



**SKCET**



**4<sup>th</sup> to 12<sup>th</sup> November, 2021**



**Smt S Malarvizhi**  
Chairperson & Managing Trustee  
Sri Krishna Institutions Coimbatore

**e – Academia Special Issue: 87**

**Editor-in-Chief**

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Principal

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# INSIDE THE ISSUE



- FIRST YEAR ORIENTATION PG 03 - 17
- MBA- FIRST YEAR ORIENTATION PG 18 - 22
- FIRST YEAR INDUCTION PROGRAMME PG 23 - 26
- STUDENTS CERTIFICATIONS PG 27 - 29
- AICTE SPONSORED FDP PG 30 - 35
- EVENTS PG 36 - 39
- RESEARCH & DEVELOPMENT PG 40 - 42
- TRAINING & PLACEMENT PG 43 - 44
- TUTOR WARD MEETING PG 45 - 46
- FACULTY CERTIFICATIONS PG 47 - 50
- FACULTY PROGRESSION PG 51 - 52
- CONFERENCE PRESENTATION PG 53 - 54
- CREATIVE CORNER PG 55 - 56



## FIRST YEAR ORIENTATION



## SKCET | FIRST YEAR ORIENTATION PROGRAMME

The Management, Principal and Faculty of  
**Sri Krishna College of Engineering  
and Technology**

Cordially invite you for the  
**ORIENTATION  
PROGRAMME  
FOR  
FIRST YEARS**

on Wednesday, 10<sup>th</sup> November 2021 at 10:30 AM

**Mr.Subramanian S**  
Country Lead - University Program  
Silicon Labs, Hyderabad  
has kindly consented to be the Chief Guest

**Smt.S.Malarvizhi**  
Chairperson & Managing Trustee  
Sri Krishna Institutions  
will preside

in the presence of  
**Dr.J.Janet**  
Principal  
SKCET






**WELCOME  
TO  
SRI KRISHNA INSTITUTIONS**



**Born  
TO  
shine**

### FIRST YEAR ORIENTATION PROGRAMME

#### 'Born to Shine'

**Sri Krishna College of Engineering and Technology** organized a virtual **Orientation Programme** for the newly admitted **B.E/B.Tech & M.Tech CSE** students on 10.11.2021. The major objective of the programme was to enable the students to make essential connection with studies and to create a foundation for positive relationships between the parents and the Institution.

## SKCET | FIRST YEAR ORIENTATION PROGRAMME



**Smt S Malarvizhi**  
Chairperson & Managing Trustee  
Sri Krishna Institutions Coimbatore

### **WELCOME & PRESIDENTIAL ADDRESS BY CHAIRPERSON MADAM**

Respected **Chairperson Madam** welcomed the dignitaries, chief guest, parents, the budding engineers and faculty members and delivered the Presidential Address. She ignited the young minds to set clear goals, prioritize things, identify strengths and develop communication skills.

## SKCET | FIRST YEAR ORIENTATION PROGRAMME



### CHIEF GUEST ADDRESS

**Mr. Subramanian.S**, Country Lead, University Program, Silicon Labs, Hyderabad was the Chief Guest of the event. He motivated the fresh minds to excel in life with the attitude '**Never Ever Give up**'.

**INDEED - A life Mantra!**

**I** Impart goals and incorporate good practices

**N** Never be afraid of challenges & failures

**D** Do not miss any opportunities

**E** Enjoy

**E** Enhance your Personality

**D** Develop your Skills

The persuasive words of our chief guest ignited the striplings to step forward to focus on a fresh beginning.



## SKCET | FIRST YEAR ORIENTATION PROGRAMME



**Dr.J.Janet**  
Principal, SKCET

### **INSIGHTS OF THE ACADEMIC JOURNEY AT SKCET**

Principal Madam **Dr.J.Janet** with great pride briefed the description of the institute which included the motto, history, reputation of the college and the recent achievements. Madam motivated the students to uplift themselves in technical fields, projects, soft skills, curricular and co curricular activities.

***Goals mapped with dedication take us miles away!***

## SKCET | FIRST YEAR ORIENTATION PROGRAMME



**Dr.V.Ragavi**  
HOD-S&H, SKCET

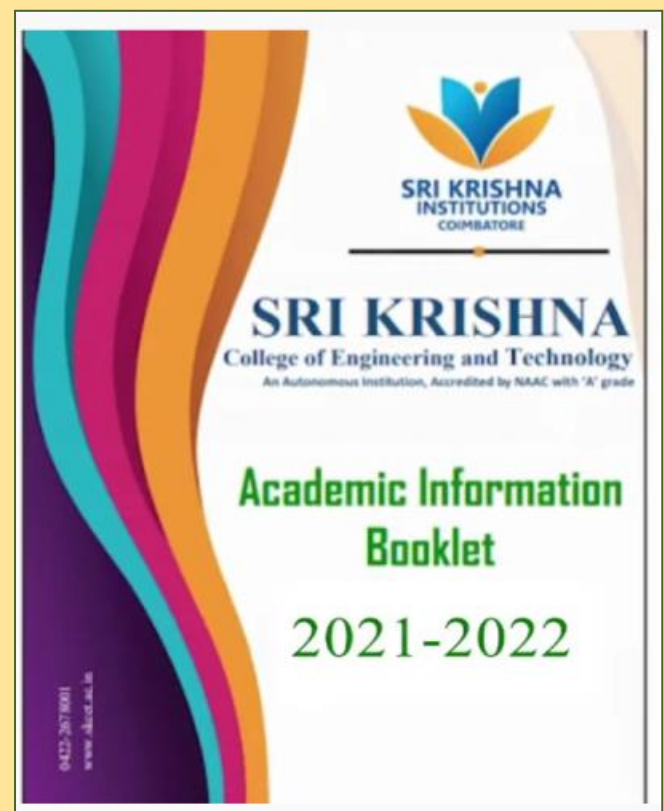
### DEPARTMENT SPECIFICS

**Dr.V.Ragavi, HoD, S&H** highlighted the department specifics and propelled the students to realize the true potential of the department to enhance themselves and to acquire basic strength for an enviable future.

***Beginning makes a lot of difference. So keep your beginning focused, optimistic and full of dedication!***



# SKCET | FIRST YEAR ORIENTATION PROGRAMME



## RELEASE OF INFORMATION BROCHURE

*Simplicity carried to an extreme, becomes elegance!*

Our Beloved Principal Madam **Dr.J.Janet** with great delight released the Information Brochure which flaunts the Institutional highlights.

## SKCET | FIRST YEAR ORIENTATION PROGRAMME



### VIRTUAL CAMPUS TOUR

First year students had a virtual treat of campus trip to SKCET that sparked intense students' interest to get a glimpse of the college.

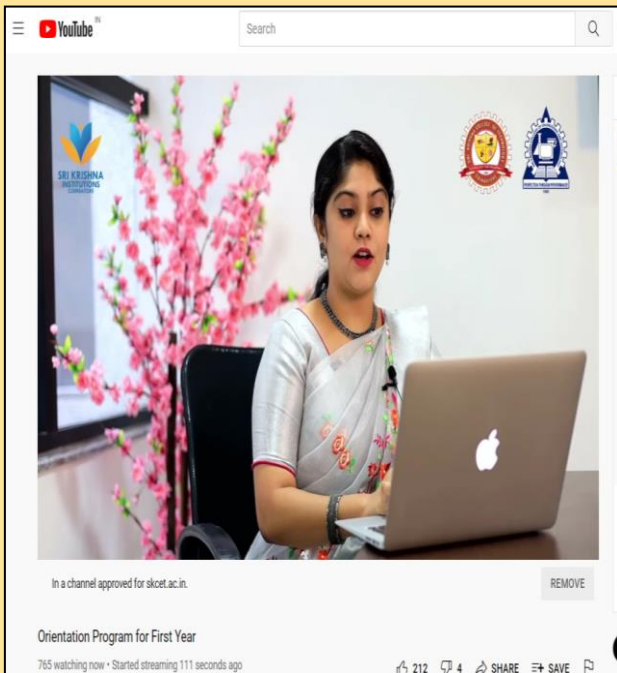


# SKCET | FIRST YEAR ORIENTATION PROGRAMME - GLIMPSES





# SKCET | FIRST YEAR ORIENTATION PROGRAMME - GLIMPSES





# SKCET | FIRST YEAR ORIENTATION PROGRAMME - GLIMPSES



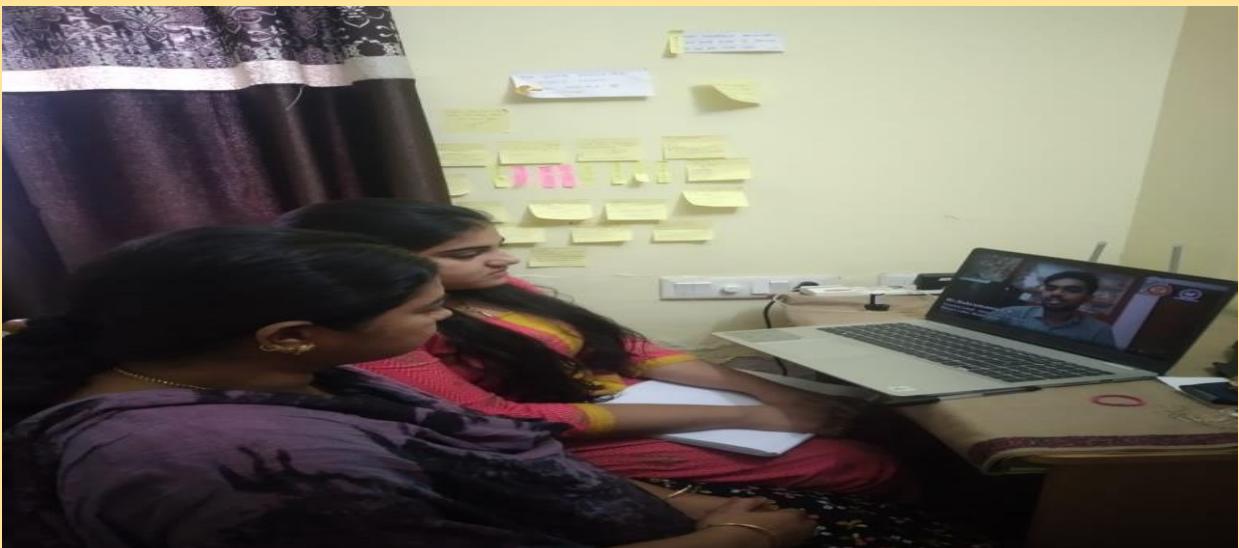


## SKCET | FIRST YEAR ORIENTATION PROGRAMME | PARENTS & STUDENTS WATCHING LIVE STREAMING-GLIMPSES





## SKCET | FIRST YEAR ORIENTATION PROGRAMME | PARENTS & STUDENTS WATCHING LIVE STREAMING-GLIMPSES



## SKCET | FIRST YEAR ORIENTATION PROGRAMME - FEEDBACK

The orientation program was great . And I came to know more about this college . Also learnt values from this orientation. Thank u

12:47

+91 97515 26863

~Varshu...

The orientation program was a good start and its was a great learning about our college. Looking forward to learn and experience a lot here.And eagerly waiting to achieve my goals...And thank you so ...much for a amazing start...

12:49

+91 99949 77285

~Tharakeshwari Sankaran

This orientation gave us a very clear idea about the SKCET institution and it also has shown us the opportunities that we have here.So thank you.

12:49

+91 93632 00217

~Yamini ✨

This orientation was really a great start and we get know more information about our placements and other opportunities. Thank you!

12:50

+91 93428 74722

~Sri Dharshini

The orientation was a good start.Looking forward to learn and create more memories there.Thank you

12:50

+91 80728 99187

~Sabari

The orientation program helps me to know about the institution and it helps me to think about my future

12:51





## SKCET | FIRST YEAR ORIENTATION PROGRAMME - FEEDBACK

**IT B - RAGAVENDIRAN S**

Session was awesome 👍 1:12 PM

**IT B - KALAI VARSHAA G R**

Well explained and got a clear idea about the college sir.. and the speech given by the chief guest was really motivating 1:12 PM

**IT B - PRANESH SJ**

Great orientation! Thanks for such a great event. 1:12 PM

**IT B - KARTHICK KUMAR C**

Explained in a clear manner Gave a good clarity 1:15 PM

**IT B - PRAVEEN K**

Great orientation! Thank you for such a great event sir.. 1:18 PM

**IT B - LOGADHEEP N**

Glad to be a part of the institution... inspired by the speech of the chief guest! I got clarity about the institution. Overall, It was a fantastic session 1:18 PM







## MBA - FIRST YEAR ORIENTATION

# SOM | ORIENTATION PROGRAMME



## SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution/Affiliated to Anna University, Chennai  
Kuniamuthur, Coimbatore - 641 008



### SCHOOL OF MANAGEMENT

Cordially invites you for the I MBA Orientation (Batch 2021-23) programme

#### LEARN TO SUCCEED

*Learning is the mother of Leadership*

Nov 11, 2021,  
11.00 AM - 11:40 AM



**Ms. Kamala Balasubramaniam,**  
Marketing Manager,  
Godrej & Boyce, Mumbai



**Ms. Megha Suresh,**  
Engagement Financial Advisor,  
Deloitte, Bengaluru



#### MANAGING CORPORATE EXPECTATIONS

*Shape your Goals*

Nov 12, 2021,  
9:30 AM - 10:30 AM



**Mr. Venkatesh Natarajan**  
Ex. Sr. GM, (Advt) THE HINDU GROUP  
Mentor, VeiBa Consultancy,  
Coimbatore

#### READ TO LEAD

*Importance of reading*

Nov 12, 2021,  
11.30 AM - 12:30 PM



**Mr. Kannan Manoharan**  
Customer Development Manager,  
Hindusthan Unilever Limited, Chennai



#### RETAIL THERAPY

*Survival of the fittest*

Nov 12, 2021,  
2.00 PM - 3.00 PM



**Mr. S. Shriram**  
Vice President - Sales & Marketing,  
Specsmakers, Chennai

#### RETAIL 3.0

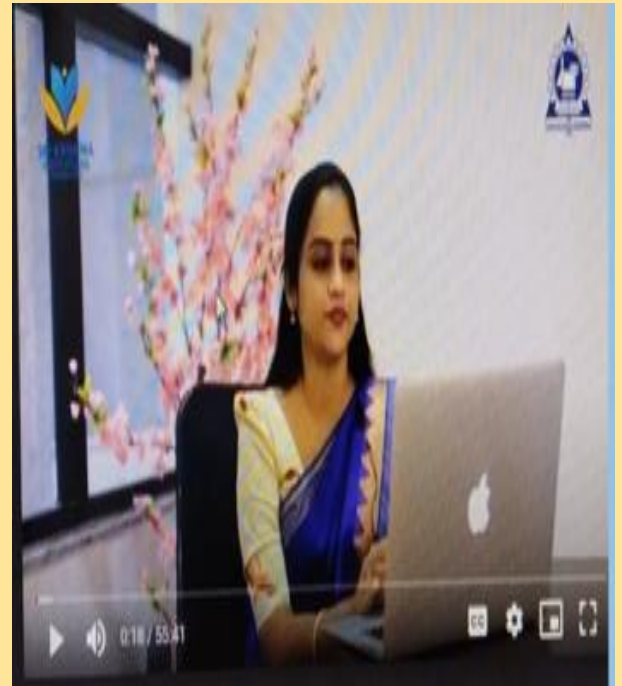
*Build your Brand Identity*

Nov 12, 2021,  
3.00 PM - 4.00 PM





## SOM | ORIENTATION PROGRAMME



**Orientation** programme for **First** year **MBA** – 2021-23 batch was hosted by **School of Management**, Sri Krishna College of Engineering and Technology on 11<sup>th</sup> November 2021. All the First year MBA students virtually participated in this programme.

The programme was patriotically started with Tamil Thai Vazhthu followed by Prayer song to invoke the blessings of the God Almighty.

## SOM | INAUGURAL ADDRESS



**Dr. J. Janet**  
Principal, SKCET

Our esteemed Principal Madam **Dr. J. Janet**, inaugurated the First year **MBA** programme and delivered the inaugural address. The significance of the key qualities for an effective management professional and insisted on resilience, innovation and readiness for transformation, the pride achievements of the institution with various top National level rankings, shared the remarkable contributions of alumni to the present first year students. Madam motivated the budding Managers to take part in the National and Global level competitions to compete and explore knowledge and to have good networking with different people.



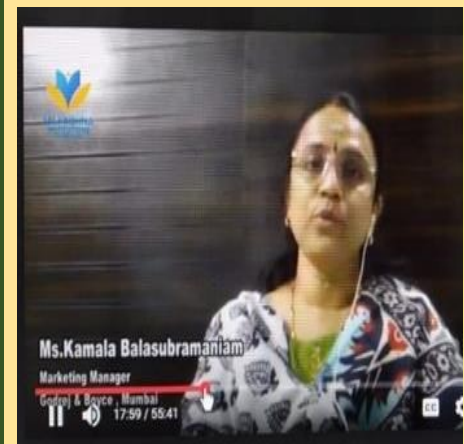
## SOM | HOD ADDRESS AND GREETING



**Dr. P. Thamaraiselvi**, Head – **School of Management**, extended a warm welcome to the dignitaries and the MBA aspirants. She has presented about the need to explore the skill sets, attitude building, self-empowerment, art of converting experience into learning, students connect to corporate and activity- based learning.

## SOM | CHIEF GUEST ADDRESS

**Ms. Kamala Balasubramanian**, Marketing Manager, Godrej & Boyce, Mumbai was the Chief Guest. She exclusively addressed the gathering about the futuristic work expectations of the industry and needful readiness among the budding managers. She highlighted the need for work and life balance, self-discipline and the need of resilience and agility. She also pinpointed the expectations of the current industries with lots of live industry-based scenario.

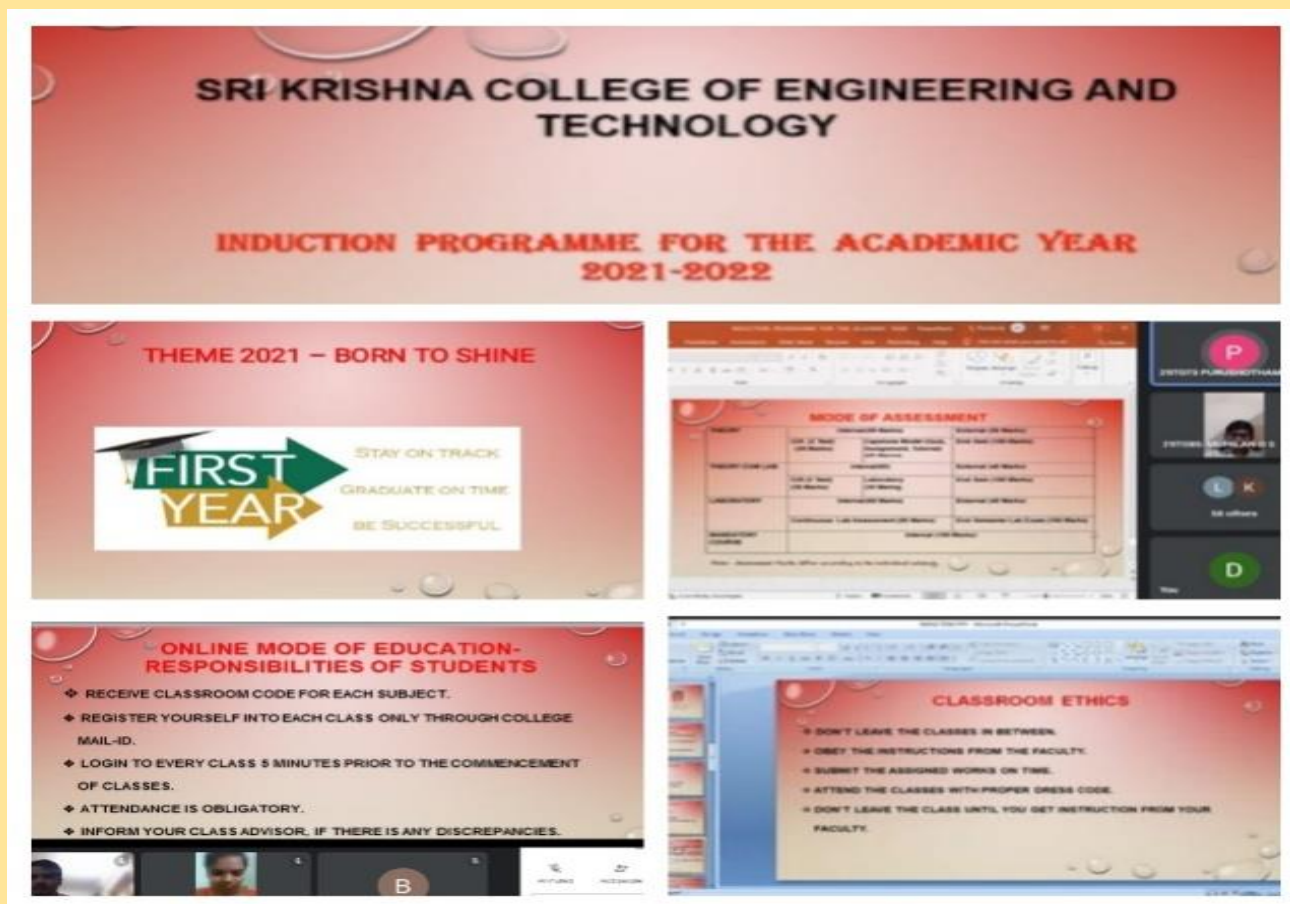




## FIRST YEAR INDUCTION PROGRAMME



## ONE WEEK INDUCTION TRAINING PROGRAMME FOR THE FIRST YEAR STUDENTS



### *A glide of smooth transition to the Engineering course*

Department of **Science and Humanities** organizes one week Induction Training Programme for the **First** year students. The main objective of this programme is

- to make incumbents learn about the various dimensions of engineering, career opportunities, institutional policies and practices
- to inculcate ethos and culture of the institution promote bonding between faculty members and students to open a new horizon of life
- to expose the students to a sense of higher purpose and self-exploration
- to acclimatize with the new environment.

# DEPARTMENT HIGHLIGHTS BY ACADEMIC LEADERSHIP TEAM

**About the Department**

**UG, P.G & M.Tech**  
B.E CSE - 180, M.E CSE - 20,  
M.Tech 5 years - 60

**Student Intake**

**Faculty**

**FACULTY STRENGTH**  
Professors - 5,  
Associate Professors - 10  
Assistant Professors - 30

**Inception**  
1998  
U.G CSE, P.G M.E CSE and M.E  
Software Engineering.

**Ph.D Supervisors**  
Recognition: 2007

**SUPERVISORS**  
Professors - 6  
Associate Professors - 2

**Best Practices of our Department**

- Select One Patent,
- Select One Article
- Encouraging students to attend all technical activities like Hackathons.

**Clubs of mechanical engineering**

- Mechanical engineering association – SKCET student's
- The Institute of Indian Foundrymen – SKCET student's chapter
- Institute of Engineers – SKCET student's chapter
- Society of Automation and Robotics – SKCET student's chapter
- Energy club
- Society of Automotive Engineers India
- IPR cell
- Higher Education cell – SKCET
- Coimbatore Productivity Council – SKCET student's chapter

**Student's Achievements**

- Indhu K & team won Inspiration Award in SIH 2018 SE
- Mounkarthick & team won 2<sup>nd</sup> Prize in INSQAQ Event, Kolkata
- Shanmuga Priya & team won 1<sup>st</sup> VISAI Competition, Vel Tech.
- Aaravind Babu & team won Championship Trophy at TCE
- Hari Prasanth & team won Championship Trophy at CIET
- Divyashankari won 1<sup>st</sup> Place University Inter-zonal JI Tournament 2019-20

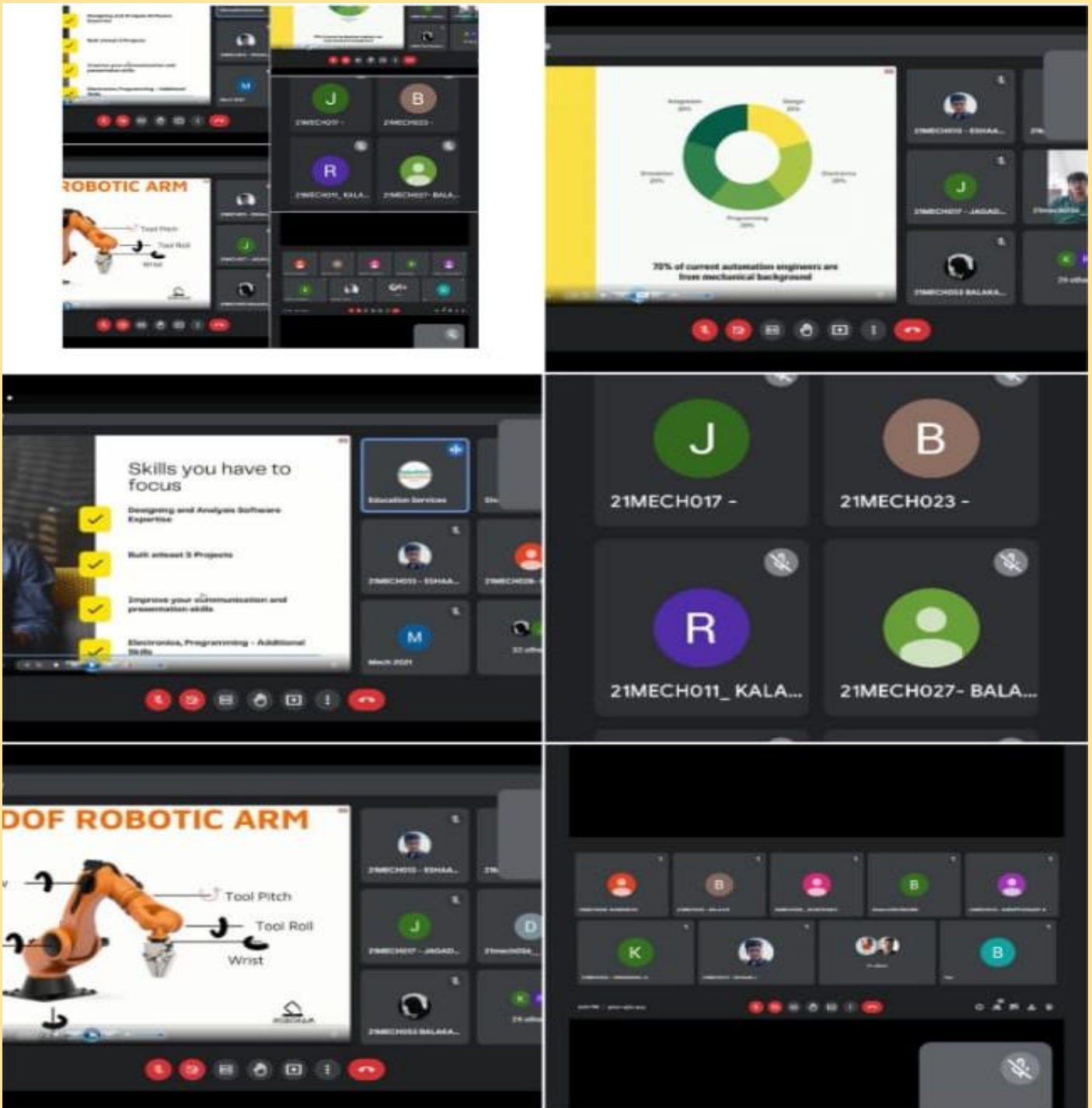
**Emerging Electives**

S.No.	Course	L.T.P	Credit	Prerequisites	Co-requisites
1	Applied Soft Computing Techniques	3:0:0	3	3	EEEC
2	Industrial Design for Mechanical Engineers	3:0:0	3	3	EEEC
3	Data Analytics for Mechanical Engineers	3:0:0	3	3	EEEC
4	Transport Systems and Mobile Learning	3:0:0	3	3	EEEC
5	Smart City	3:0:0	3	3	EEEC
6	Thermal and Fluid Machinery	3:0:0	3	3	EEEC

Heads of various Departments addressed the First year students and shared information about the facilities available and various initiatives taken by the Department.



## A SESSION WITH ALUMNI AND INDUSTRIAL EXPERTS



A platform to share professional knowledge and facilitate career development and guidance.



## STUDENT CERTIFICATIONS



# AI&DS | INTERNET OF THINGS MASTER CLASS



Following **Second** year students of the **Artificial Intelligence and Data Science** have successfully completed a Training program entitled “**Internet of Things Master Class**” organized by Pantech e Learning Pvt Ltd, Chennai from 19.09.2021 to 18.10.2021.

S. No.	Name
1	ANCY JEFRIJA J
2	PRABITHA P
3	SANTHIYA A
4	SAPARNA K
5	SRI HEMA N

## AI&DS | CERTIFICATE OF APPRECIATION



**P.Sharves**, student of **Second year Artificial Intelligence and Data Science** has participated and contributed Valuable Services in the **Beat Covid Campaign** organized by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, Hyderabad.

## CSBS | CERTIFICATE OF APPRECIATION



**Athidya U** and **Ashish Babu Z** students of **Second year Computer Science and Business Systems** have participated and contributed valuable services in Beat Covid Campaign initiated by **Mahatma Gandhi National Council of Rural Education**, Department of Higher Education, Ministry of Education, Government of India, Hyderabad during Covid Pandemic in June 2021.



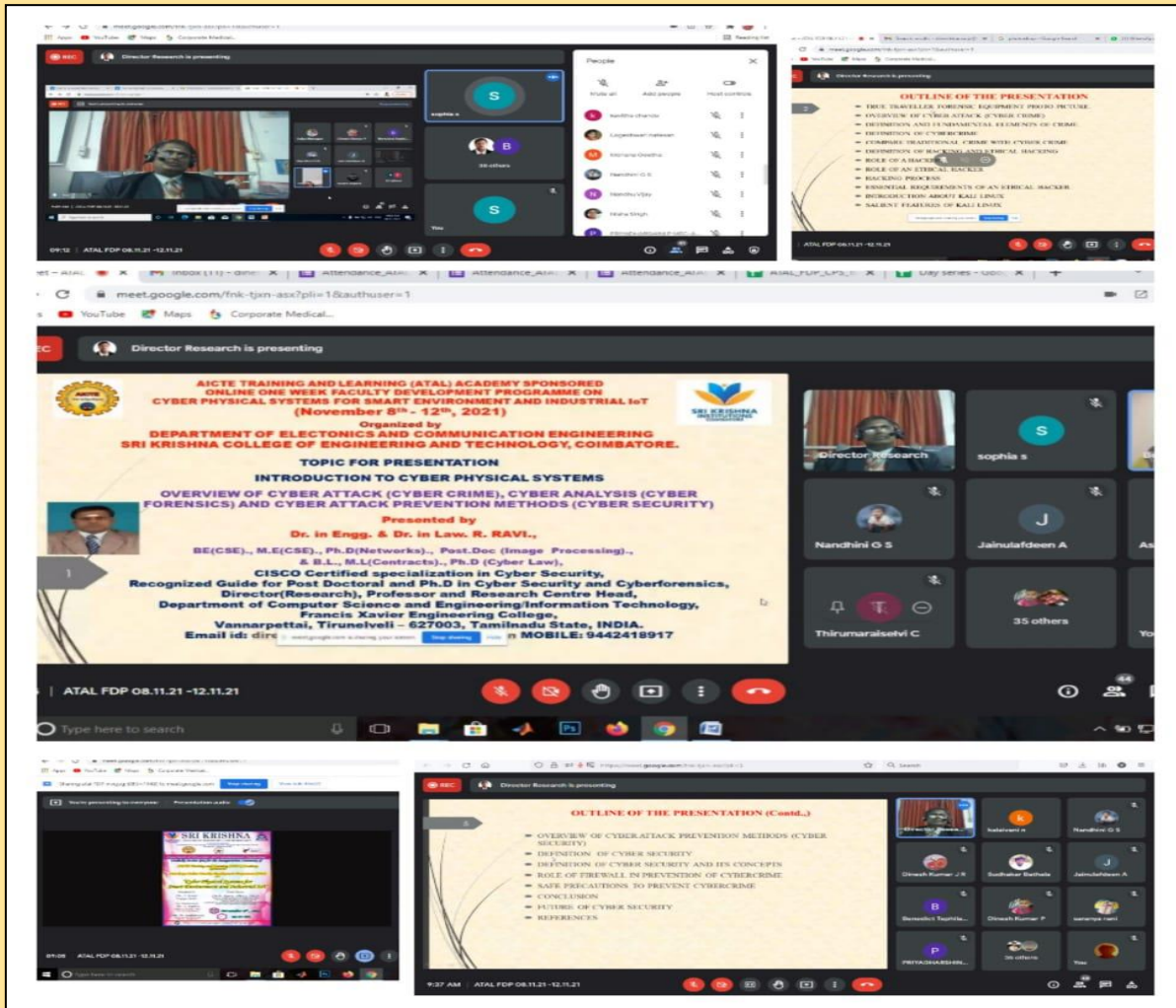


FACULTY DEVELOPMENT PROGRAM



**AICTE SPONSORED FDP**

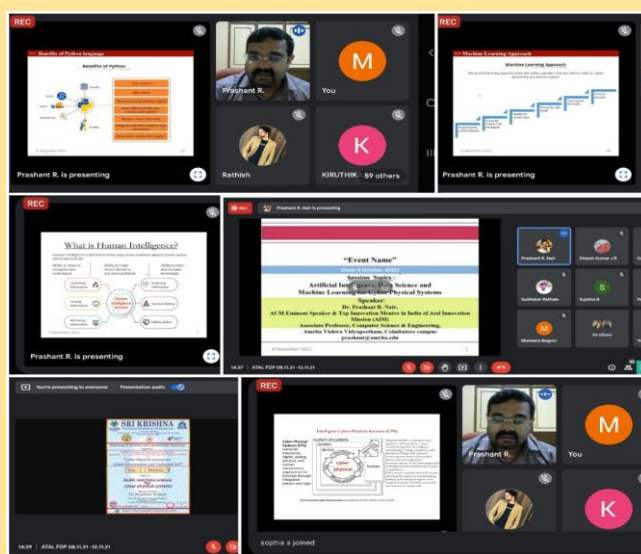
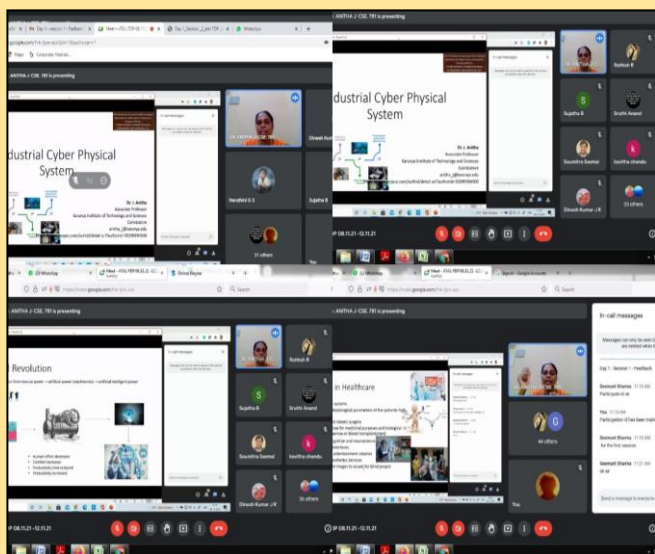
# ECE | ATAL FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT



AICTE Training and Learning (ATAL) Academy Sponsored One Week online Faculty Development Program (FDP) on **“Cyber Physical Systems for Smart Environment and Industrial IoT”** has been organized by the Department of **Electronics and Communication Engineering** from 8.11.21 to 12.11.21. The session was inaugurated by **Dr.S.Sophia**, HoD, **ECE**.



# ECE | ATAL FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT - DAY 1



## Session: I

**Title:** Introduction to Cyber Physical Systems

**Resource Person:**

**Dr. R. R. Ravi,**

Research Centre Head, Department of Computer Science & Engineering/Information Technology, Francis Xavier Engineering College, Tirunelveli.

**Session Highlights:**

Forensic Equipment, Overview of Cyberattack, Fundamental elements of crime, Definition of Cybercrime, Role of a Hacker, Hacking Process, Features of Kali Linux, Categories of Cybercrime, Cyber Analysis, Cyber forensics.

## Session II

**Title:** Industrial Cyber Physical Systems

**Resource Person:**

**Dr. J. Anitha,**

Associate Professor, Department of CSE, Karunya Institute of Technology and Sciences, Coimbatore.

**Session Highlights:**

Industrial Revolution, Industry 4.0, Cyber Physical System (CPS), Application of CPS, Architecture of CPS, CPS Design Challenges, Security in CPS, Attacks on Security of CPS, Challenges of CPS Security, Industrial 5.0.

## Session III

**Title:** AI, ML and Data science for cyber physical systems

**Resource Person:**

**Dr. Prashant R. Nair,** Vice-Chairman-IQAC & Associate Professor, CSE, Amrita Viswavidhyapeetham, Coimbatore.

**Session Highlights:**

Introduction to Artificial Intelligence & Prolog Programming, Purpose of Machine Learning, Taxonomy & Types of Machine learning, Components of Data Science, Python Tools & Technology, Data Analytics Process & its steps.

# ECE | ATAL FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT - DAY 2

Department of Electronics and Communication Engineering Organizes  
Sponsored Five Days Online Faculty Development Programme (FDP) on  
"Cyber Physical Systems for Smart Environment and Industrial IoT"  
Day - 2 | Session - 1  
Topic on  
**Cyber-Physical Systems for Smart Environment**  
Resource Person

CPS in Smart Cities

CPS in Agriculture

Future Farms: smart and vibrant

Compai - RIBA

**Session I**  
**Title:** Cyber-Physical Systems for Smart Environment  
**Resource Person:**  
**Mr.G.Ramsundar,**  
 Assistant Professor (Sr.Gr), Sri Ramakrishna College of Engineering, Coimbatore.  
**Session Highlights:**  
 Introduction to Cyber-Physical Systems (CPS), CPS in Agriculture, Transport, Smart Cities, Attacks in CPS, Taxonomy of CPS attacks, Various CPS Attacks happened recently, Stuxnet, Sewage System Attack, Ukraine Grid Attack, Florida Cyber Attack, CPS in Medicine like pacemakers, Introducing IoT in CPS, Ransom ware- Orange worm.

**Session II**  
**Title:** Industrial Cloud based Cyber physical systems  
**Resource Person:**  
**Dr.V.Balaji,**  
 Founder & Director, Radiance Technology Research Services Private Ltd., Coimbatore.  
**Session Highlights:**  
 Evolution of industry, Role of IoT, Technologies that made IoT/CPS possible, IoT elements, IoT/CPS cloud platforms, AWS IoT, IoT use cases, Industrial IoT use case-predictive maintenance, AWS Industrial IoT Platform

Department of Electronics and Communication Engineering Organizes  
AICTE Training and Learning (ATAL) Academy Sponsored Five Days Online Faculty Development Programme (FDP) on  
"Cyber Physical Systems for Smart Environment and Industrial IoT"  
Day - 2 | Session - 2  
Topic on  
**Industrial Cloud-Based Cyber-Physical Systems**  
Resource Person

Architecture of Industry

Industrial Cloud Platform

What technologies have made IIoT possible?



## ECE | ATAL FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT - DAY 2

**Day - 2 | Session - 3**

*Topic on*  
**IoT Automation through Open Source Tool - Virtual Hands on Session**

Resource Person  
**Mr.R.Rajkumar**

### Session III

**Title:** IoT Automation through open source tool – Virtual Hands on Session

**Resource Person:**

**Mr.R. Rajkumar,**  
Senior Application Engineer,  
VI Solutions, Bengaluru, Karnataka,  
India

**Session Highlights:**

Industrial IoT, Need for Industrial IoT and use-cases, Recent trends in IIoT, Architectures of IoT – G approach, Components and devices.

## ECE | ATAL FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT - DAY 3

**Day - 3 | Session - 1**

*Topic on*  
**Smart Grid for smart Environment**

Resource Person  
**Dr. R. Sakhivel**

### Session I

**Title :** Smart Grid for Smart Environment

**Resource Person: Dr. R. Sakhivel,**  
Associate Professor, Department of  
Micro and Nanoelectronics, SENSE,  
VIT University.

**Session Highlights:**

Global Energy Demand of Electricity  
Smart Grid  
Difference between Traditional and  
Smart Grid  
Attributes and Pillars of Smart Grid

## ECE | ATAL FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT – DAY 3

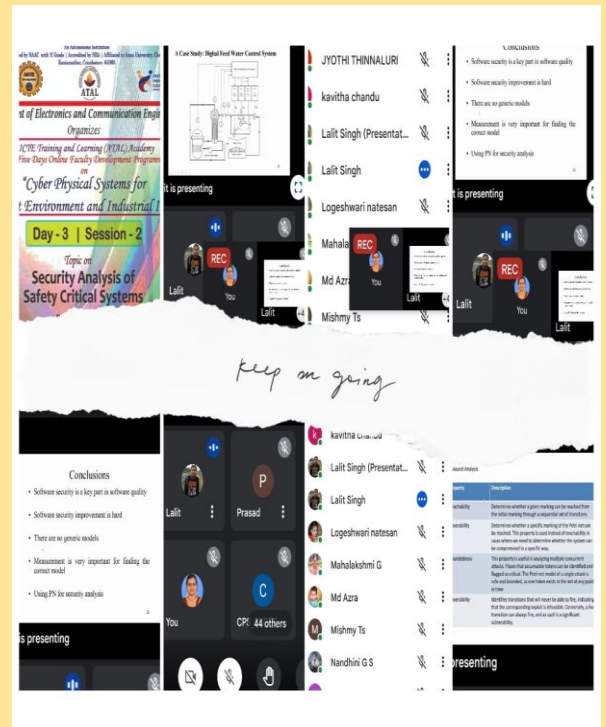
### Session II

**Resource Person: Dr Lalit Singh,**  
Scientist, NPCIL-BARC, Department of Atomic Energy, Govt. of India.

**Title:** Security Analysis of Safety Critical Systems

#### Session Highlights:

- Safety Critical System
- Cyber Attacks
- Security Modelling Process
- Petri Nets History and Applications



## ECE | ATAL FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT – DAY 3

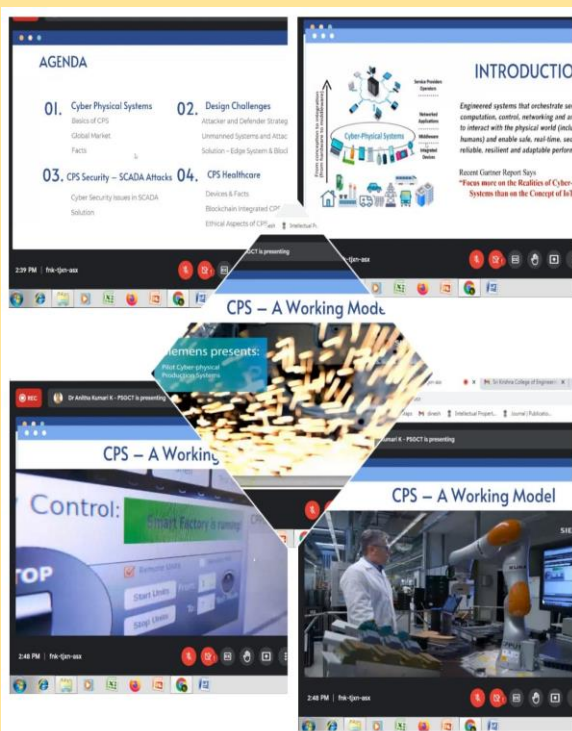
### Session III

**Resource Person: Dr. Anitha Kumari,**  
Associate Professor, Department of Information Technology, PSG College of Technology, Coimbatore.

**Title :** Cyber Physical Systems and Security Challenges

#### Session Highlights:

- Cyber Physical Systems
- Cyber Security Issue in SCADA
- Attacker and Defender Strategy
- Unmanned System and Attack Vector
- Block chain Integrated CPS Healthcare
- Ethical Aspects of CPS

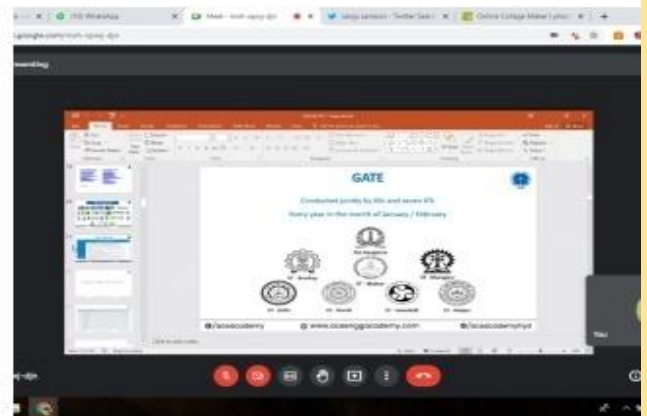
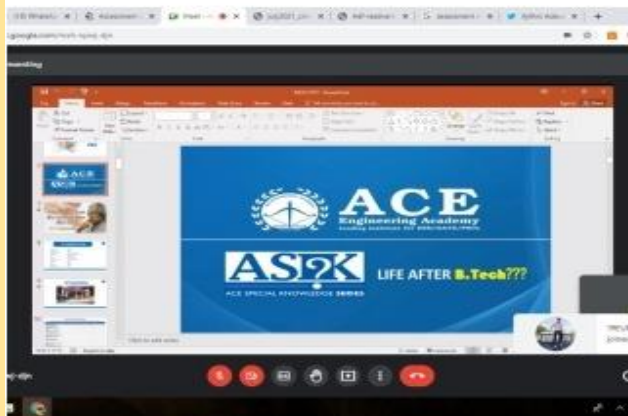
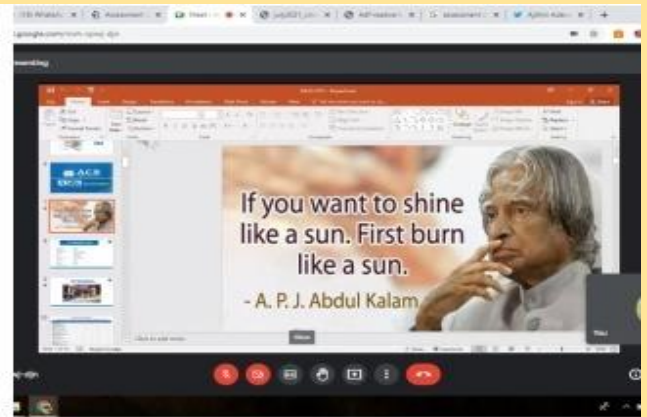




## EVENTS

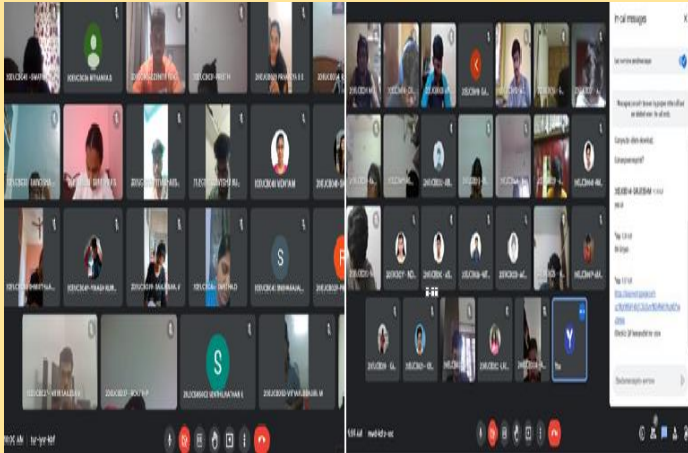


## MECH | WEBINAR ON KICK START & STEER YOUR CAREER IN PSU'S/CORE INDUSTRIES



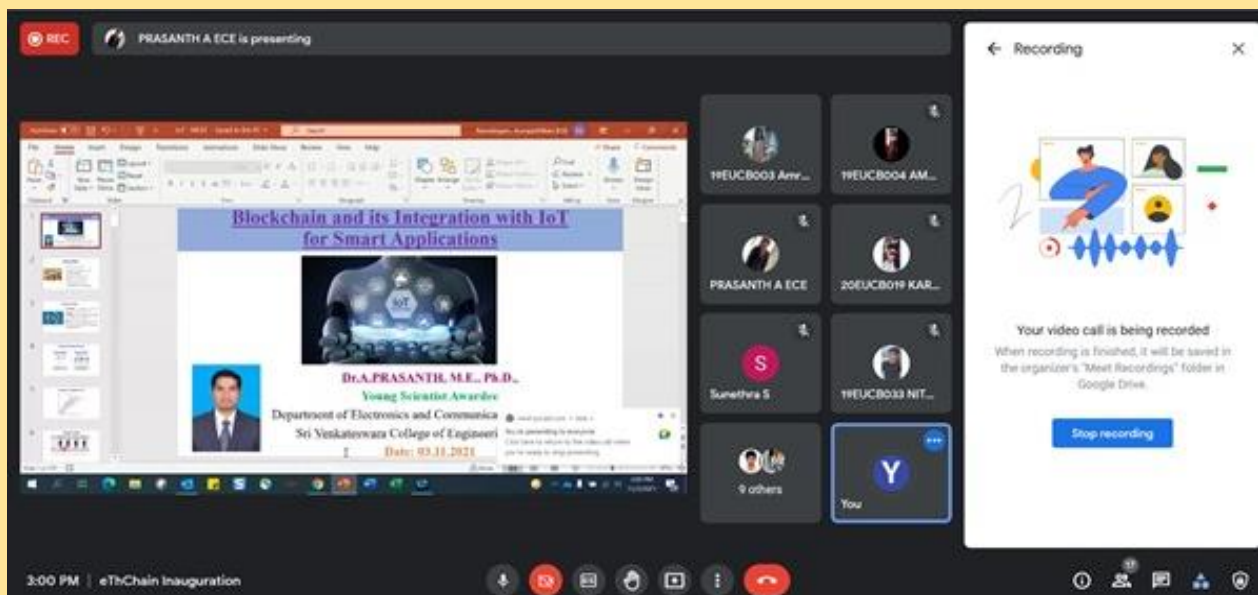
Department of **Mechanical Engineering** organized webinar on '**Kick start & Steer your career in PSU's/Core Industries**'. **Mr. Manimohon Trinath**, Senior Faculty member, ACE Engineering Academy was the Resource Person. **Second** and **Third** year Mechanical Engineering students attended the webinar. The webinar enlightened the students on the opportunities of clearing GATE exams in Public sector companies and higher studies in premier institutions across the country.

## CSBS | TCS ONLINE ASSESSMENT



TCS online assessment was conducted for the **Second** year students of **CSBS** on Mathematics (Linear algebra, Discrete Mathematics) on 10.11.2021

## CSBS | WEBINAR ON BLOCKCHAIN AND ITS INTEGRATION WITH IOT FOR SMART APPLICATIONS



Department of **Computer Science and Business System** organised a webinar for the students and faculty members on **“Blockchain and its Integration with IoT for Smart Applications”** through the Blockchain Community **“eThChain”** on 3.11.2021. **Dr. A. Prasanth**, Assistant Professor, Sri Venkateswara College of Engineering (SVCE), Chennai was the Resource Person of the event.

## EEE | WEBINAR ON REAL TIME DESIGN OF ANTENNA USING ANSYS

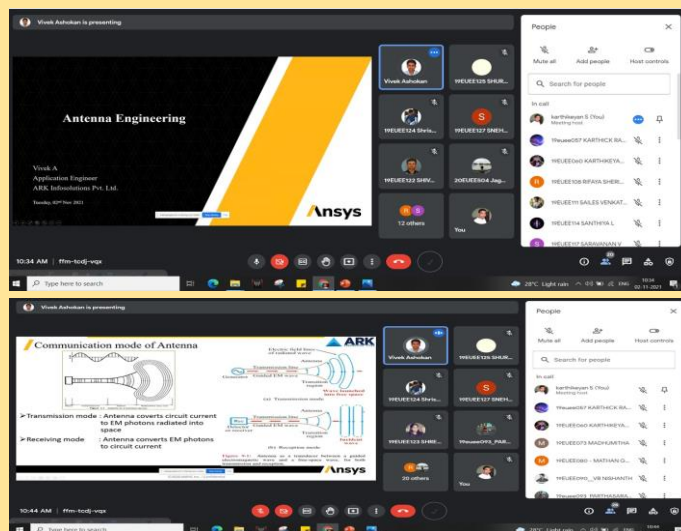
**Sri Krishna College of Engineering and Technology**  
(AN AUTONOMOUS INSTITUTION)  
(Accredited by NAAC with 'A' Grade, Accredited by NBA, Affiliated to Anna University, Chennai)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
in association with **IEEE**

cordially invites you to join the Webinar on  
**Real Time Design of Antenna using ANSYS**

**Resource Person**  
**Dr. Vivek Ashokan**  
Application Engineer  
ARK Infosolutions Pvt. Ltd. (ANSYS Academic)  
Chennai

02.11.2021 10.30-11.30 AM



Department of **EEE** in association with **IEEE** organized a webinar on **“Real Time Design of Antenna using Ansys”** for the **Final** year students on 02.11.2021.

**Resource Person:** Dr. Vivek Ashokan, Application Engineer, ARK Infosolutions Pvt. Ltd. (ANSYS Academic), Chennai.

The objective of this session was to encourage the students to understand the basics of Antenna design used in Communication Engineering and also measure radiation involved in Antenna based communication protocol.

### Session Highlights:

- High-Frequency Structure Simulator for Electrical Application
- ANSYS – Hands on Training
- Prototype of Antenna Design
- Radiation Parameter Calculation in Communication Mode





## RESEARCH AND DEVELOPMENT

## R&D | PATENT PUBLICATION | MCT

(12) PATENT APPLICATION PUBLICATION (21) Application No.202141047301 A  
(19) INDIA  
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(54) Title of the invention : AUTOMATIC HEADLAMP CONTROL SYSTEM

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(51) International classification B60Q000140000, B60F000302000, B40E000304000, B60Q000100000, F21S0041692000  
(56) International Application No. PCT// Filing Date :01/01/1900  
(57) International Publication No. : NA  
(61) Patent of Addition to Application Number : NA Filing Date : NA  
(62) Divisional to Application Number : NA Filing Date : NA

(57) Abstract :  
The high beam that comes from the opposite vehicle creates a temporary glare to drivers. This is because of the high beam that is coming from the approaching vehicle in opposite direction. The light intensity from high beam is 1200 lumens which is comparatively higher than the light intensity from low beam (700 lumens). So, in this circumstance the headlight should be dimmed to avoid this glare. This glare creates a temporary blindness to a person which results in road accidents. To avoid such incidents the automatic headlight dimmer circuit can be used. This circuit consists of Light Dependent Resistor (LDR) sensors and a night vision camera to sense the light from the approaching vehicle that comes in opposite direction. The night vision camera provides a greater accuracy of detection which indeed helps in quick switch over of beam. Then the light signals are processed using an Arduino microcontroller and the output signals are given to the switching relays. Hence it switches automatically from high beam into low beam and reduces the glare effect faced by the drivers coming from the approaching vehicle. It avoids human intervention in dimming of headlight.

No. of Pages : 3 No. of Claims : 5

The Patent Office Journal No. 44/2021 Dated 29/10/2021 50257

**Mr.S.Madhankumar** and **Dr.T.A.Selvan** faculty members of **Mechatronics Engineering** along with **Abhinav Kumar K, Bavan Kalyan R, Arunachalam S** and **Hrithik K** students of **Final year MCT A** have published a patent entitled **"Automatic Headlamp Control System"** in Indian IPR Journal on 29.10.2021 with Application number: 202141047301 A.

## R&D | JOURNAL PUBLICATION | CIVIL

**Dr.P.Saravanakumar**, Associate Professor, Department of **Civil Engineering** has published a research article titled **"Performance Enhancement of Recycled Aggregate Concrete – An Experimental Study"** in Applied Science and Engineering progress. It is indexed in SCI & WoS.

Applied Science and Engineering Progress, Vol. 15, No. 1, 2022, 5212

Research Article

Performance Enhancement of Recycled Aggregate Concrete – An Experimental Study

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Department of Civil Engineering, Kalasalingam Academy of Research and Education, Tamilnadu, India

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Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Tamilnadu, India

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Received: 7 April 2021; Revised: 4 May 2021; Accepted: 20 May 2021; Published online: 7 July 2021  
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Abstract  
Extensive studies have been performed on the mechanical and durability properties of the concrete prepared with recycled coarse aggregates (RCA), however, only the modest consideration has been given to the studies on the behavior of RAC prepared by different mixing approach techniques. This study presented the mechanical properties of the recycled aggregate concrete (RAC) with different percentages of RCA prepared by normal mixing approach (NMA), two-stage mixing approach (TSMa) and sand enveloped mixing approach (SEMA) techniques. The manufactured concrete mixtures were tested for compression, tension, flexure and elastic modulus at 7, 28 and 90 days. The results indicated that the mechanical properties of the RAC (with 100% of RCA) prepared through TSMa and SEMA were improved by 9.36 and 12.14% at 28 days. Prolonged, prolonged curing to TSMa and SEMA mixtures improved the mechanical properties of the RAC that was nearly equal to normal aggregate concrete (NAC) prepared by NMA.

Keywords: Recycled aggregates, Normal mixing approach, Two-stage mixing approach, Sand enveloped mixing approach, Mechanical properties

## R&D | PATENT PUBLICATION | EEE

Patent titled “**Bi- Level Energy Management System with Grid Reinforcement for Solar Energy**” has been published by **Mr.R.Kavin**, Assistant Professor, **EEE** in the Australian Patent Journal and certified for Grant identified by Publication no: 2021105856.



## R&D | ARTICLE PUBLICATION | MECH

J. Inst. Eng. India Ser. D  
<https://doi.org/10.1007/s40033-021-00303-z>

ORIGINAL CONTRIBUTION

**Assessment of Mechanical and Tribological Characteristics of A356 Reinforced with x wt% CaB<sub>6</sub> Composites**

K. Kaviyarasan<sup>1</sup> · R. Soundararajan<sup>2</sup> · Asrith Raj<sup>1</sup> · S. Aswirth Kannan<sup>1</sup> · P. Ayyankalai<sup>1</sup>

Received: 4 May 2021 / Accepted: 9 October 2021  
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**Dr. R. Soundararajan**, Associate Professor, **Mechanical Engineering** has published a scientific article titled '**Assessment of mechanical and tribological characteristics of A356 reinforced with x wt% CaB<sub>6</sub> composites**' in the Journal- The Institution of Engineers (India): Series D - A Springer Publication. It is a scopus indexed journal with Impact Factor 1.423



**SKCET**



**Buzz**



**TRAINING AND PLACEMENT**

## PLACEMENT | TESTIMONIAL BY PLACED STUDENTS



A better human being, a better developer and a dream to achieve something big are all, I hoped for when I joined Sri Krishna College of Engineering. I am delighted to say that the faculty members have helped me to achieve these dreams. Here, I am not only had the chance to develop on my technical skills but also on other aspects such as Leadership and Management skills. The faculty members always inspired me to go above and beyond my capabilities. I would like to specially thank the placement cell for guiding me and providing me a good platform for my career. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team.

**AKKASH T, MECH (2021 BATCH),  
Sanmina Corp.,**

As a student, I can say that SKCET is the best college to be at! The faculty members are very passionate and show their genuine desire to help students to achieve their goals. The college has great modern facilities which promotes great learning environment and flexible schedules that suit to meet the needs of a student like me. My college is different from all other engineering colleges because it not only focuses on the academics but also focuses on the overall development of a student. Our college takes the educational mission to heart, here you will find people that will support you and guide you on the path to your degree. SKCET has provided us a very enhanced and efficient platform for the exposure by training and placement department. I am very grateful to the placement team for providing us the best of placement opportunities. Thanks to my parents, SKCET Management, Principal and the entire SKCET family for the wonderful opportunity.

**Harini P, IT(2021 BATCH),  
Wipro**



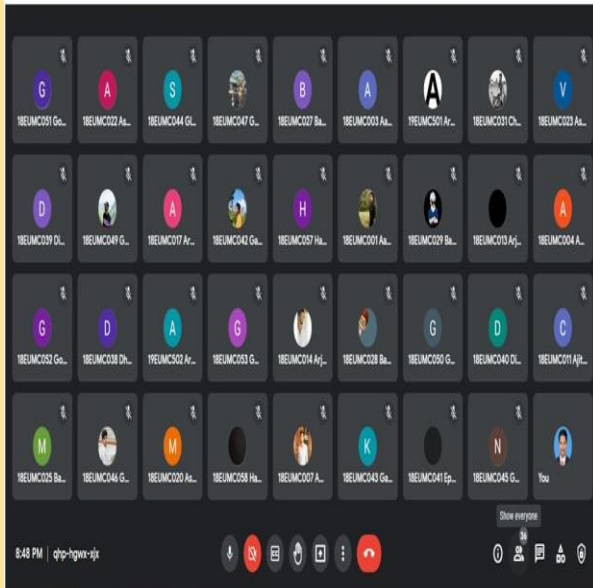
# SKCET Buzz



## TUTOR WARD MEETING



## MECH | TUTOR WARD MEETING | IV- YEAR



**Tutor Ward Meeting** for the **Final** year students of **Mechanical Engineering** was **organized** on 09.11.2021. Commencement of offline classes, offline CIA - 3 examination, Placement and final year projects were the pointers of discussion.

## AI&DS | TUTOR WARD MEETING - II YEAR

**Department of Artificial Intelligence  
and Data Science**

**Tutor Ward Meeting**

**10-11-2021**

**Timing: 3.30 p.m. to 4.30 p.m.**

**Dr. S. Venkata Lakshmi**, HoD, **Dr. A. Sajeev Ram** and **Ms. R. Mirdula**, faculty members of **Artificial Intelligence and Data Science** conducted **Tutor Ward Meeting** for the students of **Second** year **AI & DS 'A'**. The pointers of discussion were: End Semester Examination, Participation in Hackathon and Technical Events, Preparation for CIA 3.



## FACULTY CERTIFICATIONS

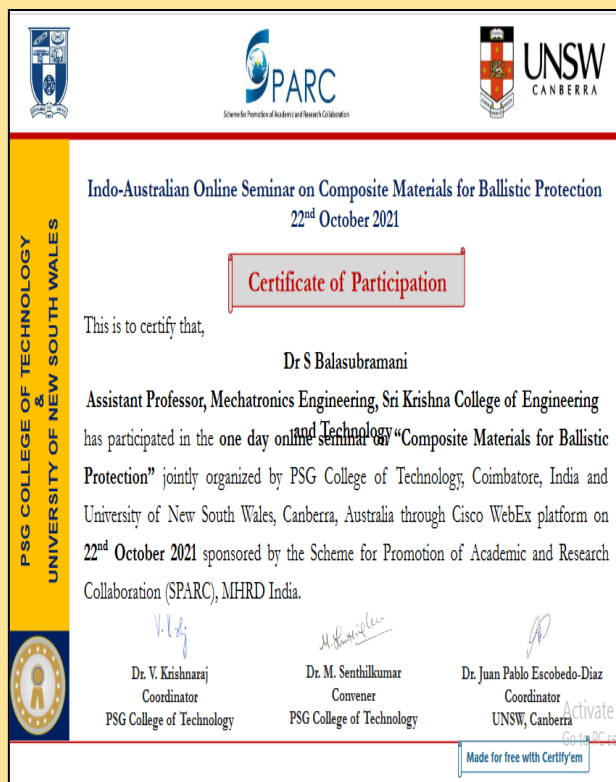
## MCT | ATAL FDP ON ARTIFICIAL INTELLIGENCE FOUNDATIONS FOR POWER SYSTEMS



**Ms.S.Nithya Priya**, Assistant Professor, Department of **Mechatronics Engineering** has successfully completed ATAL Academy online Faculty Development Programme on **Artificial Intelligence Foundations for Power Systems** from 25.10.2021 to 29.10.2021 organized by K.L.N. College of Engineering.

## MCT | INDO-AUSTRALIAN ONLINE SEMINAR ON COMPOSITE MATERIALS FOR BALLISTIC PROTECTION

**Dr.S.Balasubramani**, Assistant Professor, Department of **Mechatronics Engineering** has participated in the one day online seminar on “**Composite Materials for Ballistic Protection**” jointly organized by PSG College of Technology, Coimbatore, India and University of New South Wales, Canberra, Australia on 22.10.2021 sponsored by the Scheme for Promotion of Academic and Research Collaboration (SPARC), MHRD India.





## MCT | NPTEL CERTIFICATION



**Dr.D. Pritima**, Professor, **MCT** has successfully completed 8 Weeks NPTEL Course on **“Advanced Machining Processes”** and secured Elite certificate during the course from February to April 2021.

## SOM | FDP ON CAPACITY BUILDING AND QUALITY ASSURANCE

**Dr.Sridevi.K.B**, Professor from **School of Management** has participated in the Six Days Faculty Development Programme on **‘Capacity Building and Quality Assurance’**, organized by Kongunadu College of Education from 25.10.2021 to 30.10.2021.



## SOM | MENTOR TRAINING PROGRAMME

**Mr.R.Muthukrishnan**, Assistant Professor, **School of Management** has participated in the Five Days Mentor Training Programme conducted by National Institute of Technical Teachers Training and Research, Chennai from 05.07.2021 to 09.07.2021.



## SOM | WORKSHOP ON RESEARCH METHODOLOGY AND DATA ANALYSIS



**Mr.R.Muthukrishnan**, Assistant Professor, **School of Management** has participated in the Seven Days National Level Workshop on **“Research Methodology and Data Analysis”** organized by Sri Krishna Adithya College of Arts & Science, Coimbatore from 25.10.2021 to 01.11.2021

**SKCET**



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**FACULTY PROGRESSION**

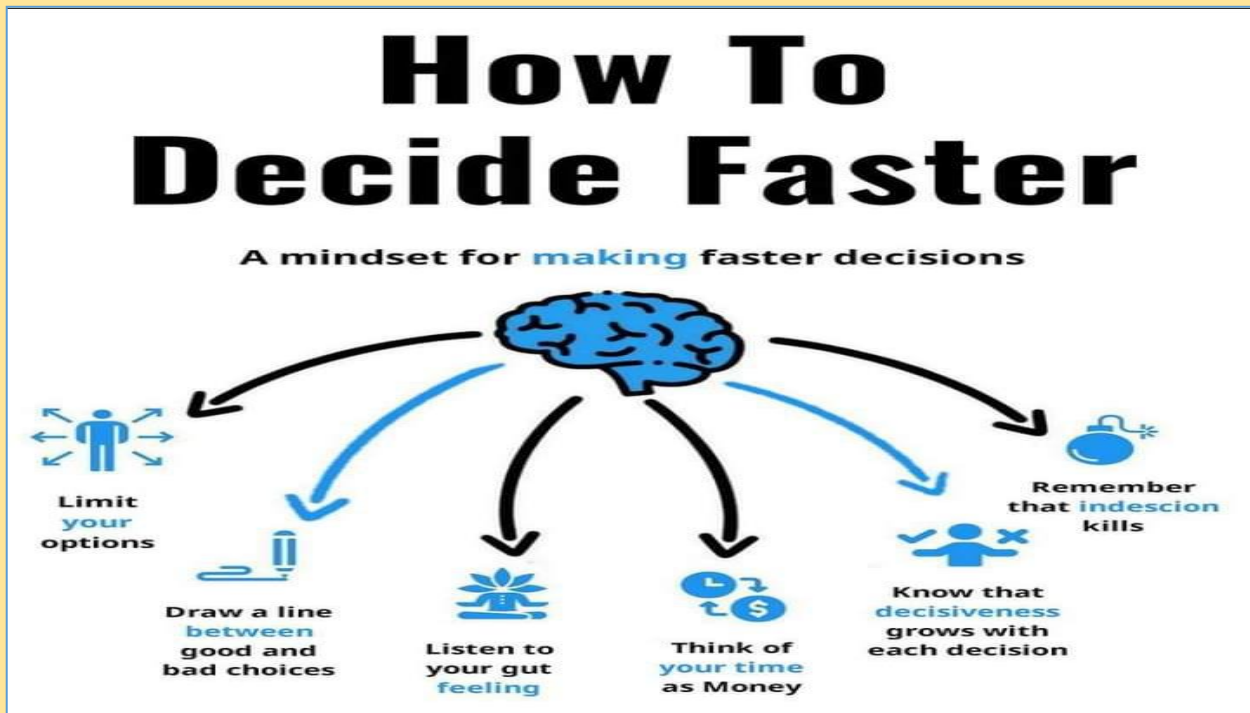


# CSBS | IOT DEVELOPMENT: CHALLENGES AND OPPORTUNITIES - GUEST SPEAKER



**Dr.S.Balakrishnan**, Professor and Head, Department of **Computer Science and Business System** has been invited to deliver a speech on **IoT Development: Challenges and Opportunities** in the 3rd International Conference on Machine Learning and Intelligent Systems (MLIS 2021), held on 11.03.2021 Xiamen, China.

## INFOGRAPHICS



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**CONFERENCE PRESENTATION**

## AI&DS | PAPER PRESENTATION



**Dr. A. Sajeev Ram**, Associate Professor, **Department of Artificial Intelligence and Data Science**, has presented a paper entitled **"A Deep Convolutional Neural Network based Detection System for Autism Spectrum Disorder in Facial Images"** at the 5<sup>th</sup> International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2021) organized by SCAD Institute of Technology, Palladam, India held from 11<sup>th</sup> to 13<sup>th</sup> November 2021.

## WRITE IT RIGHT

### LAWYER

Lawyers are legal professionals who are trained in the law. Such professionals might offer legal guidance to another, or might not.

### Examples

- Her lawyer made a statement outside the court.
- We employed a lawyer to straighten our legal tangle.
- Have you consulted your lawyer about this?
- I advise you to withdraw your allegation before I contact my lawyer.
- He was the only lawyer who would touch the case.

### ATTORNEY

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.

### Examples

- She was made her father's attorney when he became ill.
- As an attorney, he represented the poor free of charge.
- Attorney Robert Rivas answers yes to both questions.
- The car seller agreed to escrow the sum of \$2000 with her attorney.
- In November, the millwrights' local voted to hire me as their attorney.





**CREATIVE CORNER**

## EEE | CAMCURVE



VINOLIN DEENA L

19EUEE154

III Year EEE C