



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109

INDUSTRY INSTITUTE INTERACTION CELL  
&  
DEPARTMENT OF CCE & CSE (ICB)



## Expert Talk on “Disruptive technologies shaping the future”

**Date of Conduction:** 21<sup>st</sup> December 2023

**Venue:** KSIT Seminar Hall, Ground Floor

**Time:** 10.30AM – 12.00PM

**Duration:** 1.30Hours

**Sponsoring Bodies / Associating Organization:** NA

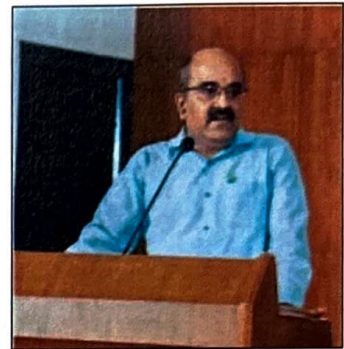
### *Expert Details – with photo*

**Name:** Shri. R. Anantharaman

**Designation:** Senior Advisor; Founder & CEO

**Organization:** Arthur D Little India & Scalepro Bengaluru

### **Brief Profile about the Expert:**



**Shri. R. Anantharaman**, currently working as Senior Advisor at Arthur D Little India; and Founder & CEO - Scalepro Bengaluru. He has 32 years of remarkable leadership experience in P/L Management, Revenue enhancement, Sales & Distribution management, Marketing, Human Resource, Supply Chain, Finance, Legal, and Customer Services. In the telecom and academic industries, he has 24 years of experience, which allowed him to be at the forefront of introducing next-generation technologies since the early days of the telecom revolution in India. Additionally, he has actively participated in various process and quality improvement efforts, such as ISO certification, Six Sigma implementation, and Quality councils. Furthermore, He possess over three years of experience in academic initiatives, including entrepreneurship skilling and education for students and faculty members, livelihood development programs for women, Self Help Groups, and unemployed youths.

### **Description of the Event:**

Disruptive technology is an innovation that significantly alters the way that consumers, industries, or businesses operate. It displaces a well-established product or technology, creating a new industry or market. One of the key features of disruptive technology is its ability to offer consumers new and notable benefits. Even a startup with limited resources can aim at technology disruption by inventing an entirely new way of getting something done. Established companies tend to focus on what they do best and pursue incremental improvements rather than revolutionary changes. They cater to their largest and most demanding customers. Some examples of disruptive technologies include Block chain Technology, Artificial Intelligence (AI), 5G Technologies, Internet of Things (IoT), Drone Technology, 3D Printing, e-commerce, GPS system and many more.

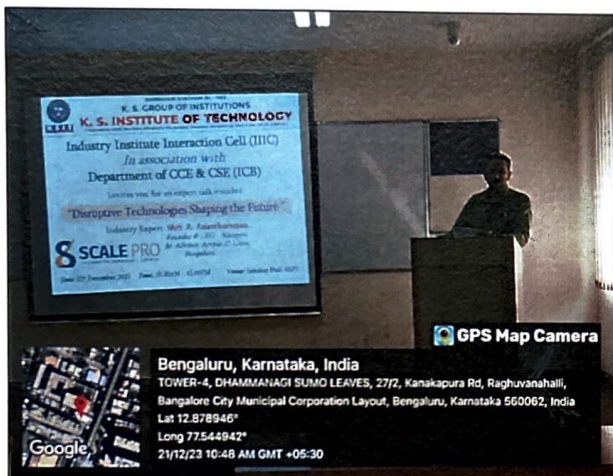
In order to understand the role and benefits of disruptive innovations in entrepreneurship journey of students, Industry Institute Interaction Cell (IIIC) in association with Department of CCE & CSE (ICB) organized an expert talk on the said title for 3<sup>rd</sup> semester students on 21<sup>st</sup> December 2023 at seminar Hall, KSIT. As per the directions of Head, Department of CCE & CSE (ICB), 3<sup>rd</sup> Semester students assembled in seminar hall at 10.25AM. The program started with welcoming the industry expert Shri. R. Anantharaman with a bouquet by Dr. Dilip Kumar K, Principal-KSIT. Mr. Rajesh G.L, Chief coordinator – IIIC outlined the meaning of disruptive technology with examples. Industry expert briefed about key features of disruptive innovation and its ability to offer consumers new and notable benefits. He also explained disruptive technologies including Block chain Technology, Artificial Intelligence (AI), 5G Technologies, Internet of Things (IoT), Drone Technology, 3D Printing, e-commerce, GPS system and many more. Further, program ended with vote of thanks by Mr. Rajesh G.L at 12.00PM.

**Objectives / Key Highlights:**

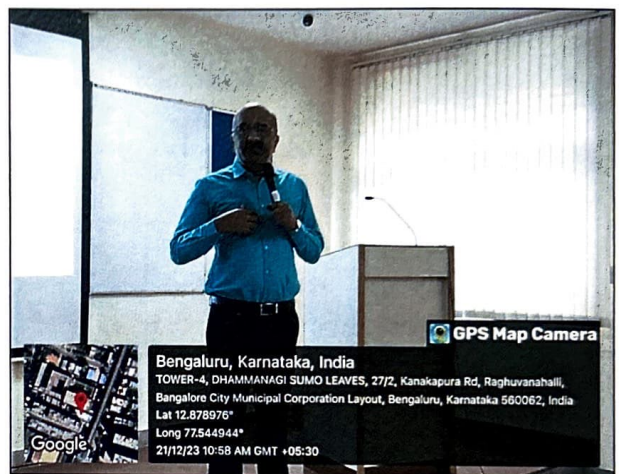
- Understand the role and benefits of disruptive innovations in young minds.
- Explore different types of disruptive technologies and its applications

**Participant details - No. of Participants: 94**  
**Students (internal/external): Internal (CCE – 46; CSE ICB – 48)**  
**Faculty: Prof. Rachana, Asst. Prof. CSE (ICB) & Prof. Shashikala, CCE**

**Photos (Geo Tagged):**



**Welcome address by Mr. Rajesh G.L**



**Industry expert briefing about disruptive technology**



**Explaining about innovation and its benefits**



**Students interaction with the expert**

**Outcomes / Benefits:**

- Students understood the need of disruptive innovation for a successful entrepreneurship journey
- Explored on case studies pertaining to block chain, IoT, 5G Technology and AI.

**Attachments:**

1. Communication with Resource person
2. Resource person Profile
3. Evaluation and Feedback

**CO/PO&PSO mapping - CCE**

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Expert Talk	-	-	-	-	01	-	-	-	-	-	-	-	01	-
Average	-	-	-	-	01	-	-	-	-	-	-	-	01	-

**PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PSO1:** Ability to apply the fundamental concepts of Artificial Intelligence and Machine Learning to design and develop solutions to multidisciplinary problems of social concern.

**CO/PO&PSO mapping – CSE (ICB)**

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Expert Talk	-	-	-	-	-	-	-	-	-	-	-	01	01	01
Average	-	-	-	-	-	-	-	-	-	-	-	01	01	01

**PO12: Lifelong learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**PSO1:** Graduates will demonstrate the technical skills to address real-world challenges in IoT, cyber security, and blockchain technology while upholding ethical considerations and social responsibility.

**PSO2:** Graduates will engage in continuous learning, collaborate cross-functionally, and adeptly create and implement inventive solutions for societal benefit while ensuring digital security and privacy.

Mr. Rajesh G.L

Chief Coordinator - IIIC

Dr. Chanda V Reddy

Head - CCE

Dr. Ganga Holi

Head – CSE (ICB)

Dr. Dilip Kumar K

Principal, KSIT

Industry Institute Interaction Cell (IIIC)  
K. S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

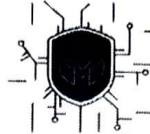
Head of the Department  
Dept. of Computers and Communication Engg  
K. S. Institute of Technology  
Bengaluru - 560 109.

Head of the Department  
Dept. of Computer Science Engg.  
Cyber Security, Blockchain Tech.  
K. S. Institute of Technology  
Bengaluru - 560 109.

PRINCIPAL  
K. S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
ICB (IoT, CYBER SECURITY, BLOCKCHAIN TECH)**



**TALK ON:  
BEYOND WIRES AND WAVES – INTERNET COMMUNICATION  
& NETWORKING PROTOCOLS DEMYSTIFIED**

**Date of Conduction: 11.01.2024**

**Venue: Conference Hall**

**Time:10.30 AM**

**Duration: 2 Hrs**

**Sponsoring Bodies / Associating Organization:NA**

**Name: Mr.Akhil Mohan**

**Designation: Solution Architect**

**Organization: Akamai Technologies**



**BRIEF PROFILE ABOUT THE EXPERT:**

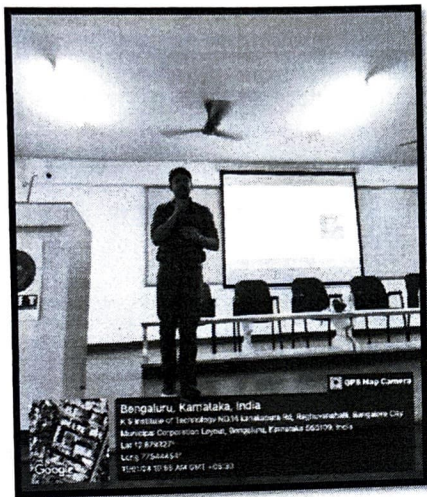
**Mr.Akhil Mohan**, is a Telecommunications Engineer (2013 batch), graduated from KSIT, Bangalore. Akhil is currently working as **Solution Architect** at Akamai Technologies, a leading CDN company. He is an **AWS Certified Solutions Architect Professional**, **Google Certified Professional Cloud Architect**, and **Cisco Certified Network Associate (CCNA)**.

Being an active individual who has a craving for innovation, he has participated and won multiple national level and state level awards during his engineering days. He was awarded the first place in state level for his innovative idea on a device which can write on air. Teaching is his passion and Physics and Cloud Computing is his subject of interest. He has taught JEE-Physics for 11th and 12th standard students at Christ PU college and MCC PU college in Bangalore. He follows Indian economy, and Finance.

## PHOTOS (GEO TAGGED):



## ADDRESSING THE GATHERING BY PRINCIPAL



## TALK ON BEYOND WIRES AND WAVES INTERNET COMMUNICATION



## PRESENTING MEMENTO TO THE GUEST

## OUTCOMES/BENEFITS:

Students understood about the Wires and Waves- Internet Communication. Students gained the knowledge on the networking protocols.

### Attachments:

- Communication with Resource person.
- Resource person Profile.
- Evaluation and Feedback.

## CO/PO&PSO mapping – CSE (ICB)

CO/PO& PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
Expert Talk	-	-	-	-	-	-	-	-	-	-	-	01	01	01
Average	-	-	-	-	-	-	-	-	-	-	-	01	01	01

- **PO12: Lifelong learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
- **PSO1:** Graduates will demonstrate the technical skills to address real-world challenges in IoT, cyber security, and blockchain technology while upholding ethical considerations and social responsibility.
- **PSO2:** Graduates will engage in continuous learning, collaborate cross-functionally, and adeptly create and implement inventive solutions for societal benefit while ensuring digital security and privacy.



**Kushal Kumar B N**

Event Coordinator



**Dr. Ganga Holi**

Head – CSE (ICB)



**Dr. Dilip Kumar K**

Principal, KSIT



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**ICB (IoT, CYBER SECURITY, BLOCKCHAIN TECHNOLOGY)**



**INDUSTRIAL VISIT TO KTPO CONVENTION CENTRE FOR IoT TECH EXPO**

**Date of Visit: 02.02.2024**

**Venue: KTPO Convention Centre White field, Bengaluru, India**

**Time: 10.00 AM TO 6.00 PM**

**Duration: 6 Hrs**

**Sponsoring Bodies / Associating Organization: NA**

**Exhibitors for the event:**

1. 99 World Bater
2. Aad Solutech Private Limited
3. Aaviza Electronics Private Limited
4. Abhas Io Demo Booth
5. Advantech Industrial Computing India Private Limited
6. Altair Engineering India Pvt Ltd
7. Ambiq
8. Anritsu India Pvt Ltd
9. Axis Bank
10. Bevywise Networks Llp
11. Blue Dot Ventures
12. Brain Child Technologies
13. Chipedge Technologies Private Limited
14. Chipmax Designs Pvt Ltd
15. Circuit Electronics
16. Circuit Systems Ltd
17. Conins Pune
18. Fidel Softtech Ltd And Many More.

## **DESCRIPTION OF THE EVENT**

**IoT show** is the premier event in India focused on the Internet of Things industry. This expo cum conference brings together industry leaders, innovators, and experts to showcase the latest technologies, products, and solutions in the IoT space. **IoT show** is the place to be stay ahead of the curve in the rapidly evolving world of IoT. It is one of the “**India’s Largest Expo Cum Conference Dedicated to IoT**”.

IoT India expo showcases organizations leading the way in IoT adoption, enabling them to propel into a new world of business quicker, with more accurate data, ensuring their business can thrive through new technology adoptions. As the leading enterprise event across IoT, Blockchain, AI, Big Data, Cyber Security and Cloud, this event is a great platform for IT Professionals to meet and discuss the future of technology. From enterprise to government, SMBs to technology and service providers, it is suitable for those who are making investment and strategy decisions, or building and executing projects within their organization.

### **OBJECTIVES / KEY HIGHLIGHTS:**

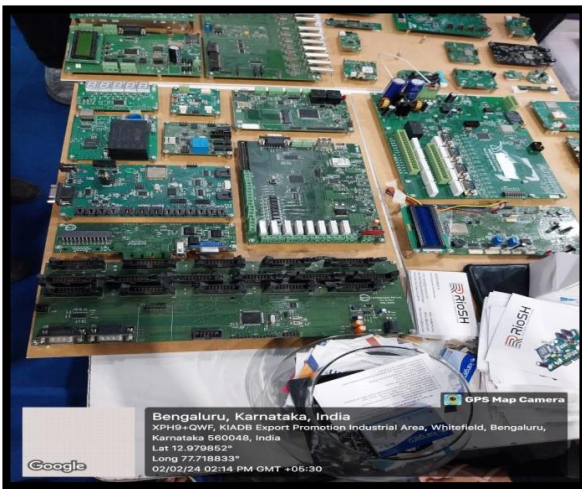
- IoT show displays about latest technologies and products related to IoT, Automation , AI&ML.
- Displays how manufacturing units such as machines are used to insert many chips on PCB’s
- Displays how IoT apps are used in healthcare domain.

### **PARTICIPANT DETAILS**

- ❖ No. of participants in total: 34
- ❖ Students of CSE(ICB) Dept:32
- ❖ Faculty: Dr Ganga Holi (CSE - ICB)
- ❖ Faculty: Prof. Kushal Kumar B N (CSE - ICB)



# PHOTOS (GEO TAGGED):



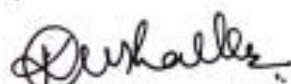
## OUTCOMES/BENEFITS:

Students got exposed to the organizations leading the way in IoT adoption, enabling them to propel into a new world of business quicker, with more accurate data, ensuring their business can thrive through new technology adoptions. As the leading enterprise event across IoT, Blockchain, AI, Big Data, Cyber Security and Cloud, this event is a great platform for IT Professionals to meet and discuss the future of technology.

### CO/PO&PSO mapping – CSE (ICB)

CO/PO& PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
Industrial Visit	-	-	-	-	-	-	-	-	-	-	-	01	01	01
Average	-	-	-	-	-	-	-	-	-	-	-	01	01	01

- **PO12: Lifelong learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
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Kushal Kumar B N

Event Coordinator

  
Dr. Ganga Holi

Head – CSE (ICB)  
Head of the Department  
Dept. of Computer Science Engg.  
(IoT, Cyber Security, Blockchain Tech.)  
K. S. Institute of Technology  
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Dr. Dilip Kumar K  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
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K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109



**KSIT IP CELL and INSTITUTION'S INNOVATION COUNCIL (IIC)  
&  
DEPARTMENT of CCE & CSE (ICB)**

*Workshop on*

**“IPRs and IP management for startups”**

**Date of Conduction: 26<sup>th</sup> May 2024**

**Venue: KSIT Seminar Hall, Ground Floor**

**Time: 09.00AM – 04.00PM**

**Duration: 6 Hours**



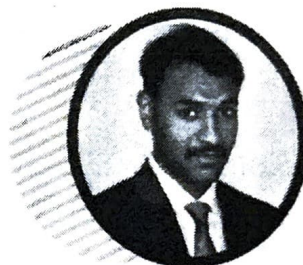
**Sponsoring Bodies / Associating Organization: Karnataka State Council for Science & Technology (KSCST), IISc Campus, Bengaluru.**

*Expert Details – with photo*

**Name: Mr. Nagarjun M.G**

**Designation: Project Associate**

**Organization: KSCST, IISc Campus, Bengaluru**



**Brief Profile about the Expert:**

Mr. Nagarjun M G is currently working as project associate at Karnataka State Council for Science and Technology (KSCST), IISc campus Bengaluru. He completed his graduation in mechanical stream from K S Institute of Technology, Bengaluru and Post-graduation in the stream of Manufacturing science and engineering Siddaganga Institute of Technology, Tumkur.

He participated as well delivered lectures in many faculty developments programs, workshops on IPRs and Biofuels. At council, He was mentored the Bioenergy research & demonstrations centres (BRIDCs) established by Kamataka State Bioenergy Development Board (KSBDB) in all 30 districts in terms of technical & administrative roles. He was also coordinated the projects of Student project programme (biofuel projects), kitchen garden development in chamarajanagar district (funded by DST Vigyan prasara), Glycerol project of NDRI (funded by DST Gol), used cooking oil (UCO) Survey in Bengaluru city etc.

At Patent Information Centre (PIC) and Technology and Innovation Support Centre – TISC, WIPO of KSCST he follows up all the Information Education & Communication activities of PIC including IP filings i.e patents, copyrights, trademarks, designs, Establishment of IP Cells, Institutional Policymaking, visitor consultations and other projects and programmes of the Patent Information center. He is coordinator of Technology Innovation Support Center – WIPO (TISC) of KSCST and the coordinator of KIRAN IPR programme of DST & TIFAC where the programme provides on job training on IPR for selected women candidates under this scheme at KSCST.

#### **Description of the Event:**

Intellectual property rights (IPR) refers to the legal rights given to the inventor or creator to protect his invention or creation for a certain period of time. IP protection can be sought for a variety of intellectual efforts including Patents, Industrial designs, Trademarks, Copyright and Geographical indications. IPR protection gives business a competitive advantage over other similar businesses and also it prevent unauthorized use of your intellectual property and works. It enhances the value of your company and also opens avenues for collaborations and opportunities for generating income such as by entering into licensing agreements to exploit/work the invention/work.

The inaugural function started at 9.00am by welcoming the chief guest and resource person Mr. Nagarjun M.G, Project Associate, KSCST with a bouquet by Dr. K.V.A Balaji, CEO, KSGI and Dr. Dilip Kumar K, Principal & Director, KSIT. Prof. Rajesh G.L, IP Coordinator briefed about the role of IPR in encouraging innovation and creativity and introduced the eminent speaker to the gathering. Mr. Nagarjun M G outlined IP management systems for startups with case studies to the gathering. The function ended with vote of thanks by Prof. Rajesh G.L at 9.35AM.

#### **Session – 1: Introduction to IPR \_ 09:35AM to 11.30AM**

In the session -1, resource person discussed the types of intellectual property rights with case studies. He described patent filing process and its eligibility along with copyrights and trademarks. Few interesting topics such as; how to convert innovative idea to business model, initial steps for filing a patent and design considerations etc. were explained and interacted with students.

#### **Session – 2: Patent filing and protection of idea through patents \_ 11:45AM to 01.45PM**

Mr. Nagarjun explored students on filing a patent with an example. He demonstrated entire filing process with the students and briefed about novelty search and prior art search. Students showed interest and interacted with speaker on conversion of innovative idea into business/startups.

#### **Session – 3: IP Management for startups \_ 02:00PM to 04.00PM**

At the beginning of session -3, Prof. Rajesh G.L, IP cell coordinator conducted quiz on IPR and patent filing process for participants. Upon quiz activity, resource person explained the role of IP management towards establishment of new startups. He illustrated IP tools and techniques which aids in enhancing entrepreneurship skills of an individual. The program ended with vote of thanks by Prof. Rajesh G.L, Coordinator, KSIT IP Cell at 4.00PM.

#### **Objectives / Key Highlights:**

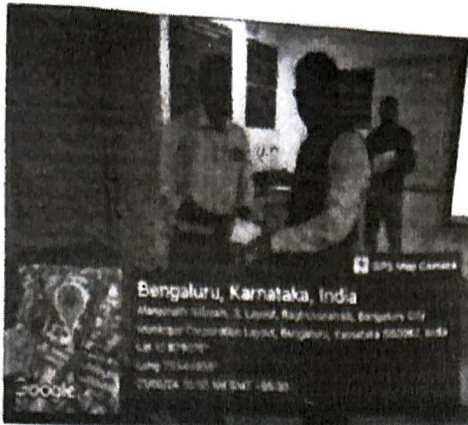
- Understand IP tools & techniques to convert idea into business.
- Explore on patent filing process and IP management.

**Participant details - No. of Participants: 106**

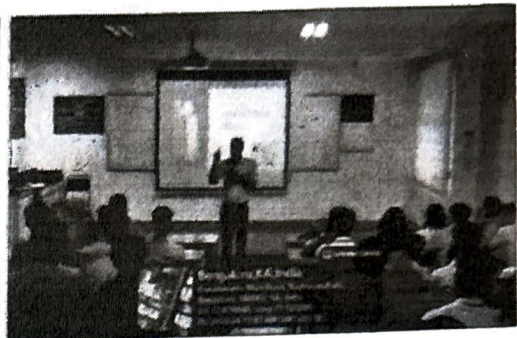
**Students (internal/external): Internal (4<sup>th</sup> Semester – CCE & CSE (ICB)) - 106**

**Faculty: Prof. Shashikala H.C, CCE & Prof. Rajashree M.B, CSE (ICB)**

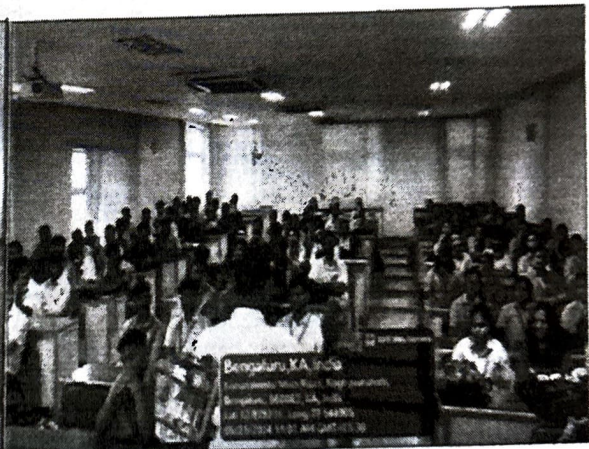
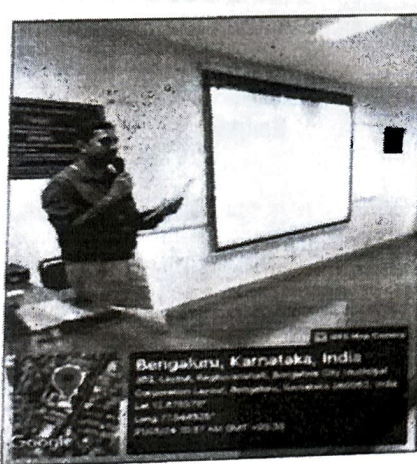
Photos (Geo Tagged):



Welcoming speaker for the workshop Address by Dr. Dilip Kumar K. Principal, KSIT



Mr. Nagarjun M. G interacted with the students and cleared queries related to IPR



Quiz activity for students

speaker briefing about IP management for startups

#### Outcomes / Benefits:

- Students understood the need of IP tools & techniques to protect innovative ideas
- Understood the influence of IPR in managing the business.


#### Attachments:

1. Communication with Resources person
2. Resources person Profile
3. Evaluation and Feedback
4. Budget and Expenditure Details/amount

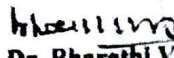
**CO/PO&PSO Mapping - CCE & CSE (ICB)**

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Workshop	-	-	-	-	-	2	-	-	-	-	-	-	-	-
AVERAGE	-	-	-	-	-	2	-	-	-	-	-	-	-	-

**PO6: The Engineer and Society: Apply Reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the CSE professional engineering practice**

  
Mr. Rajesh G.L.

Coordinator, IP  
Cell

  
Dr. Bharathi V

Chief Coordinator, IP  
Cell

  
Dr. Chanda V Reddy

Head, CCE  
Head of the Department  
Dept. of Computers and Communication Engg.  
K. S. Institute of Technology  
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Dr. Ganga Holi

Head - CSE(ICB)  
Head of the Department  
Dept. of Computer Science Engg.  
(IoT, Cyber Security, Blockchain Tech.)  
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Dr. Dilip Kumar K

Principal, KSIT  
PRINCIPAL  
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