



IIC ID [IC201810862](#)

IIC 5.0

Annual Report 2022-23

A. About IIC Institute

- Vision / Mission of IIC established at the Institute

Vision

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

Mission

- 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 entrepreneurships. 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.

| Sr. No. | Name of Member | Member Type (Teaching/Nonteaching /External Expert) |
|---------|---------------------------------|---|
| 1 | Dr. Kiran K. Tangod | Teaching faculty |
| 2 | Dr. Raviraj M. Kulkarni | Teaching faculty |
| 3 | Dr. Manjula Ramannavar | Teaching faculty |
| 4 | Prof. Mahesh Kori | Teaching faculty |
| 5 | Prof. Shashank Bangi | Teaching faculty |
| 6 | Prof. VishweshKumar Aithal | Teaching faculty |
| 7 | Prof. Raghavendra Jadhav | Teaching faculty |
| 8 | Prof. Swarooprani Manoor | Teaching faculty |
| 9 | Prof. P.S.Khanagoudar | Teaching faculty |
| 10 | Dr. S C Kulkarni | Teaching faculty |
| 11 | Prof. P. S. Upparamani | Teaching faculty |
| 12 | Dr. Umesh Kulkarni | Teaching faculty |
| 13 | Dr. Vanishree Hundekar | Teaching faculty |
| 14 | Prof. Pavanika Anandkumar Patil | Teaching faculty |
| 15 | Dr. Padma Dandannavar | Teaching faculty |
| 16 | Prof. Vaidehi P Deshpande | Teaching faculty |
| 17 | Prof. Amey Marathe | Teaching faculty |
| 18 | Prof. Vinay Shetty | Teaching faculty |
| 19 | Prof. Shrivatsa D. Perur | Teaching faculty |
| 20 | Prof. Shubha G. Sanu | Teaching faculty |
| 21 | Prof. Ramesh Koti | Teaching faculty |
| 22 | Ms. Seema K. Sawant | Non-Teaching faculty |
| 23 | Mr. Prakash Mugali | External Expert |
| 24 | Mr. Neelesh Chougule | External Expert |
| 25 | Mr. Harsh Pangi | External Expert |
| 26 | Mr. Kartik Kumar Choudhary | External Expert |

B. 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 and Prof. D.A. Kulkarni | Principal | Head of Institute |

| | | |
|----------------------------|----------------------|--|
| Dr. Kiran K. Tangod | President | President |
| Dr. Raviraj. M. Kulkarni | Teaching | Vice President |
| Dr. Manjula Ramannavar | Teaching | Convener |
| Prof. Vishveshkumar Aithal | Teaching | Innovation Activity Coordinator |
| Prof. Mahesh Kori | Teaching | IPR Activity Coordinator |
| Prof. Shashank Bangi | Teaching | Social Media Coordinator |
| Prof. Raghavendra Jadhav | Teaching | Startup Activity Coordinator |
| Prof. Ramesh Koti | Teaching | ARIIA Coordinator, NIRF Coordinator |
| Prof. S. H. Manoor | Teaching | Internship Activity Coordinator |
| Ms. Seema K. Sawant | Non-Teaching faculty | Support staff |
| Mr. Prakash Mugali | External Expert | Expert from nearby Industry/Industry association/ Ecosystem Enablers |
| Mr. Neelesh Chougule | External Expert | Start-up/ Alumni Entrepreneur |
| Mr. Harsh Pangi | External Expert | IPR expert |
| Mr. Kartik Kumar Choudhary | External Expert | Start-up mentor |

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

| | |
|--------------------------|----|
| Total No. of IIC Members | 26 |
| Total No. of IAs | 13 |
| Total No. of faculty | 21 |
| Mentors From Portal | 6 |
| Pre-Incubation Units | 1 |
| Incubation Units | 1 |
| IP Facilitation Unit | 1 |

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

Entrepreneurship in the campus.

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

Student Chapters:

- IEEE Student Branch
- ACM Student Chapter
- Computer Society of India (CSI)
- American Society of Mechanical Engineers (ASME)

Student Clubs:

- NASA Club

- RISE – Social and Innovation Club
 - Renewable Energy and Smart Innovation Club
 - Engineers Without Borders
 - Nano Club
 - Vayuputras
- E. Highlight Achievements (Narrative/Graphical/tabular representation)
- Number and Different types of I&E and IPR activities Conducted - 29
 - No. of student's & faculty ideas generated – 163 (94+14+20+35)
 - Ideas generated out of Idea Innovation Lab – 94
 - The Idea Harvest Challenge – 14
 - Startup Sprint - Intra Institutional Innovation Competition – 20
 - Dreamscape Innovation-B-Plan – Inter Institutional Start-Up Competition– 35
 - No. of student's & faculty Innovation/prototypes developed – 114 (94+20)
 - Prototypes generated out of Idea Innovation Lab – 94
 - Prototypes generated out of Startup Sprint– 20
 - No. of Student & Faculty Start-ups/Ventures established – 2
 - No. of IPs generated, published and granted – 04
 - Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus – Rs. 70000
 - Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR – Rs. 3Lakhs
 - Participated in National/International level hackathon/Any competition
 - Students Participated – 180 (6+43+69+62)
 - Smart India Hackathon – 6
 - The Idea Harvest Challenge – 43
 - Startup Sprint - Intra Institutional Innovation Competition – 69
 - Dreamscape Innovation-B-Plan – Inter Institutional Start-Up Competition– 62
 - Student Winners – 14
 - The Idea Harvest Challenge – 2
 - Startup Sprint - Intra Institutional Innovation Competition – 8
 - Dreamscape Innovation-B-Plan – Inter Institutional Start-Up Competition– 14
- F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum
- Paper submitted by Prof. Shashank C. Bangi: "A modified temperature based model for estimation of potential evapotranspiration over Ghataprabha river basin, south India", has been published in Spatial Information Research journal (Q2) under springer publication in May 2023
- G. Highlight selected best Innovations & images with mention of inventor/innovation name
- i. 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.

ii. 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.

iii. 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.

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

H.1 MPSIT LABS PVT LTD

Founder – Dr. Sujata Bhavikatti, CEO and Director and Associate Professor, Dept. of
ECE, KLS GIT
Co-founder Kusuma Jolad
Director
Company registration details: pan AAPCM1178H
COMPANY URL
<https://mpsitlabs.in>

H.2 Eyesec Cyber Security Solutions Pvt. Ltd.

Founder – Prof. Gajendra C. Deshpande, Asst. Prof, Dept. of CSE

H.3 Hydroponics

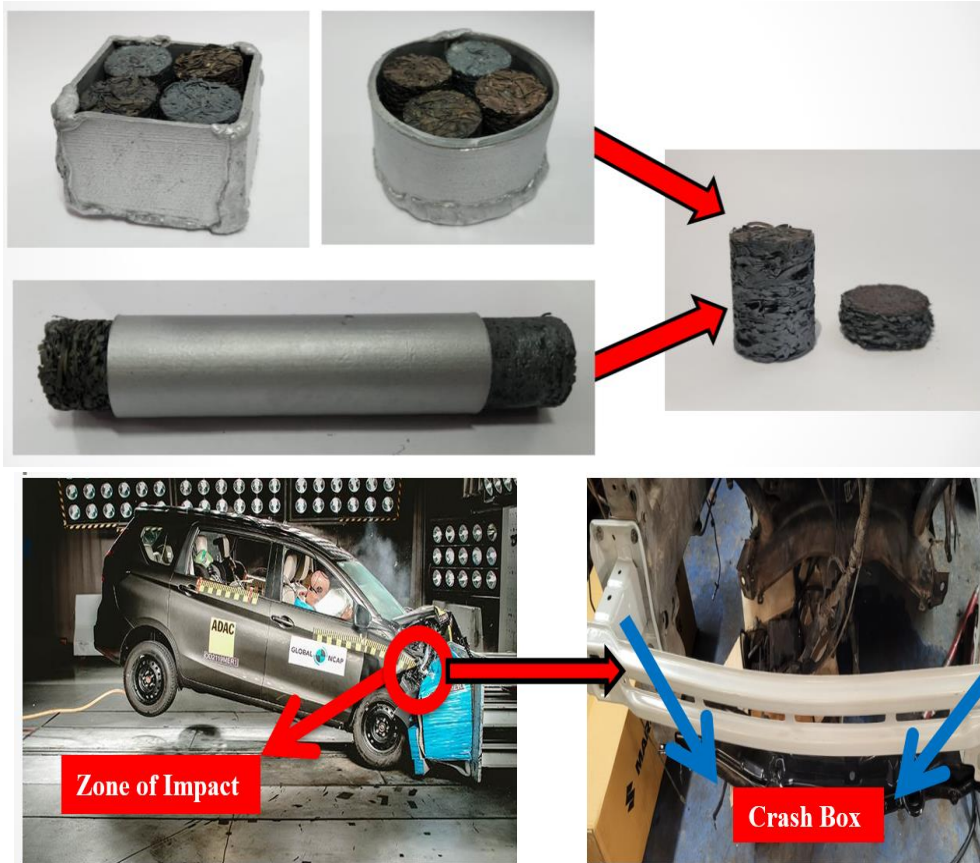
Shrinivas Kulkarni Mech
Rajat S Hanchte, Mech
Abhishek Noganihal, CSE
Aditya Joshi, ECE

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

I.1 Title: Development of Novel Steel Foams from Machining Waste to Enhance the Safety Ratings of Indian Passenger Vehicles

Faculty Supervisor: Dr. Vinayak Malik

Brief Information: A new kind of metallic foam was developed using an unusual processing route of Microwave Sintering and the machining waste generated during regular industrial operations. The developed foams exhibited very high impact energy absorbing ability, making them an alternative option to use in crash boxes of passenger vehicles. It offers a cost-effective and efficient solution to the existing low safety ratings of Indian passenger vehicles.



I.2 Title: Microwave Welding of 3D Printed Parts

Faculty Supervisor: Dr. Vinayak Malik, Vivek Kumar Tiwary

Brief Information: A new technique to join longer and more complex parts was developed to overcome the bed size limitations of smaller 3D printed parts. The process was further fine-tuned such that it could be performed using household microwave ovens. This technique helps make bigger parts with better strength and dimensional accuracy, which are generally impossible with smaller 3D printers.



I.3 Start-up Sprint Winner Team Innovation: “HYDROPONICS”

Team Members: 1) Shrinivas Kulkarni 2) Rajat Hanchate
 3) Shruti Jambotkar 4) Amey Kulkarni

Brief description: Team presented an advanced farming technique where the crops are grown using water. The medium soil which is used conventionally to grow crops is replaced by water fed with necessary nutrients and the crops are grown in PVC pipes and able to produce large number crops in a small area. Hydroponics is rewarding and easy on the pocket technique of plant cultivation, moreover, it gives the liberty to use your creativity and get high volume plant production. Hydroponic systems facilitate a consistent supply of water and required nutrients, eliminating the stress and hit and trial involved with growing herbs in the soil. hydroponics uses no soil, this automatically becomes less of a worry. So No soil-borne diseases, no weeding, and the need to introduce those harmful insecticide sprays into your indoor environment are less expected. Team plans to take parts of non-functional spaces like terraces for rent or lease in residential societies and intend to grow vegetables using hydroponics. The society will have their own source of fresh vegetables straight from their rooftops.

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 mindset 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.

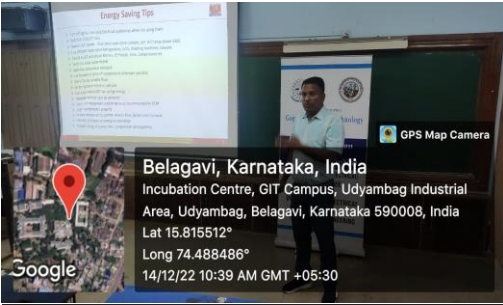
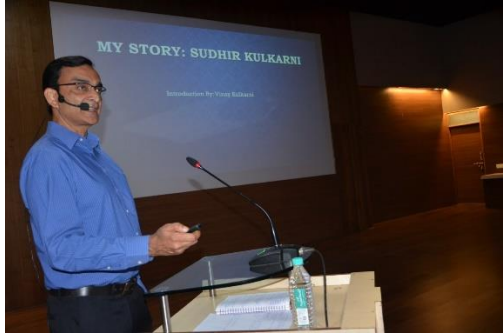


IIC at KLS Gogte Institute of Technology is committed to create a vibrant local innovation ecosystem with the support of entire team of faculty and student members of council, the institute is participating for Atal Ranking of Institutions on Innovation Achievements Framework & implementation NISP policy– Dr. Kiran K. Tangod, President, IIC KLSGIT, Belagavi.




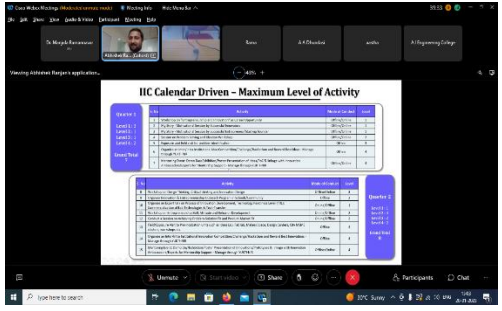
IIC is a very vibrant platform to organize various events related to the innovation, IPR, start-up and entrepreneurship for the benefit of students and faculty fraternity. Due to these activities, students are getting a chance to participate in various innovation related initiatives, idea competitions, Smart India Hackathon & Innovation contests organized by MOE. IIC-MECS has given me an opportunity to attend training programmes at advanced level to be recognized as Innovation Ambassador– Shrivatsa D. Perur, Innovation Ambassador, IIC KLSGIT, Belagavi.

The IIC has wide area of activities to encourage the students and research scholars to make the start-ups. It guides the young people with explaining and demonstrating through the experienced and also with successful owners of the recent start-ups– Ramesh Koti, -ARIIA & NIRF coordinator, IIC KLSGIT, Belagavi.





M. Images



| S.No | Activity Name | Type of Activity | Date | Resource Person / Mentor/ Evaluator | Photographs |
|------|---|---------------------|--------------------------|---|---|
| 1 | Design with Fun - UI/UX FDP | IIC Calendar driven | 07-09-2022 to 09-09-2022 | Mr. Vijay Kamat Lead UX Designer, Athenahealth, Bengaluru |  |
| 2 | "Faculty and Student Development Program on Intellectual Property Rights" | IIC Self Driven | 13-09-2022 | 1) Mr. B Vivek Anand Sagar Consultant and IP Attorney KSCST 2) Mr. Nagarjun M G Project Associate, KSCST |  |
| 3 | The IDEA SEED - Making the World a Better Place | IIC Calendar driven | 28-11-2022 | Mrs. Nita Ajith Technical Lead - Cloud Integration Services, United Techno, Chennai, TamilNadu |  |
| 4 | "THE IDEA HARVEST" Challenge - Making the World a Better Place | IIC Self Driven | 28-11-2022 to 30/11/2022 | Mrs. Nita Ajith Technical Lead - Cloud Integration Services, United Techno, Chennai, TamilNadu |  |


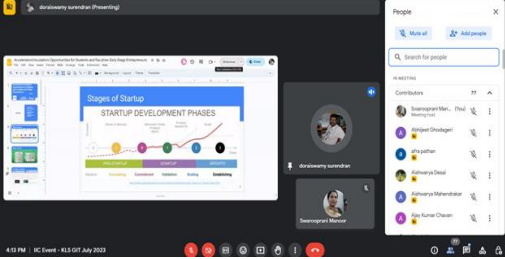

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|---|---|---------------------|------------|---|---|
| 5 | National Energy Conservation Day(India) | IIC Day Celebration | 14-12-2022 | Mr. Subhash Nesargi HoD, Electrical and Instrumentation, Plant Energy Auditor Hindalco Industries Ltd. Belagavi, Karnataka |  |
| 6 | "MY STORY" – A Motivational Talk | IIC Self Driven | 26-12-2022 | Mr Sudhir Kulkarni GM, Data & AI Platforms Intel Corporation, United States |  |
| 7 | IPR Awareness Program | IIC Self Driven | 10-01-2023 | Mr. Jyotish Kumar Patent Examiner (Group A Gazetted Officer), Indian Patent Office |  |
| 8 | IIC Industrial Visit "Startup and Entrepreneurship Exposure Visits" | IIC Calendar driven | 11-01-2023 | Mr. Sunil Angolkar Technical Lead Abhishek Alloys Pvt Ltd., Belagavi |  |


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|----|--|--|------------|---|---|
| 9 | National Youth Day Celebrations | IIC Day Celebration | 12-01-2023 | - |  |
| 10 | MY STORY- Motivational Session By Successful Startup Founder | IIC Day Celebration - National Startup Day | 16-01-2023 | Mr. Yogesh Patil Independent Consultant and Entrepreneur FUTURE TECHNOLOGYS, Belagavi |  |
| 11 | Intellectual Property - From Awareness to Understanding | IIC Self Driven | 19-01-2023 | Mr. Harsh Pangi Founder - IP-FY Head, IPR Cell, MSME and Startups Forum - Bharat |  |
| 12 | Orientation Session on IIC 5.0 & Features | IIC MIC Driven | 20-01-2023 | Mr. Abhishek Kumar Ranjan Innovation Officer, SWRO MOE Innovation Cell |  |
| 13 | Webinar on Entrepreneurship Skill, attitude and behavior development | IIC Calendar driven | 31-01-2023 | Mr. Piyush Yadav Co-founder and CFO IPQuad Partners | |

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|----|--|--|--------------------------|--|--|
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| 14 | STARTUP SPRINT | IIC Calendar driven | 07-02-2023 to 09-02-2023 | <p>1) Mr. Supreet Dixit Director, Reputed Marketing Solutions, Belagavi</p> <p>2) Dr. Govindraj Mane Assistant Professor, Dept of MBA, KLS GIT, BELAGAVI</p> |  |
| 15 | Framework of Indian Patents, Publications and Grants | IIC Day Celebration – National Science Day | 27-02-2023 | Dr. Shivaprasad H. Attorney General of Patents and Designs, Chennai, Gol |  |
| 16 | Leadership Talk with Prof. T. G. Sitharam, Hon'ble Chairman, All India Council for Technical Education (AICTE) | IIC MIC Driven | 30-01-2023 | Prof. T. G. Sitharam Hon'ble Chairman, All India Council for Technical Education (AICTE) |  <p>Jan 30, 2023 11:13:48 AM Udyambag Belagavi Belgaum Division Karnataka</p> |

| | | | | | |
|----|---|---|------------|---|---|
| 17 | "Being the Boss of You", A Motivational Talk | IIC Day Celebration - International Women's Day | 09-03-2023 | Ms. Natasha Ajaonkar Counselling Psychologist Founder, "Mind In Visible" |  |
| 18 | "Creativity and Innovation" | IIC Day Celebration - World Creativity and Innovation Day | 21-04-2023 | Mrs. Samskruti Raikar Learning Consultant, Teachademy, Campus Head of Strategic Development, SamMegh Technologies |  |
| 19 | Workshop on Business Model Canvas (BMC) | IIC Calendar driven | 11-05-2023 | Mr. Kartik Kumar Choudhary Assistant Manager at NSRCEL, a Start-Up Hub at IIM, Bengaluru |  |
| 20 | National Technology Week Inaugural Address of Hon'ble Prime Minister of India | IIC MIC Driven | 11-05-2023 | -- |  |

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|----|--|---|--------------------------|--|---|
| 21 | Data Analytics for Business Decision Making | IIC Day Celebration - National Technology Day | 18-05-2023 | Mr. Sachin S. L. Senior Analyst, OMG Annalect |  |
| 22 | Workshop on Process Design and Development | IIC Calendar driven | 19-05-2023 | Mr. Venkatesh Pattan Co-Founder, Sprint2success, Franchise Partner of CESA, Pune |  |
| 23 | Design Thinking | IIC Calendar driven | 25-05-2023 | Prof. Vineeta Gejji Senior IEEE Member and Prof at AGMR college of Engg., Varur |  |
| 24 | Educational Trail to Vaccine Depot | IIC Day Celebration – World Environment Day | 5-06-2023 | Ar. Nishita Tadkodkar Prof., KLS GIT |  |
| 25 | Dreamscape Innovation – B-Plan Inter Institutional | IIC Self Driven | 07-07-2023 to 08-07-2023 | 1. Dr. Manjula Ramannavar-Faculty KLS GIT | |

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|----|---|---------------------------|------------|---|---|
| | Start-Up Competition | | | <p>2. Ms. Sheetal Bandekar- Faculty KLS GIT</p> <p>3. Mr. Mallikarjun Karehonna- Founder and CEO, My Van</p> <p>4. Mr. Jignesh – Entrepreneur</p> <p>5. Ms. Chetana Sarang- Founder Dattamsh Edu Tech Pvt. Ltd</p> <p>6. Ms. Ashwini Patil- Professional Banking and Insurance</p> <p>7. Prof. Pandurang Upparamani- Faculty KLS GIT</p> <p>8. Prof. Khangoudar- Faculty KLS GIT</p> <p>9. Prof. Shrivatsa Perur- Faculty KLS GIT</p> |  |
| 26 | “Accelerators/Incubation Opportunities for Students & Faculty -Early Stage Entrepreneurs” | IIC Calendar Driven | 14-07-2023 | <p>Dr. Surendran Doraiswamy Founder & CEO – SKS Skill Fasteners Pvt. Ltd. Coimbatore, Tamilnadu</p> |  |
| 27 | Independence Day- Celebrating Aazadi Ka Amritkal | IIC Day Celebration | 15-08-2023 | |  |
| 28 | Social Change through Social Entrepreneurship | IIC Day Celebration World | 21-08-2023 | <p>Mrs. Roopa Cholapache and Mr. Shekhar Cholapache</p> | |

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|--|--|------------------------|--|--|---|
| | | <p>Environment Day</p> | | <p>Social Entrepreneurs and Founders, Anand Yatri Old Age Home</p> |  <p>Belagavi, Karnataka, India RRC-3BM, Udyambag Industrial Area, Udyambag, Belagavi, Karnataka 590008, India Lat: 15.8185089° Long: 74.488031° 21/08/23 12:12 PM GMT +05:30</p> |
|--|--|------------------------|--|--|---|

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