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3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the year given below.

SUMMARY SHEET

Academic year	2020-21
No. Seminars/ conferences/workshops	10


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<https://siiet.ac.in>

Name of Department	Mechanical Engineering.
Name of Event Organized	Enlight3d
Title of the Event	A webinar on FDM and 3D Printing
Date of Event Organized	14-07-2021
No. of Participants	67
Mode of Conduction	Online
Name Chief Guest/Speakers	Mr. Thrilokanath Reddy Dontham, Co-Founder

Speaker/Organizations Profile

“Enlight3d” known for 3D Printing Training in Hyderabad is one of the leading businesses in the Project Consultants for Diploma/B.Tech/M.Tech Students and Ph.d Thesis Writing Services, Computer Training Institutes for Ansys/Catia Project Work, Project Work for Students, Computer Training Institutes for Ansys/Catia and much more.

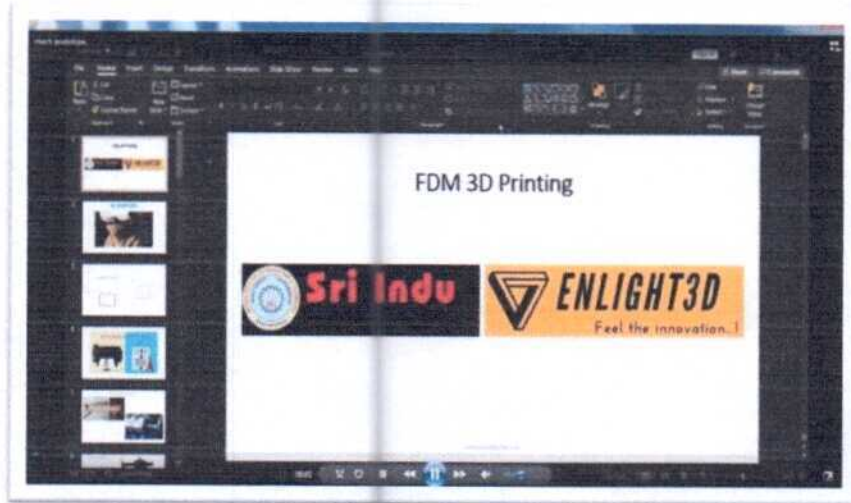
Description/Conclusion:

The Department of Mechanical Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad in association with “Enlight3d” has organized a One Day webinar on “A webinar on FDM 3D Printing” on 14th July, 2021.

To create awareness, promotion and enhance about 3D printing and to provide a fundamental understanding of the state-of-the-art additive and digital manufacturing technologies to a broad spectrum of researchers, industry practitioners, executives, teachers, and students.

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Presentation Slides of webinar



Screenshots of Participants during webinar


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EVENT REPORT

Name of Department	Electronics and Communication Engineering
Name of Event Organized	AICTE SPICES.
Title of the Event	Data science and applications using and machine learning
Date of Event Organized	02-07-2021
No. of Participants	169
Venue/Mode of Conduction	Online(Link: https://www.facebook.com/sri.indu.58118/videos/2998505273801604
Name Chief Guest/Speakers	Dr.D.Raju,Professor, Dept.OF CSE ,VBIT Hyderabad..

Speaker/Organizations Profile:

Dr. **Dara Raju**. engineering colleges in telangana. Associate **Professor**. 49150404-142008.

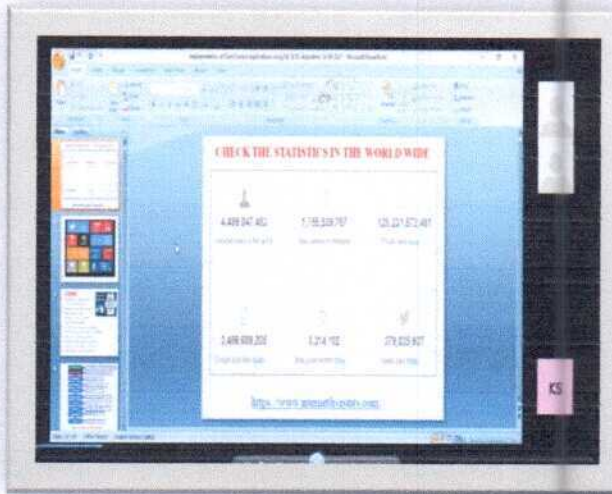
Qualification: Ph.D. (JNTUK) 2017, M.Tech (VTU) 2007, B.Tech (JNTU)

Description/Conclusion:

The purpose of machine learning is to discover patterns in your data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems. Machine learning in business and other fields is effectively a method of data analysis that works by automating the process of building data models. Machine learning in business and other areas such as healthcare and governmental departments is not simply another term for AI (Artificial Intelligence). While AI is the umbrella term given for machines emulating human abilities, machine learning is a specific branch of AI where machines are trained to learn how to process and make use of data; another description often used is 'machine intelligence'.

The objective of machine learning in business is not only for effective data collection, but to make use of the ever increasing amounts being gathered by manipulating and analyzing it without heavy human input.


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Presentation Slides of webinar



Screenshots of Participants during webinar


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Name of Department	Computer Science & Engineering.
Title of the Event	“ Building gap between academics and industry by understanding hybrid cloud in real world ”
Date of Event Organized	29-06-2021
No. of Participants	250
Mode of Conduction	Online
Name Chief Guest/Speakers	Mr.Murali Krishna Cheekati

Speaker/Organizations Profile

Mr.Murali Krishna Cheekati, working as on consulting Analyst at Steria India Ltd.

Graduated from B.tech,Computer Science & Engineering, received, M.Tech Degree from IIT Madras. He has Over 20 years of Professional experience in Systems, Networking and Software development and Hybrid Cloud Technologies,Hands-on CI/CD experience in DevOps processes, Microservices and Site Reliability Engineering (SRE), Certifications - RHCSA (RedHat Certified System Administrator), RHCE (Red Hat Certified Engineer), CKA (Certification in Kubernetes Administration) and several Cloud Computing hands-on expertise with Public Clouds (AWS) and Private Clouds.

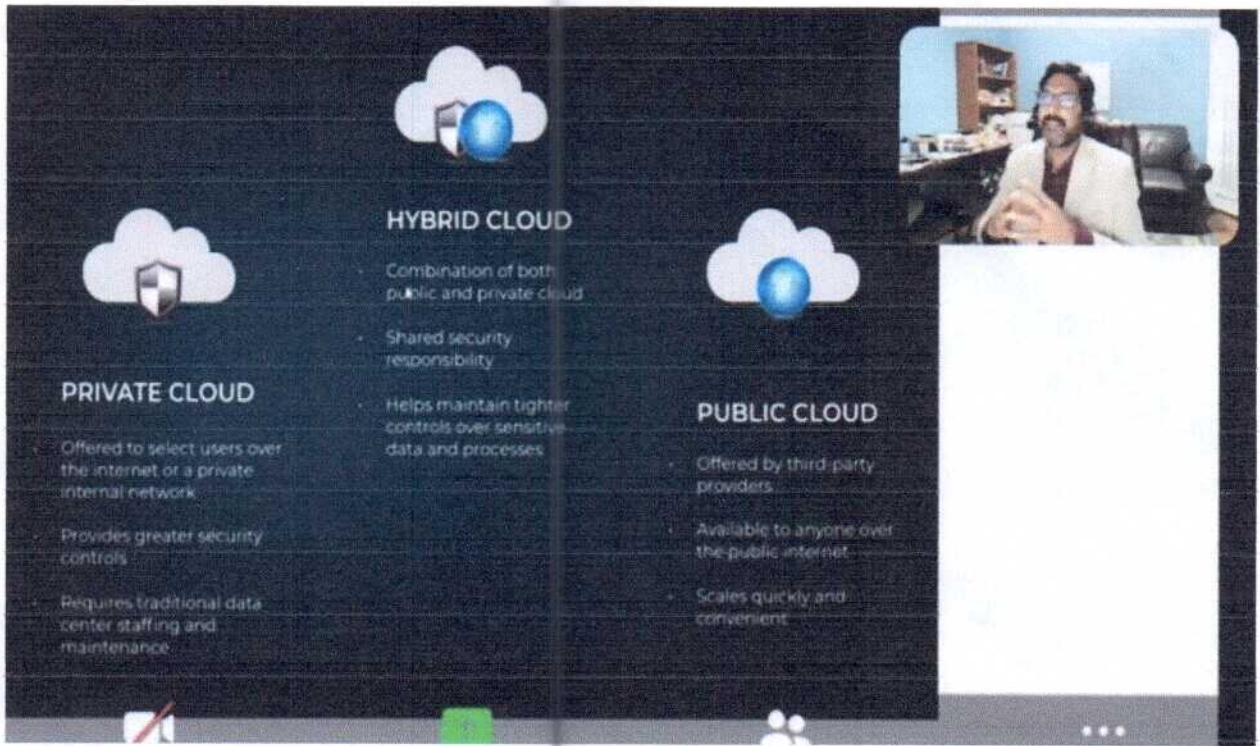
Description/Conclusion:

The Department of Computer Science & Engineering,Sri Indu Institute of Engineering and Technology, Hyderabad has organized a One Day webinar on “Building gap between academics and industry by understanding hybrid cloud in real world” on 29th June, 2021.

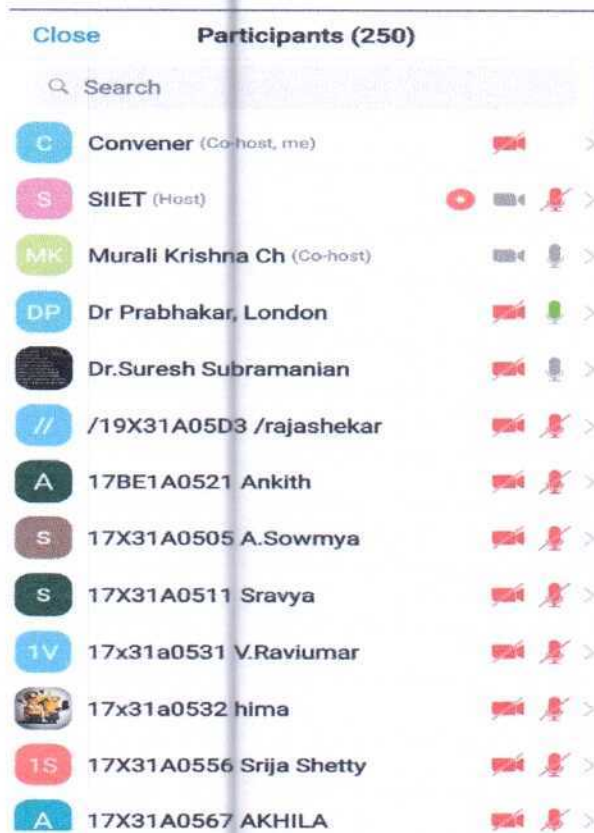
Hybrid cloud computing enables an enterprise to deploy its most sensitive workloads in an on-premises cloud and to host less-critical resources on a third-party public cloud provider. This approach allows organizations to get the best of both private and public cloud models.

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Presentation Slides of webinar



Screenshot of Participants during webinar


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Name of Department	Computer Science & Engineering
Title of the Event	“ Conceptual modalities in Blockchain technology ”
Date of Event Organized	11-06-2021
No. of Participants	145
Mode of Conduction	Online
Name Chief Guest/Speakers	Dr. D,Ramesh

Speaker/Organizations Profile


Dr. D.Ramesh, Assistant Professor in the Department of Computer Science & Engineering, at Indian Institute of technology(ISM),Dhanbad.

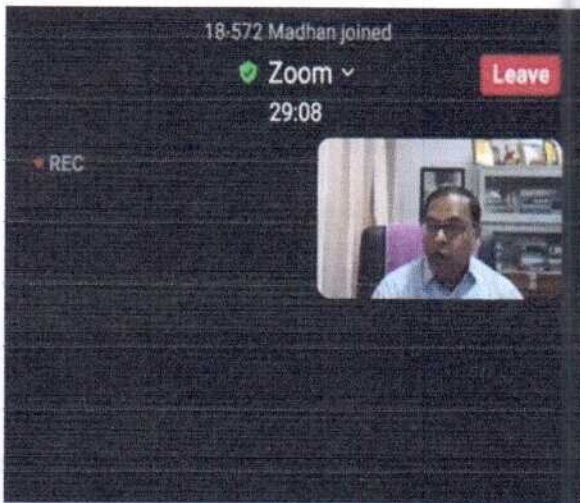
Graduated from College of Engineering, Kakatiya University, Warangal, India, in 2004 and received M.Tech Degree from the Jawaharlal Nehru Technological University, Hyderabad, India, in 2009 and Ph.D from Indian Institute of Technology (ISM) Dhanbad, India in 2015. he has 10 years of experience in teaching as assistant professor at the Department of Computer Science and Engineering, Indian Institute of Technology (ISM), Dhanbad, India. he currently working and publishing widely in the areas of Distributed databases, Cloud Computing, and Big Data. he organized workshops, including tutorials, and actively served in the programming committees of international conferences. He is a member of the ACM and IEEE.

Description/Conclusion:

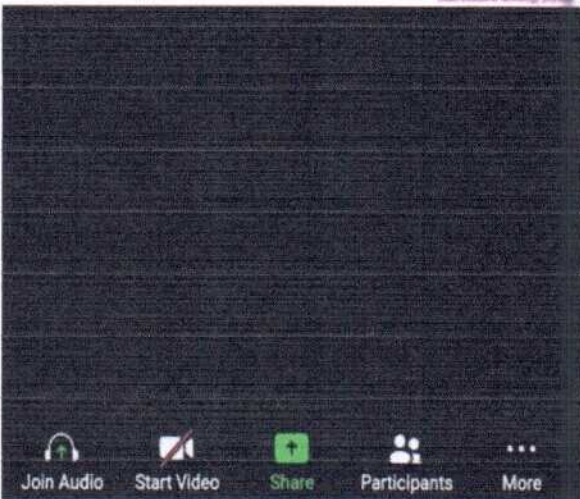
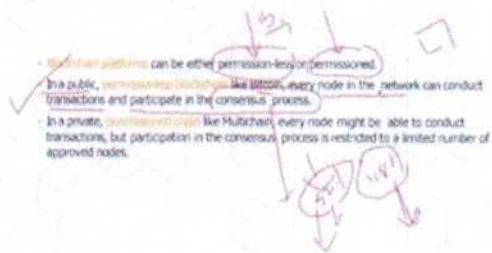
The Department of Computer Science & Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad has organized a One Day webinar on “Conceptual modalities in Blockchain technology” on 11th June, 2021.

Conceptual modalities in Blockchain technology provides verification efficiencies, including operational, regulatory, enhanced visibility, and traceability. This technology is also a powerful database that could easily be combined with big data. Blockchain solutions can help cut costs and make many services more competitive.


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BC Platforms



Screenshot of webinar

- C Convener (Co-host, me)
- S SIET (Host)
- MK Murali Krishna Ch (Co-host)
- DP Dr Prabhakar, London
- Dr.Suresh Subramanian
- // /19X31A05D3 /rajashekar
- A 17BE1A0521 Ankith
- S 17X31A0505 A.Sowmya
- S 17X31A0511 Sravya
- 1V 17x31a0531 V.Raviumar
- 17x31a0532 hima
- 1S 17X31A0556 Srija Shetty
- A 17X31A0567 AKHILA

Screenshot of Participants during Webinar

[Handwritten Signature]

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EVENT REPORT

Name of Department	Electronics and Communication Engineering
Name of Event Organized	AICTE SPICES.
Title of the Event	Meeting the new challenges in advanced digital signal processing and application”
Date of Event Organized	10-06-2021
No. of Participants	297
Venue/Mode of Conduction	Online
Name Chief Guest/Speakers	Dr.B.T.Krishna,HOD&Professor in Dept of ECE, JNTUK,Kakinada.

Speaker/Organizations Profile:


Dr.B.T.Krishna completed his B.E(ECE), M.E(ECE) and Ph.D(ECE) from Andhra University, Visakhapatnam, Andhra Pradesh India. He worked in GIT, GITAM University for a period of 12 years at various levels as Assistant Professor, Sr. Assistant Professor and Associate Professor. He is currently working as Professor in Department of ECE, University College of Engineering Kakinada, Jawaharlal Nehru Technological University, Kakinada. His Research Areas of Interest are Fractional Order Systems, Fractional Order Signal Processing, and Analog VLSI.

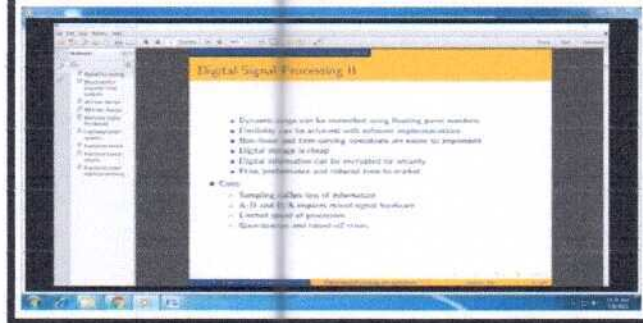
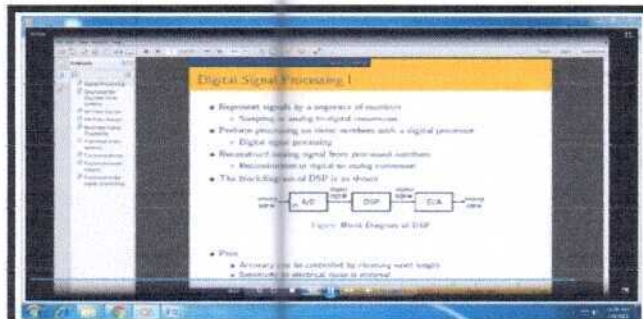
Description/Conclusion:

The Department of Electronics and Communication Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad in association with AICTE SPICES has organized a One Day webinar on “Meeting the new challenges in advanced digital signal processing and application” on June 10th, 2021.

To study the design techniques for FIR and IIR digital filters .To study the finite word length effects in signal processing • To study the properties of random signal,Multirate digital signal processing and about QMF filters.Digital Signal Processing (DSP) is the use of digital processing systems by computers in order to perform a variety of signal processing operations. It is the mathematical manipulation of a digital signal's numerical values in order to increase quality as well as effects of signals. DSP can include linear or nonlinear operators in order to process and analyze the input signals. The nonlinear DSP processing is closely related to nonlinear system detection and can be implemented in time, frequency and space-time domains. Applications of the DSP can be presented as control systems, digital image processing, biomedical engineering, speech recognition systems, industrial engineering, health care systems, radar signal processing and telecommunication systems. In this study, advanced methods and different applications of DSP are reviewed in order to move forward the interesting research filed.

Benefits: To learn the advanced topics and they gained knowledge


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EVENT REPORT

Name of Department	Electronics and Communication Engineering
Name of Event Organized	AICTE SPICES.
Title of the Event	“The future of education employment on optimization techniques on 5G Technology”
Date of Event Organized	07-06-2021
No. of Participants	350
Venue/Mode of Conduction	Online
Name Chief Guest/Speakers	Dr.A.Prakash Rao, Associate Professor, Dept.OF ECE ,NIT Warangal.

Speaker/Organizations Profile:

Dr. A. PRAKASA RAO ..M.tech .Ph.D the Associate Professor in the Department of Electronics & communication Engineering in National Institute of Technology, Warangal. He has conducted many Faculty development Programmes.He has member ship in Indian society of Technical Education..

Description/Conclusion:

The Department of Electronics and Communication Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad in association with AICTE SPICES has organized a One Day webinar on “**The future of education employment on optimization techniques in 5G Technology**” on June 7th, 2021. The Aim of the Programme is To study the design techniques for FIR and IIR digital filters .To study the finite word length effects in signal processing . To study the properties of random signal, Multirate digital signal processing and about QMF filters. Our 2021 edition of the 5G research report looks at where 5G is heading and how quickly it will get there, helping you identify the trends and obstacles that will drive decision-making industry wide.We'll show you where investments are being made, how to prepare for the next wave of 5G opportunities and how new modes of testing and automation can give you a critical advantage. Benefits: To learn the advanced topics and they gained knowledge..


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MOTIVATION CONT.,
SA-BEAMFORMERS VS OMNI DIRECTIONAL ANTENNAS

- 1) **High Gain**
Increase coverage and reduce number of antennas
- 2) **Side lobe canceling or null steering**
Interference reduction, Improve SNR and system capacity
- 3) **Directionally sending information**
Save energy
- 4) **N-fold diversity Gain**
Increased frequency reuse, Increase system capacity(SDMA)
- 5) **Multipath mitigation**
not only benefits mobile communications but also radar applications, Delay spread control, Improve signal quality,
- 6) **MIMO compatibility in both communications and radar**
- 7) **Improved angle-of-arrival estimation and direction finding**
enhance geo-location services.

12:17 PM
7/6/2021


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Name of Department	Civil Engineering.
Title of the Event	“Aerial Photogrammetry Surveying”
Date of Event Organized	07-06-2021
No. of Participants	68
Mode of Conduction	Online
Name Chief Guest/Speakers	Mr. D.Rajendra Babu

Speaker/Organizations Profile

Mr. D. Rajendra Babu, Prof. & HOD in the Department of Civil Engineering. in Sri Indu College of Engineering & Technology, He has conducted many Faculty development Programmes/seminars/webinars/conferences. He has several memberships in various boards and societies.

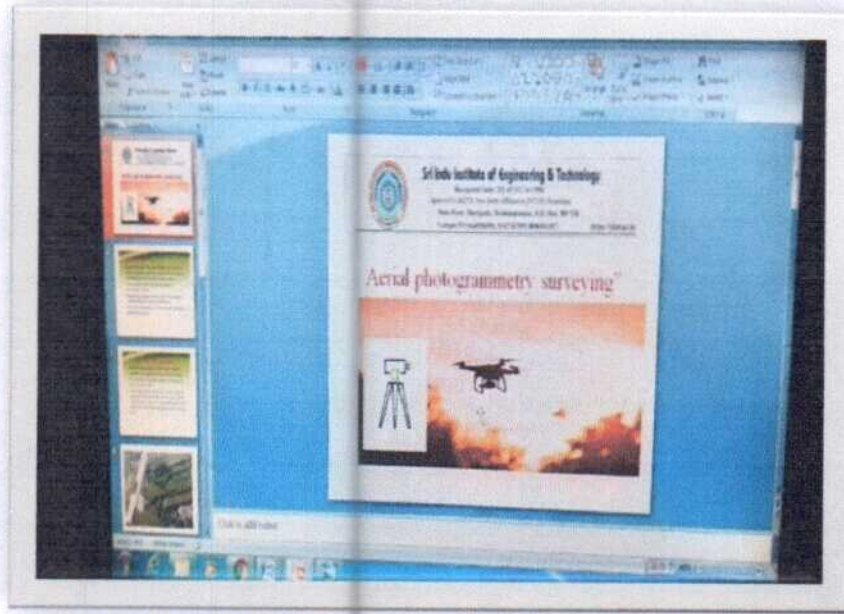
Description/Conclusion:

The Department of Civil Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad is organizing “Aerial photogrammetry surveying” has organized a One Day webinar on “Aerial photogrammetry surveying” on 7th June, 2021.

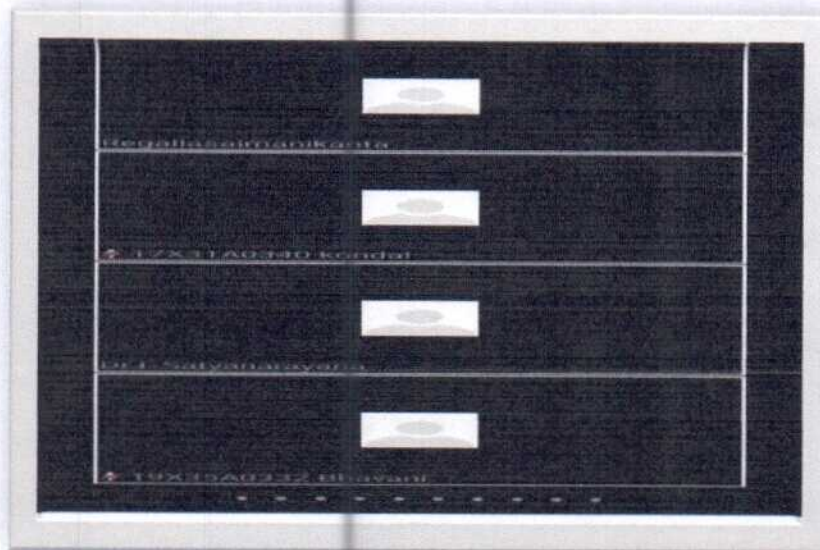
To create awareness, promotion and enhance about Aerial photogrammetry surveying and to provide a fundamental understanding of the state-of-the-art on the mentioned topic to a broad spectrum of researchers, teachers, and students.

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Presentation Slides of webinar



Screenshot of Participants during workshop


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Name of Department	Computer Science & Engineering.
Title of the Event	“ Cyber security and its applications ”
Date of Event Organized	26-03-2021
No. of Participants	148
Mode of Conduction	Online
Name Chief Guest/Speakers	Mr. M.Santhosh,


Speaker/Organizations Profile

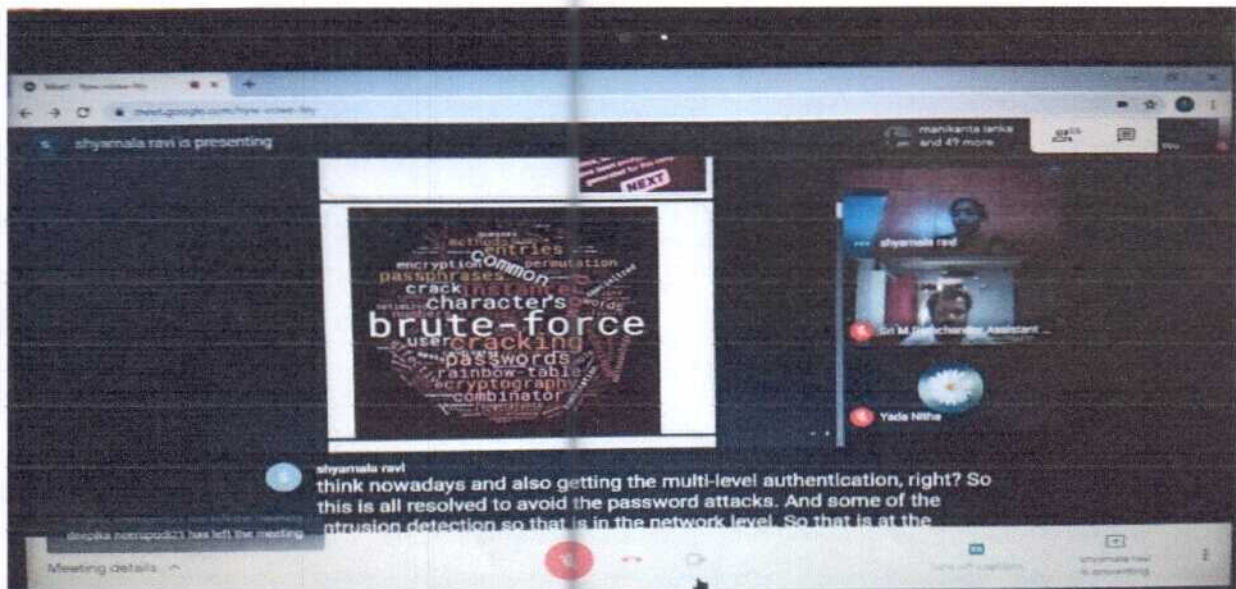
Mr. M.Santhosh working as a Senior Associate consultant at Hayathnagar, Pocharam, Hyderabad.he has 10 years of experience.

Description/Conclusion:

The Department of Computer Science & Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad has organized a One Day webinar on “Cyber security and its applications” on 26th June, 2021.

Cyber security is the application of technologies, processes and controls to protect systems, networks, programs, devices and data from cyber attacks. It aims to reduce the risk of cyber attacks and protect against the unauthorised exploitation of systems, networks and technologies.


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Presentation Slides of webinar

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Name of Department	Civil Engineering.
Title of the Event	“Photogrammetry For Mapping”
Date of Event Organized	03-03-2021
No. of Participants	65
Mode of Conduction	Online
Name Chief Guest/Speakers	Dr. Kasi Rekha

Speaker/Organizations Profile

Dr. Kasi Rekha, Prof. & HOD in the Department of Civil Engineering, at AVN Institute of Engineering and Technology.

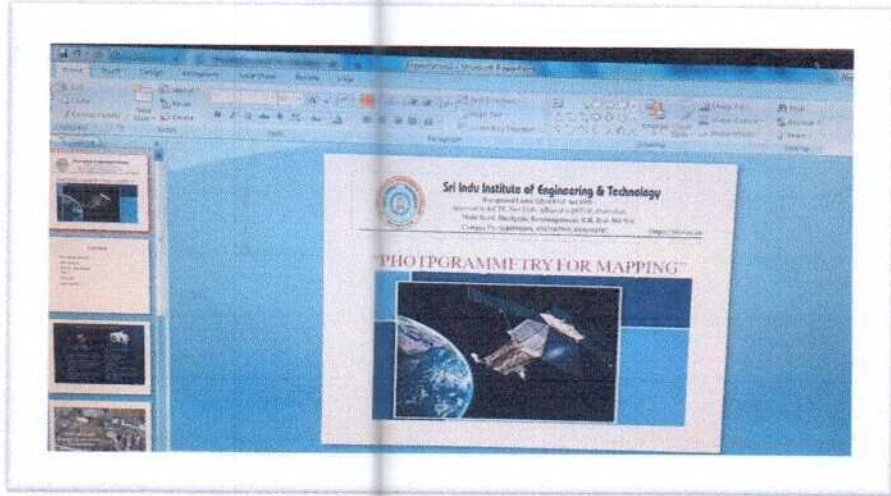
Graduated from College of Engineering, JNTU (Kakinada), received M.Tech Degree from Pondicherry Engineering College, Puducherry, and Ph.D from GITAM University, Visakhapatnam She has 15 years of experience in teaching out of which two years at international level. She has served at CBIT, Hyderabad, GITAM University, Visakhapatnam, Addis Ababa Science and Technical University,

Description/Conclusion:

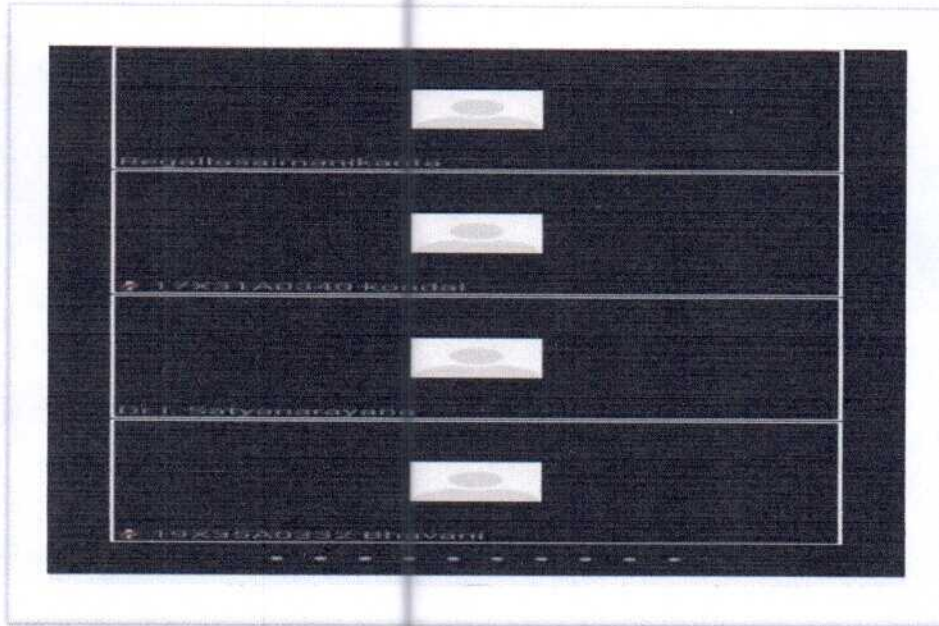
The Department of Civil Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad, has organized a One Day webinar on “Photogrammetry for Mapping” on 3rd March, 2021.

To create awareness, promotion and enhance about Photogrammetry for Mapping and to provide a fundamental understanding of the state-of-the-art on the mentioned topic to a broad spectrum of researchers, teachers, and students.


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Presentation Slides of webinar



Screenshot of Participants during workshop


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EVENT REPORT

Name of Department	Electronics and Communication Engineering
Name of Event Organized	AICTE SPICES.
Title of the Event	“Electromagnetic Fields and waves”
Date of Event Organized	2 nd and 3 rd March 2021
No. of Participants	223
Venue/Mode of Conduction	Online
Name Chief Guest/Speakers	Dr.P.Prasanna Murali Krishna, Professor& HOD Dept.of ECE, KITS Markapur

Speaker/Organizations Profile:

Dr.P.Prasanna Murali Krishna,
Professor& HOD

Dept.of ECE,KITS Markapur


Description/Conclusion:

The Department of Electronics and Communication Engineering, Sri Indu Institute of Engineering and Technology, Hyderabad in association with AICTE SPICES has organized a Two Days webinar on “Electro Magnetic Fields and waves” on 2nd and 3rd March 2021.

To introduce the basic mathematical concepts related to electromagnetic vector fields. To impart knowledge on the concepts of electrostatics, electric potential, energy density and their applications. To impart knowledge on the concepts of magnetostatics, magnetic flux density, scalar and vector potential and its applications. To impart knowledge on the concepts of Faraday's law, induced emf and Maxwell's equations. To impart knowledge on the concepts of Concepts of electromagnetic waves and Transmission lines.

The purpose of this opinion is to update the SCENIHR opinion of 21 March 2007 in the light of newly available information, and to provide a methodological framework and corresponding guidelines to evaluate available scientific evidence in order to ensure the best possible quality for [risk assessment](#).

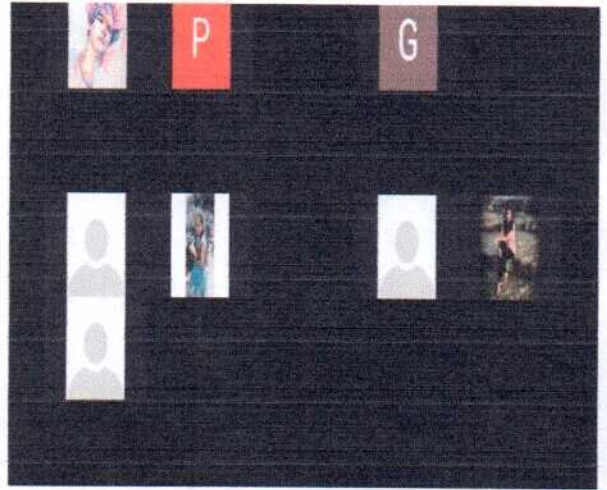
In order to update the opinion, this section establishes the scientific rationale which is needed to provide the requested opinion. Relevant scientific knowledge from the physical, engineering, medical and biological sciences is critically evaluated and summarised. When appropriate, gaps in knowledge are highlighted and suggestions for future important areas of research are included. This opinion also addresses the issue of children's sensitivity, and in particular dosimetry aspects of radiofrequency exposure of children.


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COURSE : B.TECH
UNIVERSITY : JNTUH
YEAR : II B.TECH II SEM (R-18)
BRANCH : ECE
SUBJECT NAME : ELECTROMAGNETIC FIELDS & WAVES
FACULTY NAME : DR P PRASANNA MURALI KRISHNA, HOD,
ECE, KRISHNA CHAITANYA INSTITUTE OF
TECHNOLOGY & SCIENCES, MARKAPUR

UNIT - I

Electrostatics: Coulomb's Law, Electric Field Intensity - Fields due to Different Charge Distributions, Electric Flux Density, Gauss Law and Applications, Electric Potential, Relations Between E and V, Maxwell's Two Equations for Electrostatic Fields, Energy Density, Convection and Conduction Currents, Dielectric Constant, Isotropic and Homogeneous Dielectrics, Continuity Equation, Relaxation Time, Poisson's and Laplace's Equations, Capacitance - Parallel Plate, Coaxial, Spherical Capacitors.



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