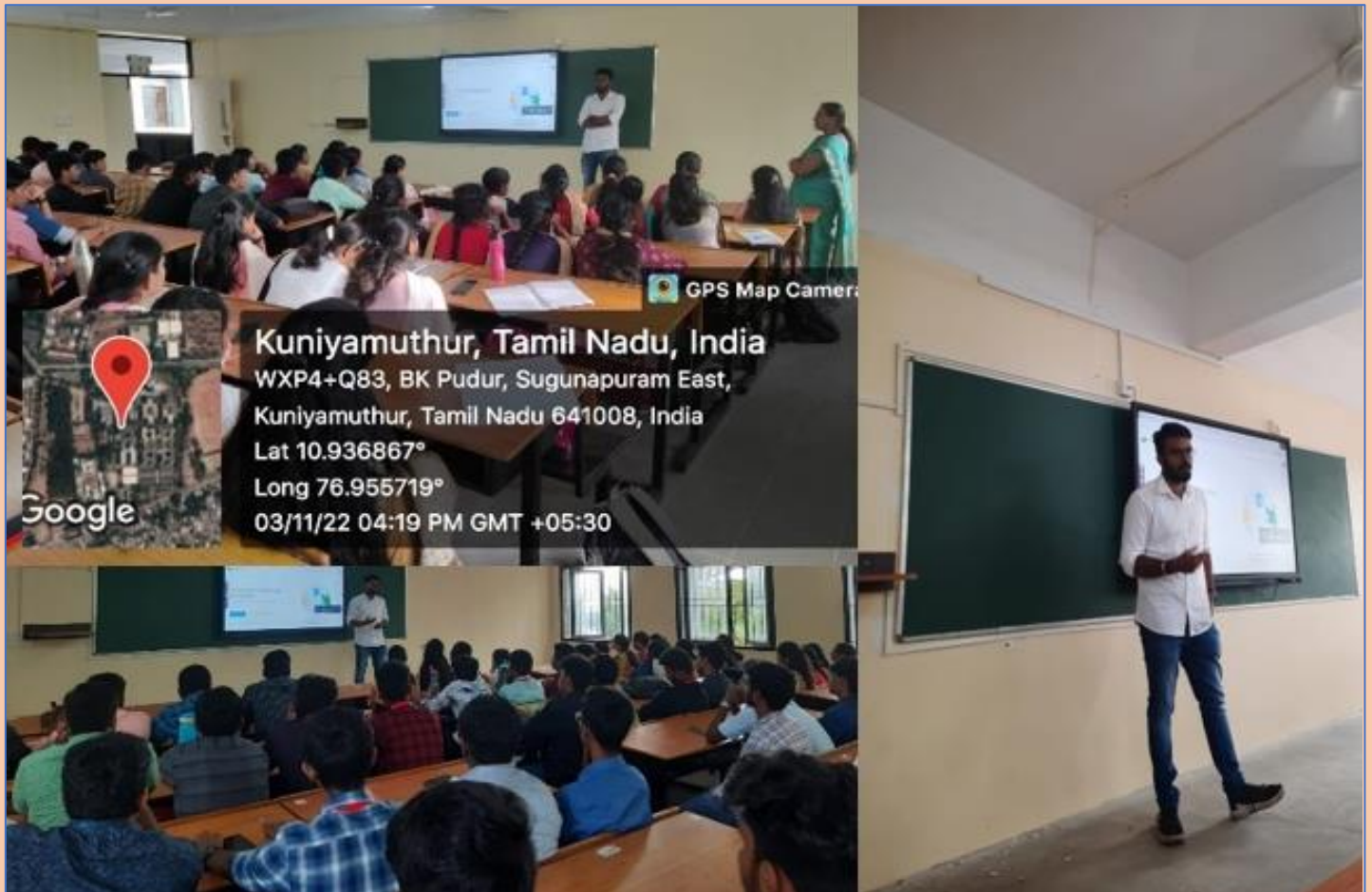


Department of **Electronics and Communication Engineering** organized a Seminar titled “**Awareness on Higher Education Opportunities for Engineering Graduates**” on 10.11.2022.

Resource person: Mr.Babu Vivekanandhan, Academic Head, T.I.M.E., Coimbatore and Mr. Siddharth, Manager (operations), T.I.M.E., Coimbatore

Eligibility for appearing the CAT Exam, Effective selection process and the exams, Selection criteria from top IIM, Exam dates and modules were the session highlights.

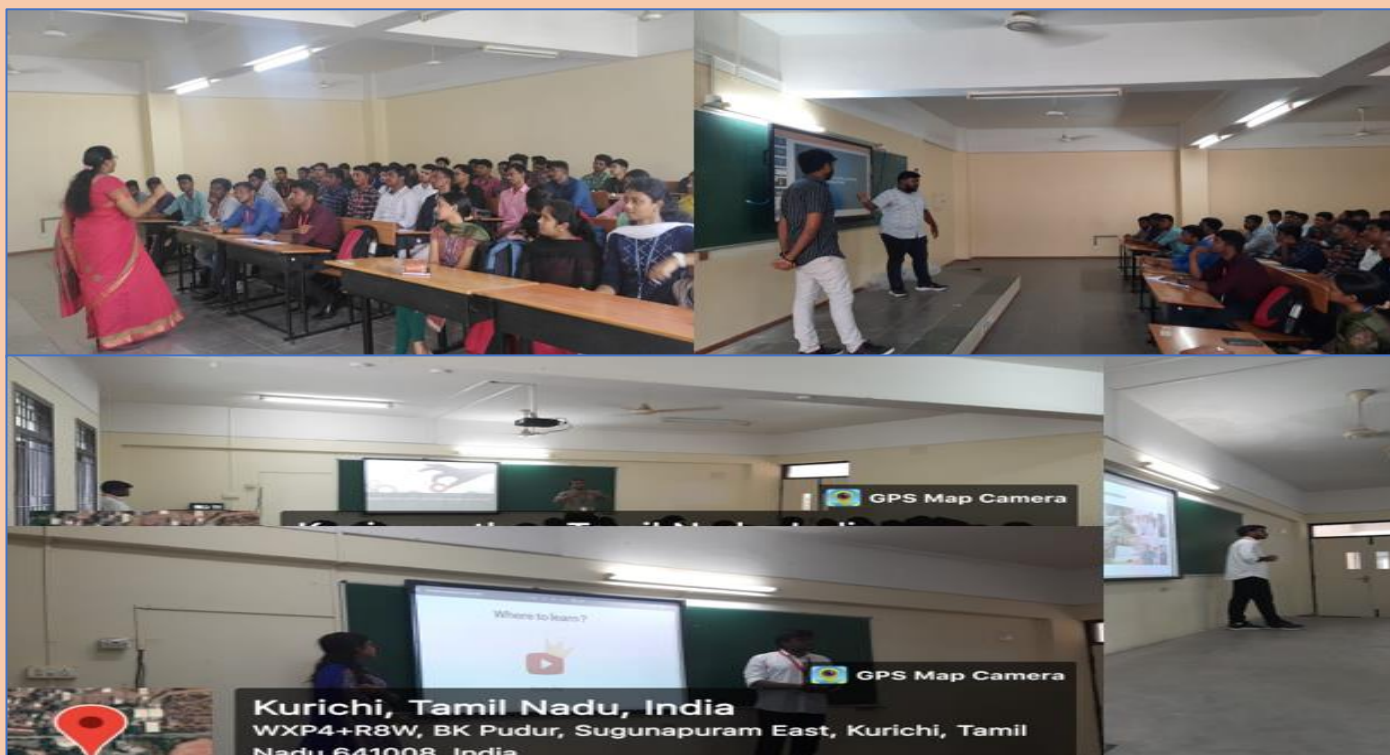
CSBS | ALUMNI INTERACTION



Alumni Interaction was organized for the **First** year students of the Department of **Computer Science and Business Systems** on 03.11.2022.

The session was handled by **Mr.S.Parvathy Nathan**, Software Development Engineer - Fullstack, Quinbay (BliBli),Coimbatore. He shared his experience at SKCET as a student and answered all the technical and non-technical queries during the session.

CSBS | C₂ HACK - BUDDY PROGRAMME



“C2 Hack” Buddy programme for the Budding Engineers was organized to acquaint the **First** year students with the tips and tricks to win laurels in hackathons.

The session was conducted by the faculty members and the students who have won the previous hackathons.

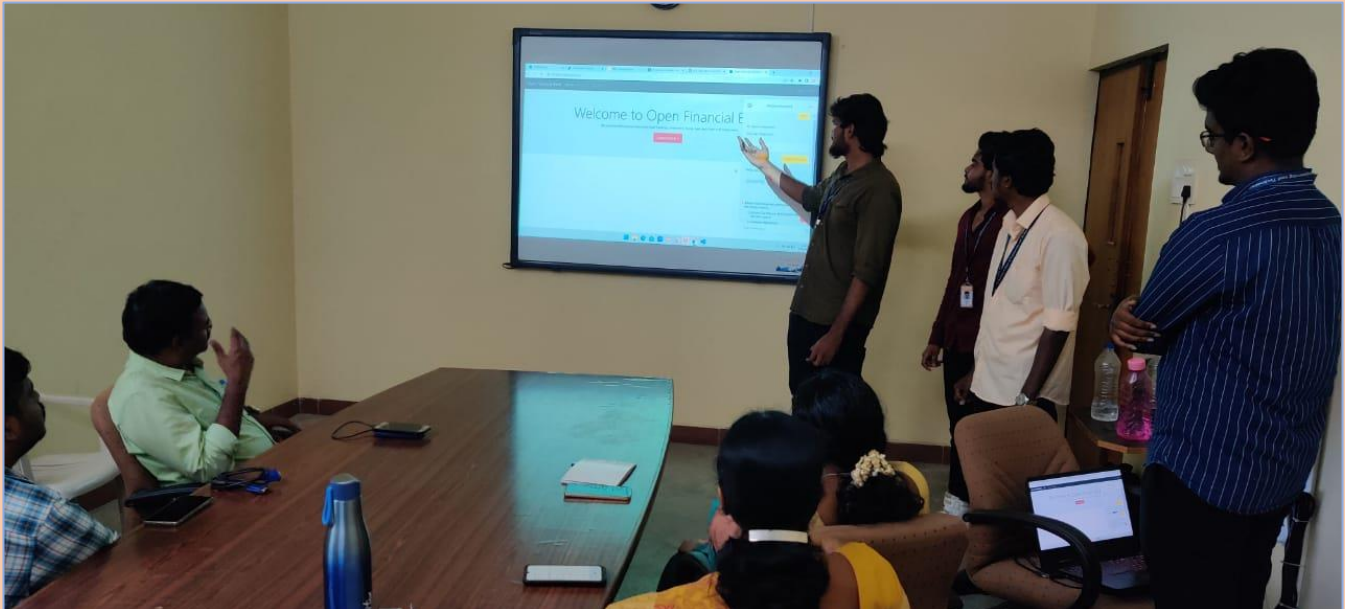
Faculty Members:

1. Dr. G. Ignisha Rajathi, Asso.Professor, CSBS
2. Mr. R. Yasir Abdullah, Asst. Professor, CSBS
3. Mr. PD. Mahendhiran, Asst. Professor, CSBS

Student Members:

1. Srihari M - IV CSBS
2. Tharun M - IV CSBS
3. Vishal C - II CSBS
4. Sasidharan R - II CSBS
5. Christina Mercy Mathew - II CSBS

IT | PROJECT REVIEW - NALAIYA THIRAN



The project-based experiential program (NalaiyaThiran) review was conducted for the **Final** year students of IT Department from 14.11.2022 to 16.11.2022 and they received valuable suggestions for further improvisation of the project by the mentors and evaluators of the department.

CSBS | AWARENESS ON INTELLECTUAL PROPERTY

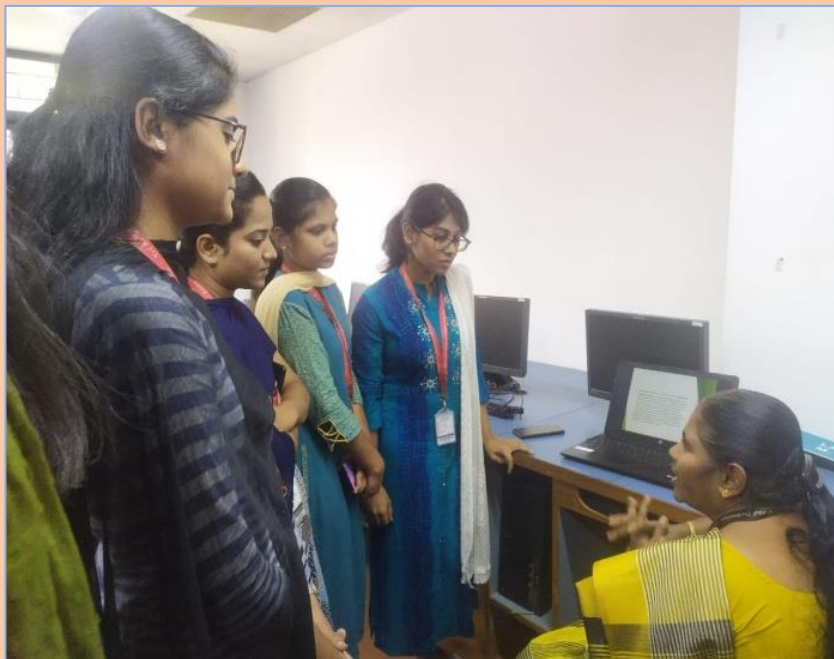
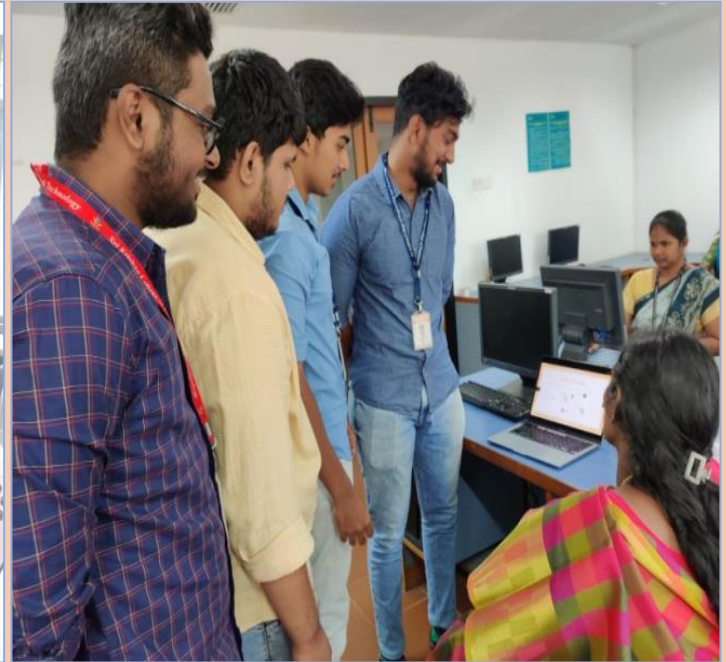
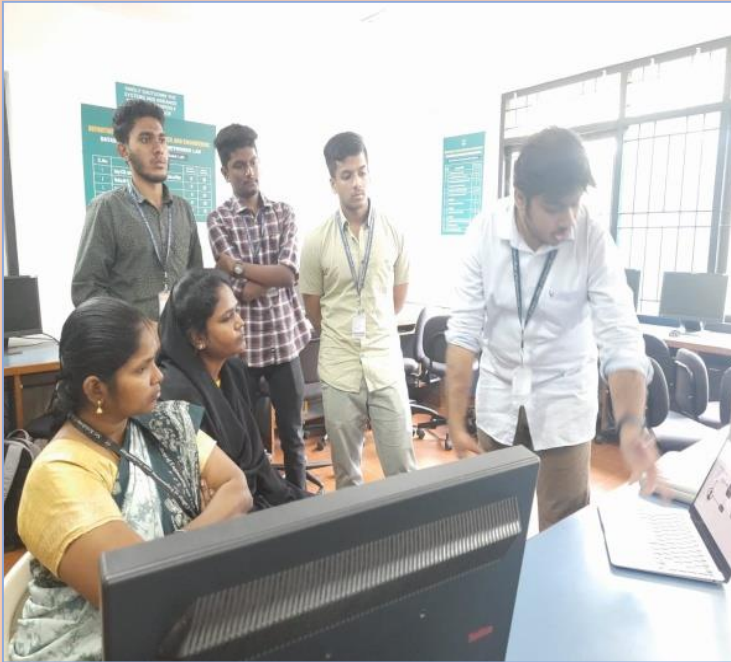
IIC Session was organized for the **First** year students of the Department of **Computer Science and Business Systems** on 02.11.2022. The online session titled “**Awareness on Intellectual Property**” was handled by **Mr. Vinoth Nagarajan**, Senior Engineer - Patent Management, ZF Technical Centre, Hyderabad.

S&H | MEDICAL CAMP



A free **Medical Camp** for teaching and non-teaching fraternity was organized on 17th Nov, 2022 . The camp was organized by **Department of Science and Humanities** in association with **RR Hospital**. The camp was inaugurated by **Dr.V.Ragavi**, Dean of Student Affairs and organized successfully under the guidance of **Dr. A. Indhuleka**, HoD, S&H. Free physical examination along with Blood Sugar, Blood Pressure, BMI and Haemoglobin were provided by RR Hospital with an objective to educate people on the impact of diabetes. Faculty members from all the branches attended the camp.

CSE| NALAIYA THIRAN PROJECT REVIEW



Department of **CSE** conducted **Project Review** as a part of Nalaiya Thiran Programme for the **Final year** students on 15.11.2022. The department mentors and evaluators gave their valuable suggestions for further improvisation of the projects.

CSBS | INDUSTRY EXPERT INTERACTION

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution), Kuniyamuthur, Coimbatore - 641008
Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Cordially invites you for the live session on

ORIENTATION FOR 1ST YEAR STUDENTS OF COMPUTER SCIENCE AND BUSINESS SYSTEMS
(Introductory Session)

Thursday | 3rd November | 2022
2:00 PM

JOIN WITH US

Mr. Magesh B J
Process Analyst
TATA CONSULTANCY SERVICES LIMITED, BANGALORE

Kuniyamuthur, Tamil Nadu, India
WXP4+Q83, BK Pudur, Sugunapuram East,
Kuniyamuthur, Tamil Nadu 641008, India
Lat 10.936873°
Long 76.955695°
03/11/22 03:37 PM GMT +05:30

An Industry Expert Interaction Session was organized for the **First** year students of the Department of **Computer Science and Business Systems** on 03.11.2022. The online session titled “**Introduction to CSBS powered by TCS**” was handled by **Mr.Magesh BJ**, Process Analyst, Tata Consultancy Services Limited, Bangalore.

MECH | HANDS-ON TRAINING FUSED FILAMENT FABRICATION TECHNIQUE



Department of **Mechanical Engineering** organized a Hands on Training Session on '**Fused Filament Fabrication Technique**' on 16.11.2022 for the **Third year Mechanical Engineering** Students. **Mr. SibiChakravarthy**, Founder & Director - Inventive Engineering, Coimbatore was the Resource person of the event. The session focused on FFF Technique Overview, printer software, development of built model & selection of parameters. Live Demo & Hands on Training on 3d printer was also provided for the students.

S&H | WORLD DIABETES DAY



Department of Science and Humanities organized an **Awareness Talk on Diabetes** in the presence of **Dr. V. Ragavi**, Dean of Student Affairs on 17th Nov, 2022. **Dr.R.Radhika**, MBBS, DGO, MS, Assistant Civil Surgeon, CMCH was the guest of the day. The talk provided a support system and highlighted the fact that a wide range of ages, races, and lifestyles are affected by diabetes. The session gave an insight on the different types of diabetes and their risk factors.

S&H | EYE CAMP



A free **Eye Camp** for students were organized by **Sankara Eye Hospital** in association with SKCET on 17th Nov, 2022 to screen for refractive error problems and to screen other major causes of vision impairment and to provide treatment for minor ailments.

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R&D | JOURNAL PUBLICATION | CIVIL

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(ISSN : 0253-7141)

Onsite Wastewater Treatment using Artificially Constructed Wetland Planted with *Canna indica*

S. Sadheesh, R. Balaji, K. Amresh and P. Gokul

Sri Krishna College of Engineering Technology, Department of Civil Engineering, Coimbatore, India

*Corresponding author, Email : sadheesh01@gmail.com

Wastewater treatment in semi-natural systems is a technique that can be applied to natural wetlands such as swamps, medicinal plants and paddy fields, ponds, man-made lagoons, etc. Constructed wetlands especially the marsh areas are equipped for wastewater treatment. Man-made wetlands have various basic shapes with different flow characteristics. The positive response zone of artificial wetlands is the root zone (rhizosphere). This is where physio-chemical and biological processes take place due to the interaction of plants, microorganisms, soil and pollutants. In this study, chemical parameters of the sewage wastewater were analyzed and found contaminants are present in that wastewater. For reducing the contaminants of the sewage wastewater, a wetland was constructed using the plant *Canna indica*. Treatment efficiency varied according to changes in the hydraulic loading rate and temperature applied in the wetland. The plant species results show that the removal efficiency of the *Canna indica* for BOD, COD, SO₄ and Cl⁻ were 59.9%, 61.2%, 49.5% and 48.2%, respectively. The wastewater obtained through wetland construction is within the standard limit so wetland construction using *Canna indica* reduced the risks to the water bodies as well as to the environment.

Mr. S. Sadheesh, Assistant Professor, Department of **Civil Engineering** has published a research article titled “**Onsite Wastewater Treatment using Artificially Constructed Wetland Planted with *Canna indica***” in the Indian Journal of Environmental Protection. It is indexed in Scopus.

R&D | BOOK CHAPTER PUBLICATION | ECE

Dr. M. Ramkumar, Associate Professor, Department of **ECE** has published a Scopus indexed Book Chapter titled “**Quantum Cascade Lasers – Device Modelling and Applications**” as a part of the Book ‘Smart Antennas, Electromagnetic Interference and Microwave Antennas for Wireless Communications’.



ieeexplore.ieee.org/document/9903730

Chapter 13 Quantum Cascade Lasers – Device Modelling and Applications

Publisher: River Publishers [Cite This](#) [PDF](#)

Book Chapter is part of: Smart Antennas, Electromagnetic Interference and Microwave Antennas for Wireless Communications

Editor(s): S. Kannadhasan ; R. Nagarajan ; Alagar Karthick ; Antra Ghosh [Show More](#)

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Abstract	Chapter Abstract:
<p>Chapters & Sections</p> <ul style="list-style-type: none"> » Smart Antennas, Electromagnetic Interference and Microwave Antennas for Wireless Communications » Chapter 1 Speech Signal Extraction from Transmitted Signal Using Multilevel Mixed Signal 	<p>This book covers all areas of smart antennas, electromagnetic interference, and microwave antennas for wireless communications. Smart antennas or adaptive antennas are multi-antenna components on one or both sides of a radio communication connection, combined with advanced signal processing algorithms. They've evolved into a critical technology for third-generation and beyond mobile communication systems to meet their lofty capacity and performance targets. It seems that a significant capacity gain is achievable, particularly if they are employed on both sides of the connection. There are several essential characteristics of these systems that need scientific and technical investigation. Included in the book are beamforming, massive MIMO, network MIMO, mmwave transmission, compressive sensing, MIMO radar, sensor networks, vehicle-to-vehicle communication, location, and machine learning.</p>
Page(s): 175 - 184	Publisher: River Publishers

R&D | PAPER PUBLICATION | ECE

Dr. S. P. Premnath, Assistant Professor, Department of ECE has published a Scopus indexed Conference paper titled “**A novel approach for Image Restoration Using Convolution Network-Based Image De-Noising Technique**” in AIP Conference Proceedings.

10.1063/5.0108299

AIP Publishing Conference Proceedings

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Free • Published Online: 14 October 2022

A novel approach for image restoration using convolution network-based image denoising technique

AIP Conference Proceedings 2527, 040003 (2022); <https://doi.org/10.1063/5.0108299>

S. P. Premnath^{1,a)}, J. Arokia Rengit^{2,b)}, P. Shanmugapriya^{3,c)}, T. Joel^{4,d)}, K. Muthukumar^{5,e)}, and C. Nayanatara^{3,f)}

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PDF E-READER ABSTRACT TOOLS SHARE

TOPICS

- Atmospheric dynamics
- Computer simulation
- Signal processing
- Optical imaging

ABSTRACT

When imaging a target in space, atmospheric turbulence might change the direction of the path of light. This might be caused by the random motion of the turbulent medium leading to drastic distortion of the image. In order to correct the temporally varying blur, reduction spatially, and geometric distortion, a blind deblurring atmospheric turbulence based on the convolutional network is proposed. This includes image reconstruction subnetwork, asymmetric U-net, and feature extraction noise suppression block (FENSB). In the U-net, instead of the traditional convolution layer that is normally used, a deblurring noise suppression block (DNSB) is used. The basic idea behind this methodology is to reduce the noise before deblurring occurs. Hence the aspect of noise suppression before deblurring is carried out by the DNSB block along with FENSB. At the time of convolutional encoding,

R&D | ARTICLE PUBLICATION | MECH

Contents lists available at ScienceDirect

Ceramics International

ELSEVIER journal homepage: www.elsevier.com/locate/ceramint

EXPERIMENTAL INVESTIGATION ON SURFACE MORPHOLOGY AND RECASTING LAYER OF Si_3N_4 -TiN COMPOSITES MACHINED BY DIE-SINKING AND ROTARY EDM

L. Selvarajan^{a,*}, R. Rajavel^b, K. Venkataramanan^c, V.P. Srinivasan^d

^a Department of Mechanical Engineering, Mahendra Institute of Technology (Autonomous), Mallasamudram, Namakkal District, 637503, Tamil Nadu, India
^b Department of Mechanical Engineering, Mahendra Institute of Engineering and Technology, Mallasamudram, Namakkal District, 637503, Tamil Nadu, India
^c Department of Mechanical Engineering, Mahendra Polytechnic College, Mallasamudram, Namakkal, 637503, Tamil Nadu, India
^d Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Kumanathur, Coimbatore, 641008, Tamil Nadu, India

ARTICLE INFO

Keywords: Craters, Recast layer, Surface topography, Micro-cracks, Porosity

ABSTRACT

Si_3N_4 -TiN composites have extensive manufacturing applications because of their first-rate mechanical and thermal properties. Conversely, they are very demanding on machines that use conventional practices because of their superior strength and hardness. Electrical discharge machining is a viable substitute for machining of Si_3N_4 -TiN composites through electrical erosion. However, very few studies have been conducted on the machinability and surface characteristics of electrical-discharge-machined composites. This study focuses on the materials processing characteristics of a Si_3N_4 -TiN composite using rotary EDM and die-sinking EDM performed with a Cu electrode. In addition, the surface and cross section of the subsurface of the composite were examined, along with energy dispersive X-ray analysis, to identify the elements present on the machined surface. It was found that the high level of hardness and low level of toughness of the Si_3N_4 -TiN composite contributed to the presence of microcracks, globules, pores, recast layers, and craters on the EDMed surface. The recast layer thicknesses of the die-sinking EDM (optimum hole, 106 μm ; best hole, 151 μm ; worst hole, 166 μm) and rotary EDM (optimum hole, 53 μm ; best hole, 55 μm ; and worst hole, 58 μm) were examined. In addition, the presence of pores and ablation increased significantly during the rotary EDM process. Rotary EDM parameters capable of producing a minimum white layer thickness were also investigated. Finally, the porosity levels were estimated according to the number of pores using ImageJ software. For the die-sinking EDM, the estimated porosity values for the optimum, best, and worst holes were 14.989%, 19.525%, and 21.706% respectively and for the rotary EDM, these values were 24.873%, 33.04%, and 37.99% respectively.

Dr. V P Srinivasan, Assistant Professor, Mechanical Engineering has published a scientific article entitled ‘**Experimental investigation on surface morphology and recasting layer of Si_3N_4 -TiN composites machined by die-sinking and rotary EDM**’ in Ceramics International. It is a SCI, WoS and Scopus Indexed Journal with an Impact Factor of 4.527.

R&D | FACULTY PARTICIPATION | CIVIL



Dr. S. Ramakrishnan and Mr. S. C. Boobalan, faculty members, Department of Civil Engineering, participated in the inauguration of the BAI academy for learning and skill training "BLAST". BLAST is offering a six-month course to enhance the theoretical and field exposure of fresh graduate Civil Engineers.

WRITE IT RIGHT

LAWYER	ATTORNEY
<p>Lawyers are legal professionals who are trained in the law. Such professionals might offer legal guidance to another, or might not.</p>	<p>Attorneys are also lawyers. They are people who attend law school and presumably wish to practice law as a legal professional, pursuing it as a profession.</p>
<p style="text-align: center;">Examples</p> <ul style="list-style-type: none"> Her <u>lawyer</u> made a statement outside the court. We employed a <u>lawyer</u> to straighten our legal tangle. Have you consulted your <u>lawyer</u> about this? I advise you to withdraw your allegation before I contact my <u>lawyer</u>. He was the only <u>lawyer</u> who would touch the case. 	<p style="text-align: center;">Examples</p> <ul style="list-style-type: none"> She was made her father's <u>attorney</u> when he became ill. As an <u>attorney</u>, he represented the poor free of charge. <u>Attorney</u> Robert Rivas answers yes to both questions. The car seller agreed to escrow the sum of \$2000 with her <u>attorney</u>. In November, the millwrights' local voted to hire me as their <u>attorney</u>.

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PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

My favorite aspect of SKCET is its faculty members and learning resources. Being knowledgeable, inspiring, and approachable, my tutors provided students with much guidance and mind-opening perspectives. Their dedication to education helps us develop academic interests and grow intellectually. I was able to enjoy all my classes, and I feel better about having to present in front of the class because I have great and supportive faculty members. Being involved in college activities also helped me to create some meaningful memories at SKCET and connect me with a lot of people. My experience in SKCET has helped me grow in a lot of ways and now I am excited to look for new challenges in a new place while pursuing my dreams. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team.



**JEEVA S, ECE
(2022 Batch),
Valuelabs**



**VIGNESHWAR M,
IT (2021 Batch),
Trimble**

Sri Krishna Institutions has provided me with a great environment and wonderful opportunity to learn and excel in academics as well as extracurricular activities. Method of teaching and the curriculum here made me secure a place in the corporate world. I have found the campus facilities to be excellent here; there are so many places to study and so many places to explore. You can go to the library for quiet study and there are also more relaxed spaces across campus for group study too. My sincere thanks to our Principal Madam, Advisors, Professors and Placement team who made my college life a memorable one. I am lucky to be a part of this great institution.

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CSBS | BoS MEMBER @ KIT'S COLLEGE

Lingaraj Hadimani is presenting

Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur

Lingaraj Hadimani is presenting

Members (Academics) - Board of Studies

Name and Institution	Name and Institution
Dr. Balkrishnan Subramanian Professor and Head, Department of CSBS, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India	Dr. V. B. Kakade, Head, Dept of Economics (Retd), Shivaji University, Kolhapur (Fundamentals of Economics)
Dr. Medha A. Shah, Head CSE, Walchand College Of Engineering, (WCE), Sangli	Dr. Manik Awale, Asst.Prof. Savitribai Phule University, Pune (Statistics, Probability, Sampling and Statistical Methods)
Dr. B. S. Mahanand Head, Department of CSBS, Sri Jayachamarajendra College of Engineering, Mysuru – 570 006, Karnataka	Dr. Kavita Moholkar, Head CSBS, JSPM's RSCoE, Pune
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Dr. A.V.Mololkar, Associate Professor, Dept of Physics, Shivaji University, Kolhapur (Applied Physics)	Dr. K.R.Desai, Head E&TC, Bharati Vidyapeeth CE, Kolhapur (Principles of Electronics Engineering)
	Prof. Meenaxi Raman, Head, Dept of Humanities and Social Sciences, BITS, Pilani (Business Communications and Value Science)

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Shashikant Kore

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Shivaji Dhole

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Chaitanya Pednekar

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Dr. S. Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems** has acted as Academic Member in Board of Studies (BoS) Meeting conducted at Department of Computer Science Business Systems, KIT's College of Engineering and Technology, Kolhapur, Maharashtra, on 12.11.2022.

M.TECH. CSE |SIH EVALUATOR



Dr P. Kavitha Rani, Professor and Head, Department of **M.Tech Computer Science and Engineering** has been awarded with the certificate for her exceptional contribution as a Pre-Screening Evaluator in **Smart India Hackathon 2022**, conducted on **August 25th to 29th** organised by **Ministry of Education, Government of India**.

WORD OF THE WEEK

Ravenous (Adjective) : extremely hungry.

Synonyms : very hungry, starving, starved, famished.

Antonyms : satisfied, full.

Eg : "I'd been out all day and was ravenous."



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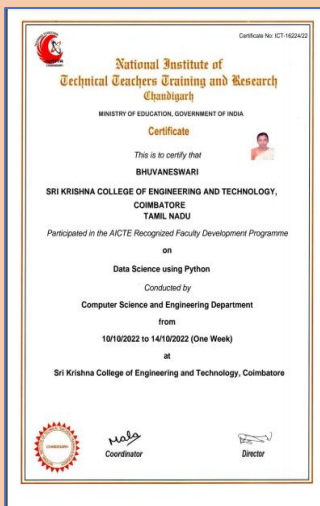
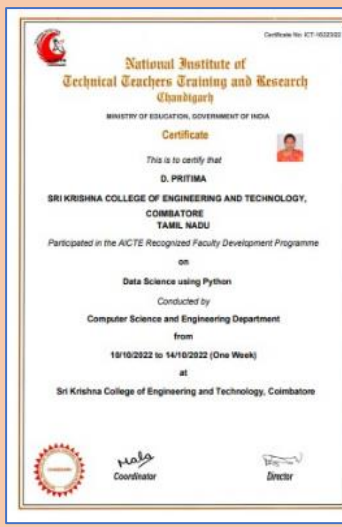
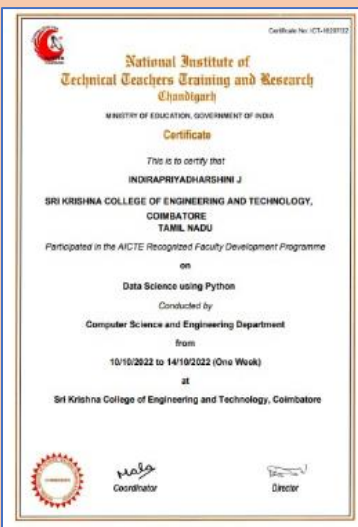
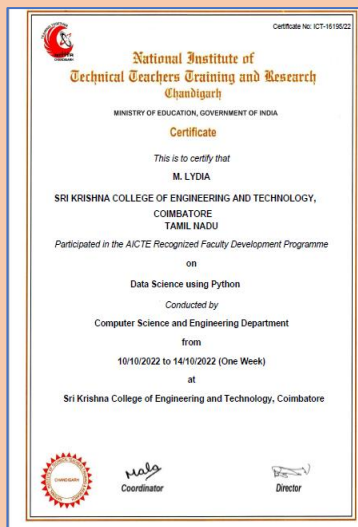


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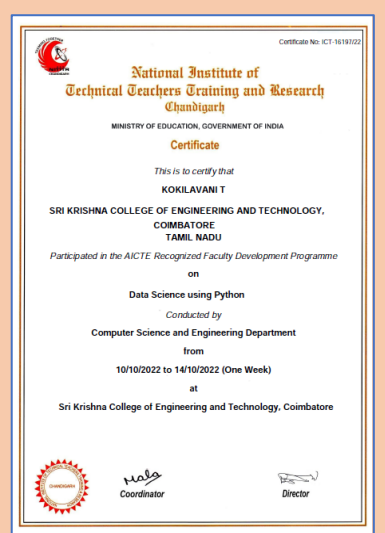
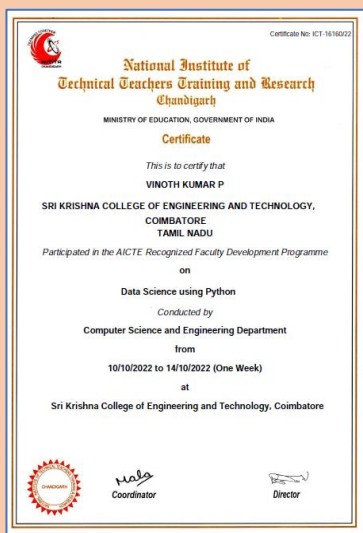
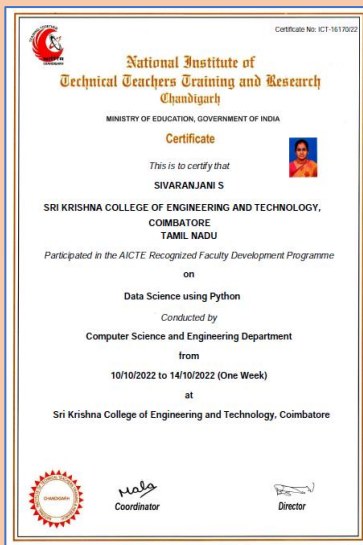
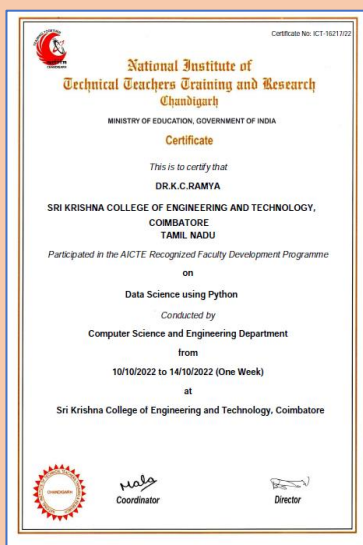
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MCT | FDP ON DATA SCIENCE USING PYTHON



Dr.M.Lydia, HoD, MCT, Dr.D.Pritima, Dr.J.Indira priyadharshini, Ms.S.Kannaki, Ms.S.Nithya Priya, Dr.M.Bhuvanewari, Ms.K.Ananthi and Mr.T.Vignesh faculty members of **MCT** have proactively participated in the one week Faculty Development Program on “**Data Science using Python**”, conducted by NITTTR- Chandigarh, from 10th October to 14th October 22.

EEE | FDP ON DATA SCIENCE USING PYTHON



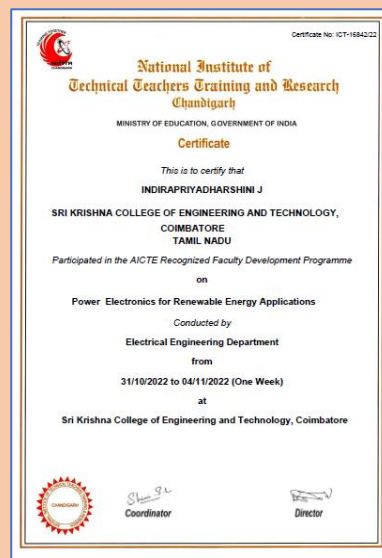
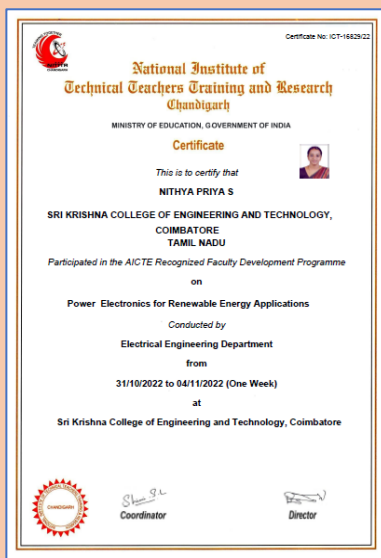
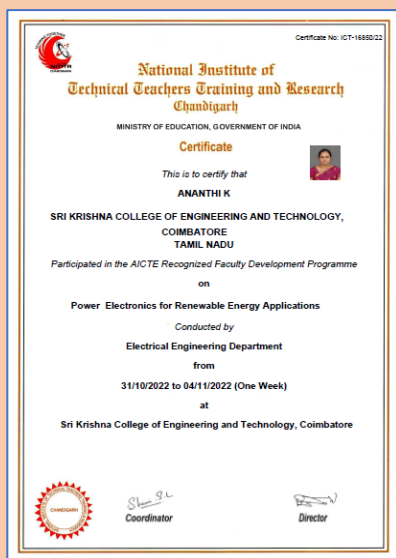
Dr.K.C.Ramya Professor and Head, **EEE** Department and **Dr.S.Sivaranjani**, **Dr.J.Karthika**, **Dr.P.Vinoth Kumar**, **Dr.T.Kokilavani**, **Ms.N.Subhalakshmi** faculty members of **EEE** Department have participated in the Online AICTE Recognized Faculty Development Programme on **“Data Science using Python”** organized by Computer Science and Engineering Department NITTTR,Chandigarh.

MECH | COURSE ON ROBOTICS SIMULATION FOR MANUFACTURING



Dr. V P Srinivasan, Assistant Professor, Mechanical Engineering has successfully completed a course on ‘Simulation Software – RoboAnalyzer and RoboDK’ under the Training of Trainers Program by Nan Mudhalvan scheme from SkillSonics.

MCT | FDP ON POWER ELECTRONICS



Ms.K.Ananthi, Dr.J.Indirapriyadarshini, Ms.S.Nithya Priya faculty members of MCT have participated in the one week Faculty Development Program on “Power Electronics for Renewable Energy Applications”, conducted by NITTTR Chandigarh, from 31st October to 4th November 2022.

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EEE | CONFERENCE PRESENTATION



Mr.R.Kavin, Assistant Professor, **EEE** Department has presented a research paper entitled **“An Integration Design Model for Virtual Product Development”** in the Flagship International Conference Series of IEEE Mysore at JSS Science and Technology University, Mysuru.

HEALTHOGRAPHICS

HOW TO PROTECT YOUR EYES FROM DIGITAL STRAIN

65% of Americans suffer from Digital Eye Strain

Also called **Computer Vision Syndrome**, common symptoms include blurred vision, eyestrain, dry eye, headaches, and neck and shoulder pain

96% spend more than 2 hrs/day using digital devices

7 HRS / DAY
The average American spends 7 hrs / day working on a computer

TAKE A BREAK...
The average digital device user blinks 5-8 times / minute

Follow the **20-20-20 Rule**
You should **Blink 15 times a minute** for optimal eye health

MODIFY YOUR WORKSPACE...
Overhead lighting should match the brightness of your monitor

Your eyes should be **20 – 28"** from your monitor and **4 – 5"** above the center of the screen

Maintain good posture

ONE DEVICE AT A TIME...
77% of people with digital eye strain use 2 or more digital devices simultaneously

TALK TO YOUR DOCTOR
90% of patients don't discuss their digital device use with their eye doctor

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MCT| UPCOMING EVENT

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ADDITIVE MANUFACTURING FOR ENVIRONMENTAL SUSTAINABILITY

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25

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IITDM


Dr. Pankaj Kumar
University of Mexico


Dr. Rajesh Ranganathan
CIT


Dr. Arun Tom Mathew
VIT


Dr. V.Sivaraman
EGSPEC


Dr. V.Ezhilmara
MEPCO

Coordinators:
Dr.D.Pritima
Dr.G.Veerappan

Co-Coordiators:
Dr.R.Gopinathan
9003567752
Dr. R.Manikandan
9842885510

REGISTRATION LINK:
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NO REGISTRATION FEES