



KLS Gogte Institute of Technology, Belagavi

Permanently affiliated and an autonomous institute under Visvesvaraya Technological University, Belagavi | Accredited by NAAC A+ and NBA



IIC ID [IC201810862](#)

IIC 3.0

Annual Report 2020 – 21

A. About IIC Institute

The Karnatak Law Society's Gogte Institute of Technology (GIT), a self-financing Engineering College was established in the year 1979 with a liberal financial donation by the Late Shri Raosaheb B. M. Gogte, a noted Industrialist and philanthropist. It was observed that in the North Karnataka region not many Engineering colleges existed then who could offer a quality education with a professional touch. In the perspective of the same the concept of starting an Engineering college was thought of by Karnatak Law Society.

The college is affiliated to Visvesvaraya Technological University (VTU), Belagavi. The college is recognized by the All India Council for Technical Education, New Delhi, INDIA. The college has been accredited by NBA, New Delhi for the period 2009 to 2012. The Institute offers undergraduate courses in eight disciplines (Civil Engineering, Computer Science Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Industrial and Production Engineering, Information Science Engineering, Mechanical Engineering, and Architecture), six postgraduate programs (M.Tech.) and Master Courses in Computer Applications (MCA) and Masters in Business Administration (MBA). The institute has highly qualified and motivated faculty members who are actively involved in research and are constantly associated with practicing engineers. The departments offer M.Sc. (Engineering) by Research and Ph.D. programmes.

This institute has seen a growth in strength from 180 in 1979 to more than 4000+ students in the academic year 2014-15. The departments have well equipped laboratories with facilities for experiments and studies in areas like Flexible Manufacturing Systems, Biomass Gasification, Fluidized Bed Combustion chamber, Material Testing, CAD/CAM, CMM, Rapid Prototyping, Digital Signal Processing, High Voltage Engineering, VLSI and advanced surveying instrument like Total Station. The institute has received funds of more than a one crore from various agencies such as AICTE, UGC, VTU, VGST for modernization of the laboratory facilities and for research work. A Patent titled "Energy Cluster" is being processed by Department of Mechanical Engineering.

The institute has a very strong Industry-Institute Partnership Cell and Institution's Innovation Council of MHRD.

B. Mission

- To establish an ecosystem to nurture the culture of Innovation amongst the Students and Faculty.

Vision (As laid down by the MHRD, Govt. of India)

- To conduct various innovation and entrepreneurship-related activities in time bound fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize Hackathons, idea competition, mini challenges etc. with the involvement of industries.

• Journey of IIC established at the Institute

Our college has established the Institution's Innovation Council (IIC) for promoting different activities related to innovation, IPR, start up and entrepreneurship. Faculties and students are the members of IIC. The IIC cell conducts quarterly meetings in every quarter to plan the quarterly activities and review quarterly conducted activities. Due to these activities, students get a chance to participate in various innovation related initiatives and competitions organized by MHRD. Students actively interact with renowned businessmen and academicians. They get opportunities to nurture their ideas. GIT's IIC helps students to experiment with the latest technologies to get some prototype for building their confidence. Overall students get an extremely healthy environment right from ideation to start-ups.

Major focus area of IIC is to create a vibrant local innovation ecosystem, Start-up/ entrepreneurship supporting Mechanism, prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework (ARIIA), Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas and develop better Cognitive Ability amongst Technology Students.

- Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.

Name of Member	Member Type (Teaching/ Non-teaching / External Expert)	Department	Key Role/ Position assigned in IIC
Dr. Jayant K. Kittur	Principal		Head of Institute
Dr. Santosh Saraf	President	E&C	President
Dr. Raviraj. M. Kulkarni	Teaching	Chemistry	Vice President
Dr. Kiran K. Tangod	Teaching	ISE	Convener
Vishveshkumar Aithal	Teaching	E&C	Innovation Activity
Mahesh Kori	Teaching	Mechanical	IPR Activity Coordinator
Shashank Bangi	Teaching	Civil	Social Media Coordinator

Raghavendra Jadhav	Teaching	CSE	Startup Activity Coordinator
Uttam Deshpande	Teaching	E&C	ARIIA Coordinator, NIRF Coordinator
Swarooprani Manoor	Teaching	MCA	Internship Activity Coordinator
Dr. Umesh Kulkarni	Teaching	CSE	Coordinator Mentorship prog.
Nikhil Chitragar	Teaching	E&E	Coordinator Impact Lecture Series
A. D. Janaj	Teaching	E&E	Member
Dr. Prasad Kulakrni	Teaching	MBA	Member
Dr. Vani Hundekar	Teaching	MBA	Member
P. S. Upparamani	Teaching	ISE	Innovation Ambassador
Prakash Khangoudar	Teaching	CSE	Innovation Ambassador
Sachin C. Kulkarni	Teaching	Mechanical	Innovation Ambassador
Manjunathgouda Patil	Teaching	Civil	Innovation Ambassador
SANGAMESH PADANAD	External Expert	Bank Manager	Member
PRAKASH MUGALI	External Expert	Entrepreneur	Member from Industry
NEELES CHOUGULE	External Expert	Entrepreneur	Member from Industry

C. Brief mention of key functionaries at the IIC Institute

Name of Member	Member Type (Teaching/ Non-teaching / External Expert)	Key Role/ Position assigned in IIC
Dr. Jayant K. Kittur	Principal	Head of Institute
Dr. Santosh Saraf	President	President
Dr. Raviraj. M. Kulkarni	Teaching	Vice President
Dr. Kiran K. Tangod	Teaching	Convener
Vishveshkumar Aithal	Teaching	Innovation Activity
Mahesh Kori	Teaching	IPR Activity Coordinator
Shashank Bangi	Teaching	Social Media Coordinator
Raghavendra Jadhav	Teaching	Startup Activity Coordinator
Uttam Deshpande	Teaching	ARIIA Coordinator, NIRF Coordinator

Swarooprani Manoor	Teaching	Internship Activity Coordinator
Dr. Umesh Kulkarni	Teaching	Coordinator Mentorship prog.
Nikhil Chitragar	Teaching	Coordinator Impact Lecture Series

D. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

Total No. of IIC Members	21
Total No. of IAs	6
Total No. of faculty	18
Mentors From Portal	6
Pre-Incubation Units	1
Incubation Units	1
IP Facilitation Unit	1

E. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

- Incubation facility is available in the college
- Nain pre incubation facility is available in the college

Student Chapters:

- Change maker's Society Student Chapter
- IEEE Student Branch
- IEEE-WIE AG Student Chapter
- IEI Student Chapter (Electrical)
- ACM Student Chapter
- Computer Society of India
- IEEE PES Student Chapter
- American Society of Mechanical Engineers
- IEI Student Chapter (Civil)
- Fluid Power Society of India
- ISA-Student Section the Indian Society for Technical Education
- Renewable Energy and Smart Innovation Club
- Indian Society of Heating, Refrigerating and Air Conditioning Engineers Student Chapter

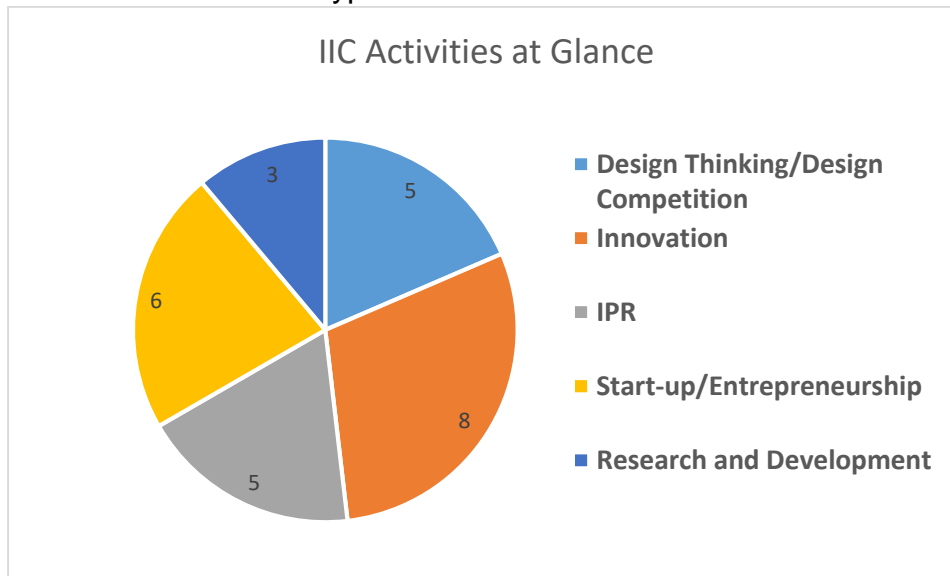
Student Clubs:

- NASA Club
- Retract Club of GIT
- Green Club

- G-FACE
- Engineers Without Borders
- Nano Club
- Renewable Energy and Smart Innovation Club
- Vayuputras

F. Highlight Achievements (Narrative/Graphical/tabular representation)

- Number and Different types of I&E and IPR activities Conducted : 27



- No. of student's & faculty ideas generated : 11
- No. of student's & faculty Innovation/prototypes developed : 11
- No. of IPs generated, published and granted :
 - 2- Filed
 - 1- Granted
 - 1- Published
 - 3 -Copyrights
 1. Flow Control Valve (Patent Filed)
 - Name of Inventor: Dr. M. S. Patil, Dept. of Mechanical
 2. Solar Heating Arrangement for Heating Water (Patent Filed)
 - Name of Inventor: Dr. M. S. Patil, Dept. of Mechanical
 3. Smart Glove for Hearing Impaired (Application Number: 2021141031266) Date: 16/7/2021
 - Name of Inventor: Dr. S. S. Sannakki, Prof. V. S. RajpurohitG Dept. of Computer Science & Engg. And Prof. G.L. Kulkarni Dept. of Information Science & Engineering
 4. Heat Exchanger Pipe Wick (Granted, Design No.: 373166, Patent No.: 50583)
 - Name of Inventor: Dr. Vijay Majali, Dept. of Mechanical Engineering
- No. of Student & Faculty Start-ups/Ventures established.: NIL
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus: Online Mode is followed for Promotion hence no expenditure is incurred.

- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR: NIL
- No. of Technology Transfer and Commercialisation happened: NIL

G. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum: NIL

[Profile of few faculties with 2-3 line of their achievements]

H. Highlight selected best Innovations & images with mention of inventor/innovation name
NIL

I. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name

NIL

J. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation

1. Flow Control Valve

Name of Inventor: Dr. M.S. Patil

The present disclosure seeks to provide a flow control valve. The present disclosure 10 seeks to provide a solution to the existing problem of manual control of flow control valve, gland leakages and fugitive emissions. An aim of the present disclosure is to provide a solution that overcomes at least partially the problems encountered in prior art, and provides an improved control of the flow control valve via a controller and overcomes gland leakages and fugitive emissions.

2. Solar Heating Arrangement for Heating Water

Name of Inventor: Dr. M.S. Patil

The principal object of the present invention is to provide an effective and efficient solar heating arrangement and method for heating water. Another object of the present invention is to provide a more promising and eco- friendly method of heating water with said solar heating arrangement. 10 Another object of the present invention is to provide instant water heating despite subsequent usages in a period of time. Another object of the present invention is to provide a long-term cost and energy saving method in order to make the arrangement more efficient. Another object of the present invention is to provide a method inhibiting the water 15 wastage in the pipes between usages.

3. Smart Glove for Hearing Impaired

Name of Inventor: Dr. S. S. Sannakki, G. L. Kulkarni

Gesture recognition approach has a broad scope of utilizations and employments. This method can be utilized to control gadgets only via motions with no manual connection with the particular machine. Using sign identification, an individual can pin out at the computer or at a versatile screen and utilize linguistic communication to pick and utilize totally distinctive implementations within the device. This linguistic communication employed by deaf and mute folks will be understood by the normal person this method and reborn to content so sanctioning and helping higher conversation among the deaf - mute and other individuals cooperating with them. Signal verbalization is one of the useful ways to ease the communication between the deaf and mute and normal society. Though signing may be enforced to speak, the target person should have a thought of the signing that isn't attainable forever. Thus, it reduces such barriers. This Invention was meant to be a typical example to visualize the feasibility of recognizing sign languages. With this, deaf or mute communities will use the gloves to make gestures in keeping with signing

and also the gestures are going to be converted to speech. The system may be a bridge between traditional and dumb\deaf folks; it fills the gaps of communication between dumb\deaf folks and traditional people. The gloves area unit freelance and it's moveable with minimum weight and low power. The system converts the hand gestures to the text and more to speech. If in some conditions the person can't hear the sound produced there is a provision provided into the system of text due to which the person can read and understand what another person wants to convey.

K. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs

- ARIIA – participation and Rank- Participated results yet to be announced
- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation-Policy is formed and its under implementation
- Smart India Hackathon – GIT team has won Smart India Hackathon 2020

L. Detail of Social Media & Connections of IIC institute

Facebook: <https://www.facebook.com/KLSGITBelagavi>

LinkedIn: <https://www.linkedin.com/company/klsgitbelagavi>

Twitter: <https://twitter.com/klsgitbelagavi>

Instagram: <https://www.instagram.com/klsgitbelagavi/>

M. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell

- Prof. Swarooprani Manoor, Internship Activity Coordinator, IIC, GIT, Belagavi

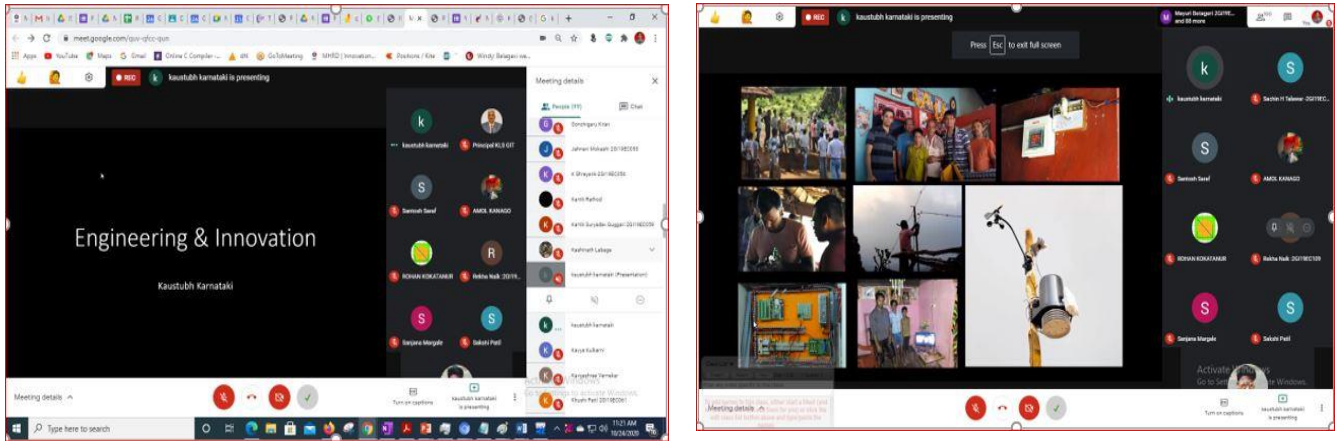
As one of the premier Engineering colleges in North Karnataka, KLS Gogte Institute of Technology aims at supporting and developing entrepreneurial start-up business by young promoters, college students or fresh graduates. IIC is encouraging teachers and students to explore, research, and use all the tools to uncover something new. It works in a very systematic manner. At the start of the term it suggests an array of activities focussing on different aspects of innovation, in its Calendar of Activities. We all wholeheartedly participated in a multitude of activities suggested and conducted by IIC. Our Institute has witnessed a jump in carefully curated activities for its students, setting the pace for the future. To inculcate an innovative and growth-oriented mind-set amongst the students, IIC in our Institute has been actively taking various steps by hosting a multitude of talks, competitions, workshops and extending support to students. IIC at KLS GIT has been successful in paving way for more zealous activities in the times to come.

- Prof. Uttam Deshpane, ARIIA/NIRF Coordinator, IIC, GIT, Belagavi

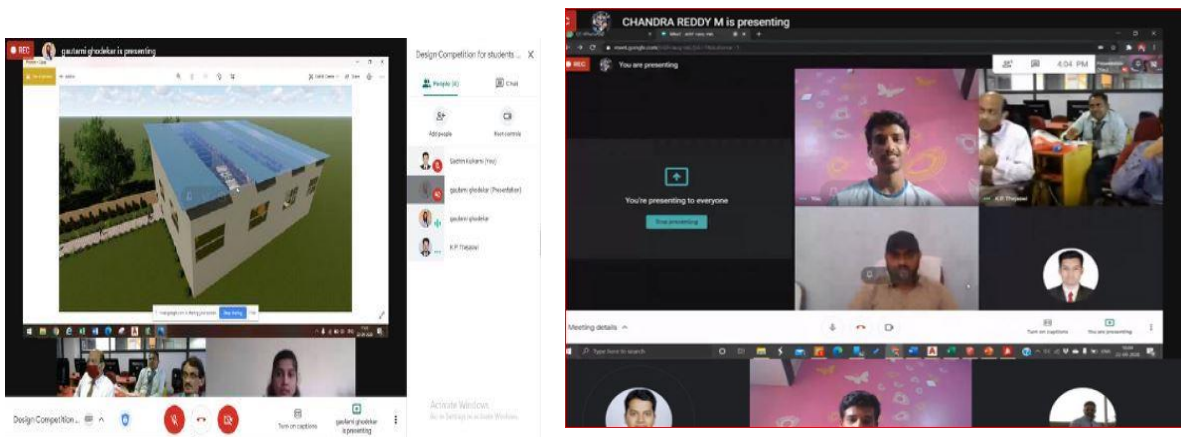
Gogte Institute of Technology, Belagavi is one of the prestigious Technical institute in north Karnataka. MoE's IIC at GIT is involved actively in conducting various activities related to IPR, Innovation, Entrepreneurship, Strat-up, design thinking and Prototype validation and many more. I am extremely happy to be associated with this council as Innovation Ambassador and ARIIA/NIRF Coordinator. With the help of

college management and guidance of AICTE, MoE and IIC, I am sure we will conduct more events in days to come.

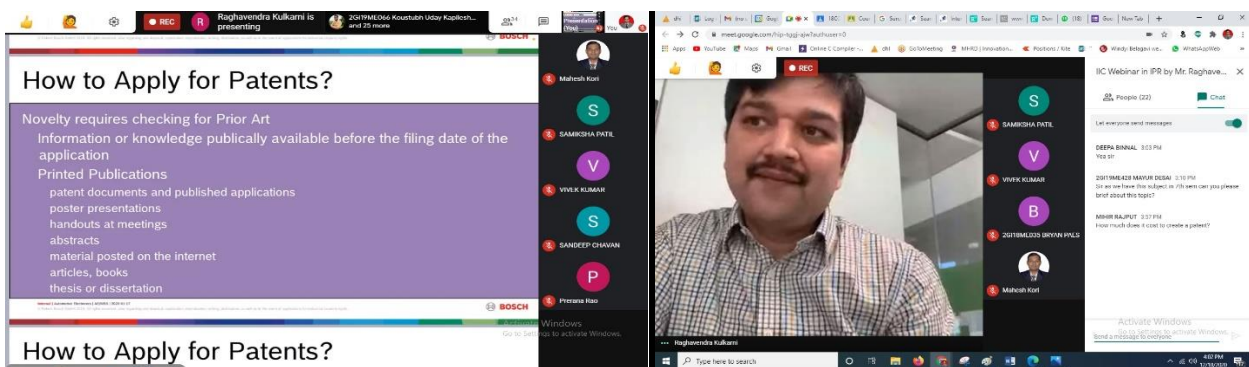
N. Images



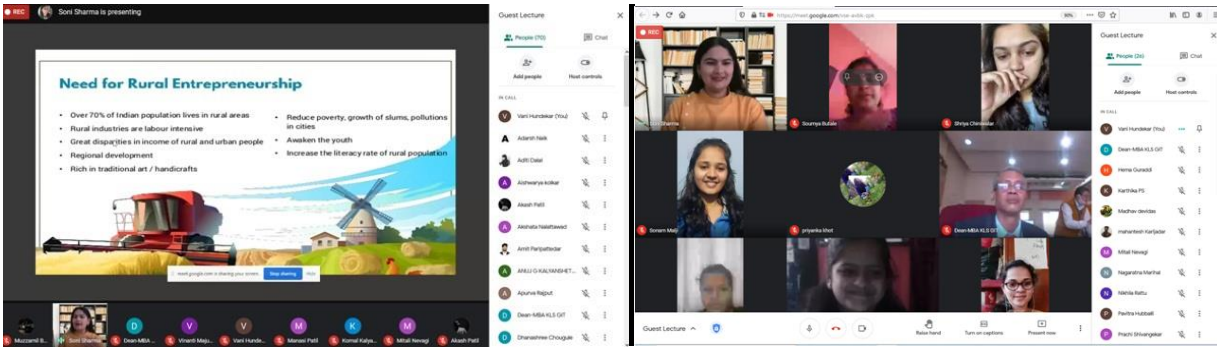
Webinar on Engineering and Innovation By Koustubh Karnataki, Entrepreneur, CTO at AirProbe, Bengaluru



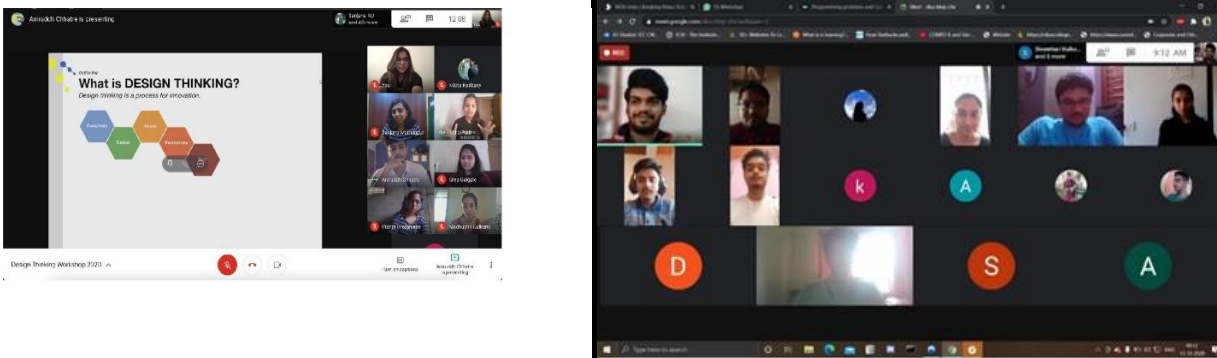
Sports Complex Design Competition for Students



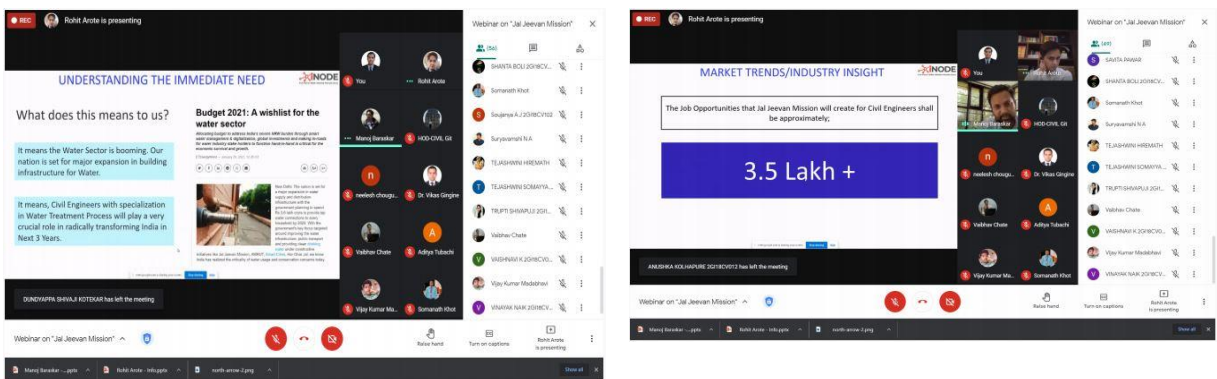
Webinar on IPR by Mr. Raghavendra Kulkarni, General Manager, Bosch Engineering and Business Solutions, Stuttgart, Germany



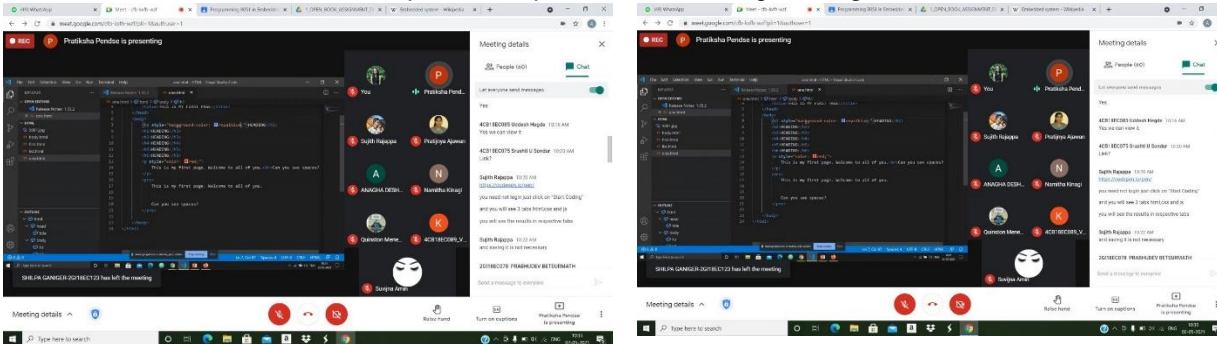
Webinar on Rural Entrepreneurship – Prospects and Challenges by Dr. Soni Sharma



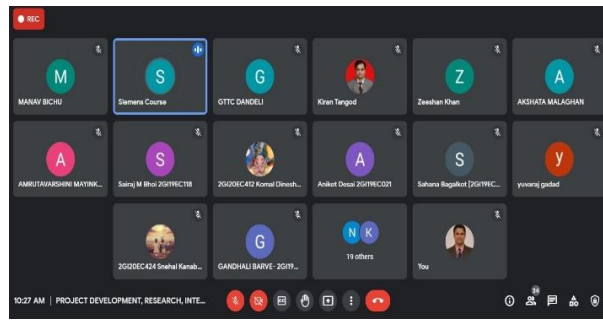
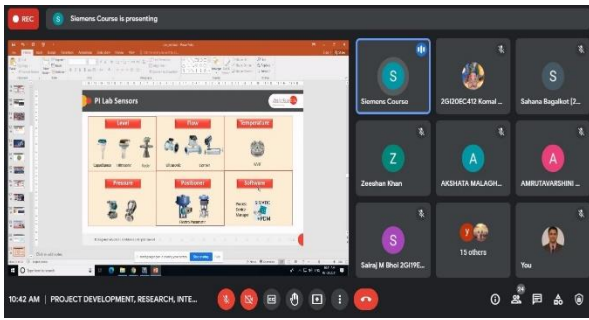
Design Thinking Workshop for students



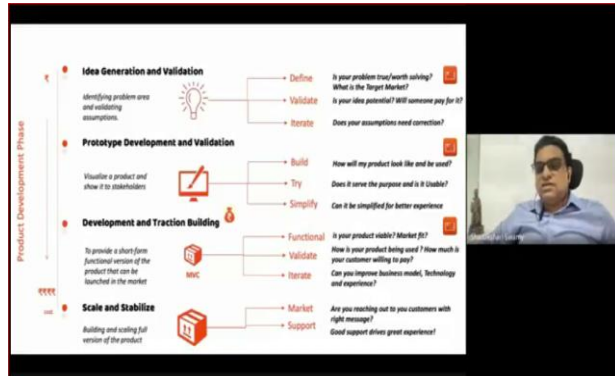
JAL JEEVAN MISSION – an entrepreneurship event for Civil engineering students



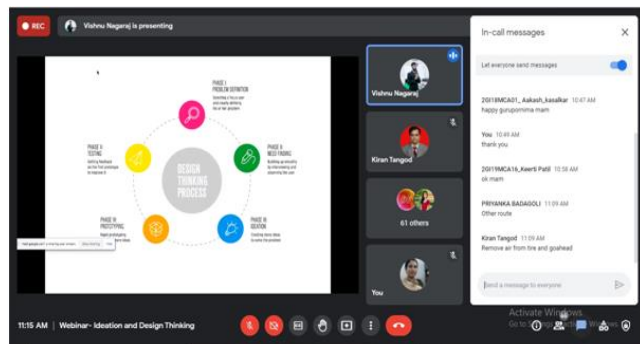
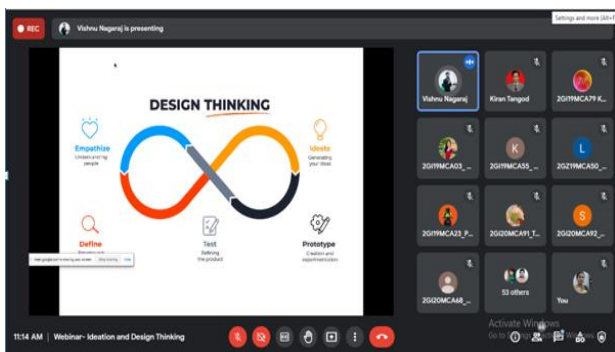
Impact Lecture Session 1: Webinar on "INTELLECTUAL PROPERTY 101 - FROM AWARENESS TO UNDERSTANDING" By Mr. Harsh Pangri, Founder of IP-FY Bangaluru



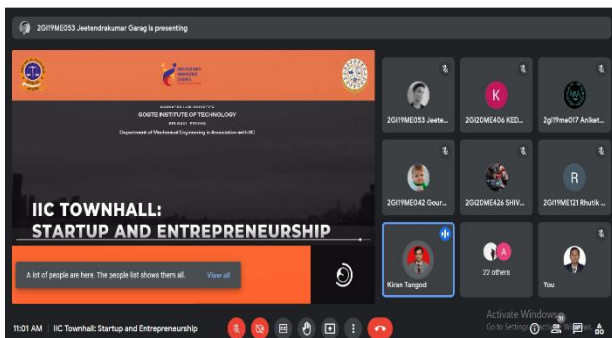
A webinar on Research, Project development, and Internship opportunities for process automation industries by siemens centre of excellence (GTTC, DANDELI)

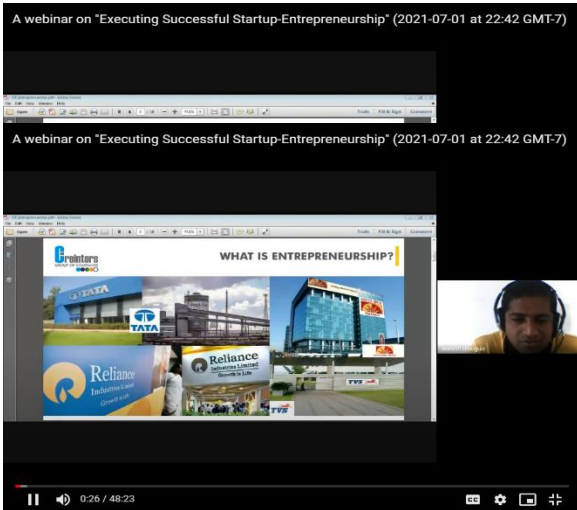


Webinar on Prototype Validation And Converting Prototype Into a Start-up by Mr. Shdakshari Swamy B. C. Founder and CEO, Agamin Innovations Pvt. Ltd. Belgaluru

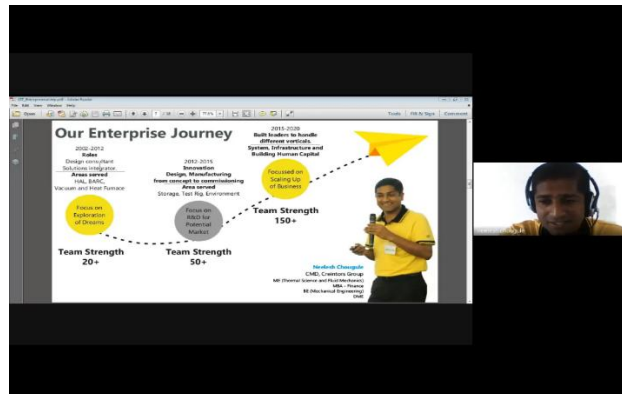


A Webinar on Ideation and Design Thinking by Vishnu Nagaraj Entrepreneur - Innovator - Startup Advisor - IoT - Strategist - Product Architect - Startup Evangelist - TEDx Speaker - International Bridge Programs for Global Expansion Bangalore Urban, Karnataka, India





A Webinar on STARTUP AND ENTREPRENEURSHIP By Shri. R. K. Patil, Cofounder, CEO, Vayavya Labs, Belagavi.



Impact Lecture Session 2: A Webinar On Executing Successful Start-up-Entrepreneurship by Mr. Neelesh Chougule, Chairman and Managing Director, Crientors Teknosol Pvt. Ltd. Belagavi.

O. Contact

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Dr. Jayant K. Kittur
 Principal, IIC, GIT, Belagavi