# SAMBHRAM
## INSTITUTE OF TECHNOLOGY

# ELITE
## NEWSLETTER

AUGUST 2021 TO JANUARY 2022

VOLUME: 9

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# CONTENTS

## OUR MISSION

Work oriented education combined with ethical values, character building in context of today's millennium.

To create excellent infrastructure facilities, state-of-the-art laboratories and incubation centres.

To enhance the leadership qualities among the youths and enrich personality traits and promote patriotism and moral values.

To cultivate the basic qualities among students to build up a strong character and imbibe a sense of moral, ethical and spiritual values.

Sambhram Institute of Technology strives to provide excellent academic ambiance to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful research and ethical service to sustainable societal needs.

## OUR VISION

The future is embodied in the present generation. Professional education combined with practical exposure to create values in the students who are the future of our nation.

## YOUR FUTURE IS CREATED BY WHAT YOU DO TODAY, NOT TOMORROW
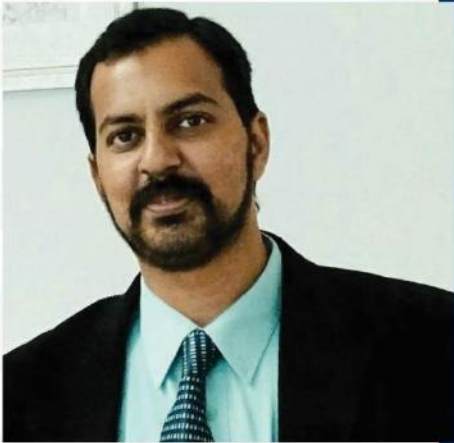
It is my pleasure to congratulate the editorial board on this pleasant occasion of releasing the newsletter for the period August 2020 to January 2021. It is great to find a considerable number of winners and participants in co-curricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and possess necessary quality skill-sets to bring such laurels to the institution. I wish that this number may grow in the years to come. I am sure that publishing a newsletter of this sort containing the achievements of the SaIT family will be a recognition to them. I wish them all the very best for future endeavours.

Dr. V Nagaraj
Chairman
Sambhram Group of Institutions.

The newsletter which is being rolled out today marks the launch of an effervescent activity that would enable the Management to bring out to the eyes of the competitive world, the academic achievements of our prestigious institution. Sambhram Institute of Technology has grown in leaps and bounds, hurtling across barriers along the way. This has been made possible with the collaborative effort of the Management, the Staff and the Students. I congratulate everyone for their commitment.

Dr. H. G. Chandrakanth
Principal
Sambhram Institute of Technology.

# MESSAGE FROM THE CHIEF-EDITOR

Dr. T John Peter
Head of the Department
Department of CSE
Sambhram Institute of
Technology

Being the Editor In charge of the Sambhram Institute of Technology bi-annual magazine - Elite, it gives me great pleasure to bring to you this issue. Elite is designed to present to its readers the year's events that have gone by, the magazine also showcases the talents of our faculty members and students. With a sense of pride and satisfaction I would like to say that with the active support of the management, faculty and students, Elite has come alive. With all the efforts and contributions put in by the students, I truly hope that the pages that follow will make some interesting reading. I congratulate the editorial team for making Elite innovative and inspiring.

# EDITOR'S NOTE

It gives us immense joy and satisfaction to finally re-introduce our very own college magazine "ELITE". Just like the gods and the asuras churned the ocean of milk to extract the nectar, we have tried to churn out creativity from this mess of science. A lot of effort has gone into the making of this issue.We hope you enjoy reading the magazine.The best thing about this issue is that it represents the creative side of I SAIT  STUDENTS and faculties to a fair degree-something that we think we all need to reconnect with.

"Effective leadership is not about making speeches or being liked; leadership is defined by results not attributes."

\- Peter Drucker



Mrs. Mallamma C G
Chief Co-Ordinator
Dept. of CSE

Mrs. Yoganandini, Dept. of ECE
Mrs. Indi Jayashree M, Dept. of ISE
Dr. Mallikarjun U B, Dept. of Civil
Dr. Sitaram, Dept. of Mech.
Dr. M T Swamy, Dept. of Chem.
Mrs. Rashmi Rajeev, Dept. of Placement



Steven F G
7th Sem
Dept. of CSE



Priyanka M S
7th Sem
Dept. of CSE

# ACKNOWLEDGEMENT

The price of success is hard work, dedication to the job at hand, and the determination that whether we win or lose, we have applied the best of ourselves to the task at hand."

It gives us immense pleasure to release the 9th edition of the departmental magazine "ELITE".

We would like to express our deep gratitude to Dr. V Nagaraj, The honourable chairman, Dr. H G Chandrakanth, The principal, Sambhram Institute of Technology, in bringing out this magazine.

We take pride in acknowledging the insightful guidance of Dr. TJohn Peter, Head of the Department, CSE in making of the magazine. Of the many people who have been enormously helpful in the production of the magazine, we are very grateful to the forum co-ordinators Prof. Mallamma Goudar and students of Computer Science & Engineering

We would like to offer our special thanks to the faculty of CSE. Their support, encouragement and credible ideas have been great contribution in the successful completion of this magazine.

# PREFACE

The Sambhram Institute of Technology was established by a team of experts who are a perfect blend of industry and academia. The founders of this Institution and others, who are associated with us, are eminent educationists, distinguished personalities and philanthropic minded persons who have laid a solid foundation and are nurturing it to grow phenomenally. With commendable dedication, determination, optimistic and indomitable courage, the managing committee members have pledged to shape the institution to a gigantic position in the near future. It was Established in 2001 with four engineering branches namely Computer Science, Electronics & Communication, Information Science & Mechanical, today SaIT offers 5 Under Graduate Engineering programmes, 2 Master Degree programmes and 5 Doctoral programmes and rated among top Engineering Institutions in the Bangalore. Current annual student intake for Undergraduate Programmes & Post Graduate Programmes in Engineering is around 1200.SaIT aims at an integral training of students forming them into genuine persons with relevant skills, values and attributes in such a way that they are enabled to develop a career sensitive to the challenging world of technological advancement and to live for the prosperity of every human being. We cultivate the basic qualities among students to build up a strong character and imbibe a sense of moral, ethical and spiritual values. Towards this end, we are imparting an integral training to transform students to genuine citizens for the prosperity of every man and woman in our country. The Sambhram Institute of Technology is committed to create quality professionals to meet the emerging industrial and social needs through innovative teaching applied research, Industrial Interaction, Placing faith in human values and aiming at continual improvement in all activities. We strive to provide the quality education that meets the need and aspirations of the students, employers and society. The institute aims to respond to all of these groups by providing curriculum and support which is necessary to enable the progression and to allow individuals to grow, develop and become universally accepted technocrat.

# COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering (CSE) has grown exponentially over the last few years, evolving to meet demands of the 21<sup>st</sup> century. It is the study of the theoretical foundation of information and computation of practical techniques for the implementation, an application in computer system. The program gives the students a firm footing into the intricacies of its technology such as circuits, design, structures language, processors, operating systems, database management, simulation and modeling. The engineers of computer science find themselves at a very advantageous position in the carrier field. Manufactures of computer, electronic gadgets, communication products, highly specialized processors such as in automobile, aircraft, satellite, shipping etc. requires trained computer science engineers.

1. **Papers published or Presented by faculties/Students:**
   - Dr. T. John Peter & S.Nirmal Raj has Published paper in Asian Journal of control Wiley online Library titled **"Earlier Detection of Brain Tumor Bypre-processing Based on Histogram Equalization with Neural Network"** on October 2021.

   - Students of 7<sup>th</sup> semester Sri.Steven F G, and Sri.Gurukiran N have developed a mobile application for **KPCL " Thermify"** for boiler of super critical Thermal power plant under the guidance of Dr.T John Peter,HOD,Department of Computer Science and Engineering.

   - Prof. Anuradha U has presented paper title " **A Comprehensive Review on lond Records and lond Division in India Using Blockchain Technology"** in the AICTE sponsored two days National Conference on " Critical Thinking for GenZ-Maltidisciplinary Approach (CTGZMA-2021)" in association with ISTE organised by the Deoartment of Master of computer Applications, RV College of Engineering, Bengaluru during 28-29 october 2021.

2. **Faculty Members Registered for PhD.:**
   1. Prof.Anuradha U has registered for PhD at Visvesswarya Technological University, Belagavi, Title **" Crypting of Land Records and Land Devation in India using Blockchain Technology"** Under the guidance of Dr.V Nagaveni, Professor Department of Computer Science and Engg. Acharya Institute of Technology,Bengalore.

   2. Prof.Kishore P J has registered for PhD at Visvesswarya Technological University, Belagavi, Title **"A Novel Architecture for early diabetes prediction using Machine Learning"** Under the guidence of Dr.Shashidhara H R, Professor Department of Computer Science and Engg. RNSIT,Bengalore.

3. **Top Recruiters:**
   - Infosys, Mind tree, Cognizant, Tech Mahindra, Netty Fish, Amazon,

EVOSYS, TCS, Wipro, IBM, Sonata Software, No Broker, Sasken, Denave India Pvt. Ltd.

## 4. Number of Students placed:

A proud moment of CSE students who got placed in the below mentioned companies:

- Cognizant, 12 students are placed, 4.5 LPA
- Silicon India, 8 students are placed, 2.16 LPA
- Microland, 1 student placed, 2.71 LPA.
- TCS, 15 students are placed, 3.30 LPA.
- MindTree, 3 student is placed, 4.0 LPA.
- Wipro, 10 students are placed, 3.5 LPA.
- Neosoft Technologies, 4 student is placed, 3.6 LPA.
- Kaar Technologies, 1 student placed, 8.00 LPA.
- SaskenTechnologies, 4 students are placed, 5.0 LPA.
- PLM Trainee, 1 student is placed, 3.0 LPA.
- Infosys, 7 student is placed, 3.6 LPA.
- NTT Data, 2 students are placed, 3.5 LPA.
- Tech Mahindra, 1 student is placed, 3.5 LPA.
- DELL Technologies, 1 student is placed, 7.05 LPA.
- IBM, 1 student is placed, 4.25 LPA.
- Expleo Groups, 13 students are placed, 3.0 LPA.
- QUEST Global, 4 students are placed, 3.25 LPA.
- Torry Harris Business Solution Pvt.Ltd, 1 student is placed, 5.35 LPA.
- Capgemini, 2 students are placed, 3.7 LPA.
- Career Labs,2 students are placed,6.0 LPA
- Tata Elaxsi Ltd. 1 student placed, 3.5 LPA.
- Mphasis, 1 student placed, 3.25 LPA.
- DXC(Team Lease), 6 students are placed, 2.64 LPA.

## 5. Highest package:

- 8.00 LPA from Kaar Technologies

## 6. FDP/Workshop/Conference attended by Faculties/Students:

- Prof. Anuradha U, Assistant professor of Sambhram Institute of Technology participated & completed successfully AICTE And Training(ATAL) Academy Online Elementary FDP on " **Practical insight into key concepts of Blockchain"** from 12 August, 2021 to 16 August, 2021.at Ramaiah Institute of Technology.

- Prof. Anuradha U, of Sambhram Institute of Technology has participated in an online Webinar on " **Importance of Research and Innovation in Academics"** conducted by Department of MCA, Nitte Meenakshi Institute of Technology, Bangalore on 08th August, 2021.

- Prof. Srikanth S P, Assistant professor of Sambhram Institute of Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on **"Introduction To deep learning"** from 20/12/2021 to 24/12/2021 at University Visvesvaraya College of Engineering.

- Prof. Srikanth S P, from Sambhram Institute of Technology has participation in a webnar on **" Best practices for effective implementation of NEP-2020"** held on 29-01-2022, Organised by NEP Task Force Committee of VSISCM.

- Prof. Sindhu k from Sambhram Institute of Technology, Bangalore has participated and successfully completed the 5-day online FDP on the theme **" Inculcating Universal human Values in Technical Education"** organized by All India Council for Technical Education(AICTE) from 16 August, 2021 to 20 August, 2021.

- Prof. Sindhu K from Sambhram Institute of Technology, Bangalore has participated in the One-Day Online Workshop on **" How to Conduct the Student Induction (STP)program"** on 20th September 2021 organized by All India Council for Technical Education(AICTE).

- Prof. Priyanka T from Sambhram Institute of Technology, Bangalore has participated and successfully completed the 5-day

- online FDP on the theme **" Inculcating Universal human Values in Technical Education"** organized by All India Council for Technical Education(AICTE) from 16 August, 2021 to 20 August, 2021.

- Prof. Priyanka T from Sambhram Institute of Technology, Bangalore has participated in the One-Day Online Workshop on **" How to Conduct the Student Induction (STP)program"** on 20th September 2021 organized by All India Council for Technical Education(AICTE).

- Prof. Shamala P from Sambhram Institute of Technology, Bangalore has participated and successfully completed the 5-day online FDP on the theme **" Inculcating Universal human Values in Technical Education"** organized by All India Council for Technical Education(AICTE) from 16 August, 2021 to 20 August, 2021.

- Prof. Shamala P from Sambhram Institute of Technology, Bangalore has participated in the One-Day Online Workshop on **" How to Conduct the Student Induction (STP)program"** on 20th September 2021 organized by All India Council for Technical Education(AICTE).

- Prof. Tejashwini B P from Sambhram Institute of Technology, Bangalore has participated in the One-Day Online Workshop on **" How to Conduct the Student Induction (STP)program"** on 20th September 2021 organized by All

India Council for Technical Education(AICTE).

- Prof. Mallamma C G from Sambhram Institute of Technology, Bangalore has participated and successfully completed the 5-day online FDP on the theme " **Inculcating Universal human Values in Technical Education"** organized by All India Council for Technical Education(AICTE) from 13 September, 2021 to 17th September, 2021.

- Prof. Tejashwini B P from Sambhram Institute of Technology, Bangalore has participated and successfully completed the 5-day online FDP on the theme " **Inculcating Universal human Values in Technical Education"** organized by All India Council for Technical Education(AICTE) from 13 September, 2021 to 17th September, 2021.

- Prof. Srikanth S P, from Sambhram Institute of Technology has participation in a webnar on **" Open source tools for research & Development"** Organized by the Department of Computer Science & Engineering,SJCIT Chikkaballapur on 5th February 2022.

- Ms. Tejaswini C S of 5th sem has successfully completed the campus Ambassador Internship Program with NEO Foundation from 06th November to 6th December 2021.

- Ms. Tejaswini C S of 5th sem has attended the workshop on

" **Cross Platform Mobile Application Development"** conducted by ATS Learning Solutions.

- Mr. Anisa Khanum of 5th sem has successfully Qualified the 2nd round of **"National Engineering OLYMPAID 5.0"** conducted on December 2021.

- Mr. Prabhakar Kumar of 5th sem has successfully Participated in **"3-4 Hours Live let' s Talk English"** Workshop conducted by Aman on December 2021.

7.    **Workshop/Tech talk/Seminar programs Conducted:**

- Conducted one day online webinar on " **Artificial intelligenc and Machine Learning"** by Mr.Mayur Akewar,Principal Development Engineer,V2 Solutions,Navi Mumbai for 7th semester students on 6th December 2021.

Chancellor,VTU,Belagavi and former Chairmen,NITK,Surathkal.



- Conducted one day online webinar on **" Python Programming"** by Mr.Vinay M Harista,Co-Founder Vtricks Technologies, Bangalore for 5th semester students on 22nd December 2021.

- Conducted two days online Student Induction Program 2021 for First year students on **"Essence of Heartfulness Meditation for Peaceful life"** by **Mr. Nitin Nirmal,** on 27th December 2021 from 10:00 am to 11:00 am.
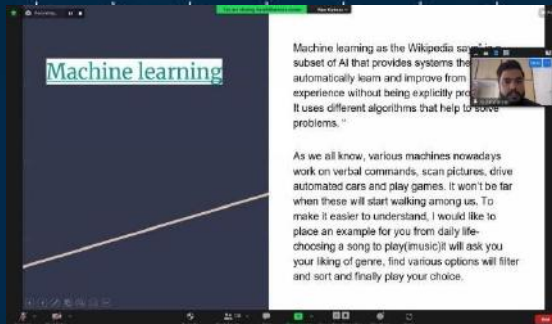




- Conducted online **"Student Induction Program 2021"** for First year students.The program was inaugurated by **Dr. K .Balaveera Reddy**,Former Vice

- Conducted two days online Student Induction Program 2021 or First year students on **"Current Trends in Engineering and Education" Dr.Thriveni J Professor,UVCE, Bangalore,** on 27th December 2021 from 11:00 am to 1:00 pm.
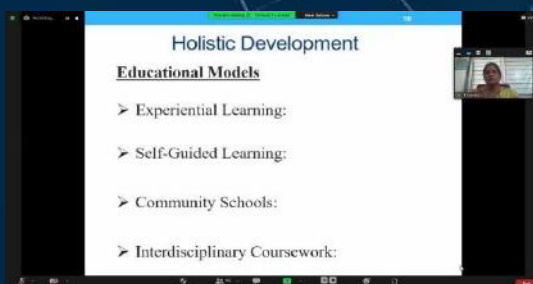


- Conducted two days online Student Induction Program 2021 for First year students on **"Corporate world**

**and key Innovative Technologies"** **by Mr. Rachit Sharma,** on 27th December 2021 from **2:00pm-3:00pm**.



- Conducted two days online Student Induction Program 2021 for First year students on "**Quiz competition**" by 7th semester students, Department of Computer Science and Engineering, on 27th December 2021 from 3:00pm-4:00pm.



- Conducted two days online Student Induction Program 2021 for First year students on **"Work Towards Your Dreams" by Mr. Akshay V Agasthya**, Vice President of Genesis Training, on 28th December 2021 from 10:00am-11:00am.

- Conducted two days online Student Induction Program 2021 for First year students on **"Orientation towards Technical Education"** by Dr. SrikantaMurthy K, Vice-Chancellor, Sri Sathya Sai University of Human Excellence, on 28th December 2021 from 11:00am-12:00pm.



- Conducted two days online Student Induction Program 2021 for First year students on **"5D's For Student Life To Achieve Success"** by Dr. Ajit Padyana, HOD Department of CSE, Acharya IT, Bengaluru on 28th December 2021 from 12:00pm-1:00pm.



- Conducted two days online Student Induction Program 2021 for First year students on **"Universal Human**

**Values, Holistic Education, Understanding of oneself and Happiness"** by Prof. Srikanth S P, Associate Professor department of Computer science and Engineering, Sambhram Institute of Technology, Bengaluru on 28th December 2021 from 2:00pm-3:00pm.





- Conducted One day offline webinar on " **Threaded Binary Tree**" by Mrs. S.Shwetha, Assistant Professor,RVCE, BangaloAre for 3rd sem students on 13th January-2022.
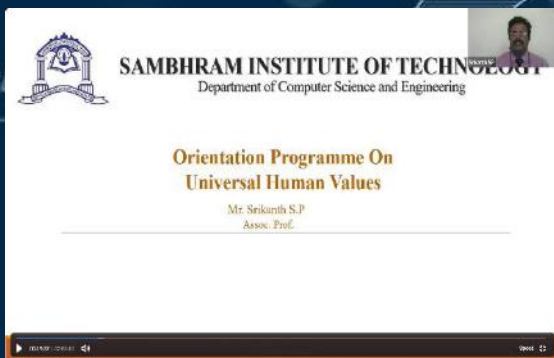


- Conducted two days online Student Induction Program 2021 for First year students on " **Photography and Logo Design"** competition by 7th semester students, Department of Computer Science and Engineering, on 28th December 2021 from 3:00pm-4:00pm.

## 8. CULTURAL EVENTS

Kannada Rajyotsava has been celebrated on 27th November 2021 at Sambhram institute of technology Bangalore, Students of CSE participated in Fashion show, Group dance, singing competition.

# ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics &communication Engineering (ECE) has grown exponentially over the last few years, evolving to meet demands of the 21st century. It is the study of the theoretical foundation of Technologies & techniques for theimplementation, pioneer in an application of Electronics & communication system. The program gives the students afirm footing into the intricacies of its technology such as circuits, design, structures language, processors, operating systems, database management, simulationand modelling. The Engineers of ECE find themselves at a very advantageous position in the carrier field.Manufacturers of computers, electronic gadgets, communication products, highly specialized processors such as in Automobile, Aircraft, Satellite, Telecommunications etc., requires trained Electronics and Communication Engineers.

PhD Registered Faculty Details:

1. Prof.S.Sowndeswari (Coursework Completed).

2. Prof.Manjula.G.Hegde (Coursework completed).

3. Prof. Shilpa. C (Coursework Completed).

4.Prof.Trupti K (Comprehensive viva completed).

Paper / Book Publications by Faculties of ECE:

Dr. Shreesha Kalkoor M

1. 1.Published a paper entitled "Fingerprint Recognition System for Person Authentication" in Wutan Huatan Jisuan Jishu Journal, ISSN: 1001-1749, Volume XVIII, Issue II, Page No: 91 - 97, February/2022.

2. Published a book entitled "Optimization of leakage power using Common Power Format" in LAP LAMBERT Academic Publishing, ISBN-13:978-620-2-55384-1.

3. Published a book entitled "Design and Implementation of the Sixth Sense Gesture Recognition System" in LAP LAMBERT Academic

Publishing, ISBN-13:978-620-2-676038.

4. Presented and published paper on "Ethernet Networking" in National conference on Recent Innovations in science & engineering held on 20th November 2021, conference proceeding: ISBN : 978-93-91535-00-1.

5. Presented and published paper on "Paraffin level detector in edible oil using IoT" in national conference on Recent Innovations in Science & Engineering held on 20th,November 2021,conference proceeding : ISBN 978-93-91535-00-1.

6. Presented and published paper on "IoT based health care monitoring system" in National conference on recent Innovations in science & Engineering held on 20th, November 2021.

**Dr. Sapna MK**

1. Presented and published paper on "Automobile black box" in National conference on Recent Innovations in science & engineering held on 20th November 2021, conference proceeding : ISBN : 978-93-91535-00-1.

2. Presented and published paper on "Ethernet Networking" in National conference on Recent Innovations in science & engineering held on 20th November 2021,conference proceeding :ISBN:978-93-91535-00-1.

3. Presented and published paper on "Smart Helmet" in National conference on Recent Innovations in science & engineering held on 20th November 2021, conference proceeding : ISBN : 978-93-91535-00-1.

**Prof. Sowndeswari S**

1. Presented paper on "An Energy competent enhanced Memetic artificial bee colony based optimization in WSN" in 3rd international conference on communication, computing and electronics systems (ICCCES'21) held on October 28 2021. This paper published in Springer series lecture notes in electrical engineering (LNEE).

2. Published paper on "A comparative study on an energy efficient clustering based on meta heuristic algorithms for WSN", IJATEE, volume 8, issue 86, January 2022.

Prof.Manjula.G.Hegde

1. Published a paper on "Enhancement in energy conserving and securing the data in wireless sensor networks - A comprehensive review" published in JETIR, ISSN UGC approved volume 08,issue 10,oct 2021.

2. Presented and published IEEE paper on "Modeling & simulation of high voltage high frequency DC-DC converter for transmitter application", ISBN 978-1-6654-2849-1, ISSN 2766-2101.

Prof. Shilpa C

1. Presented paper on "Data security techniques on cloud" in National conference on recent innovations in science & technology on 20th November 2021.

2. Published paper on "Data security techniques on cloud" in IJIRSE volume 7, issue 11, 2021, ISSN 2454-9665.

Prof.K.Nithiya

Presented and published paper on "A Novel Gesture Recognition methodology applied in automatic robots using KINECT" in (National Conference) organized by SaIT on November 20th 2021, ISBN –978-93-91535-00-1.

Prof. Abhishek D.G

1. Presented and published paper on "Ethernet Networking" in National Conference on Recent innovations in science & Engineering" held on 20th November, 2021 organized by SaIT, ISBN 978-93-01535-1.

2. Presented and published paper on "Agribot : Arduino controlled multi-purpose Farm machinery Robot for small to medium scale cultivation" in National Conference on Recent innovations in science & Engineering" held on 20th November,2021 organized by SaIT, ISBN 978-93-91535-00-1.

Achievements / Technical Activities by Faculties of ECE department:

Dr.C.V Ravishankar

1. Dr. C.V. Ravi Shankar, HOD_ECE & Vice chairman IETE-Bangalore gave a talk on "

How to start your journey in Cyber Security " conducted by leadership mastery of country EDU CSR, New Delhi, the program is attended by several faculties and students from all over India on January 30, 2022 by 4 PM .



2. In Association with Tru-IOT on "How much of IoT you are truly explored" coordinated by Dr.C.V. Ravi Shankar, HOD, ECE Dept, Vice chairman of IETE given speech and program is attended by research scholars involved in IoT, Educational experts incorporating the complete IoT solution from the makers of IoT associated with Wavelet, India at SaIT, on January 11th, 2022 by 6 - 7.30 PM.

3. Vidya Sanskar Institute of science ,commerce and management, Banglore in association with NEP Taskforce organized webinar on "Best practices for effective implementation of NEP-2020".Dr.C.V. Ravi Shankar, HOD,

ECE Dept , Vice chairman of IETE, given speech and program is attended by several faculties from various universities on January 29th, 2022 by 12 PM .
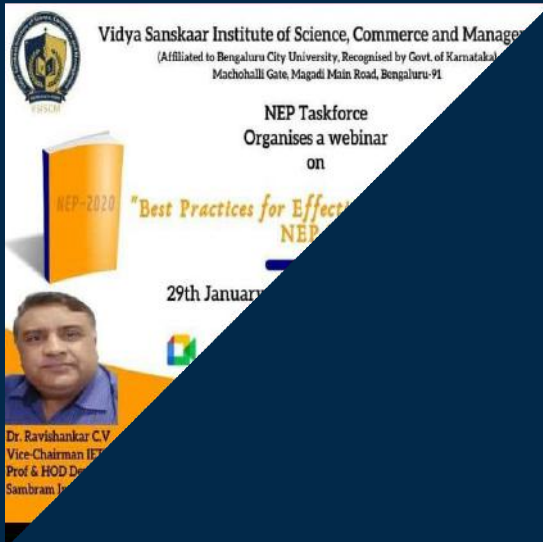






4. In Association with **IEEE - SaIT Student Branch** Dr. C.V. Ravi Shankar, HOD, ECE Dept, Vice chairman of IETE and principal-in-charge conducted hands on session on cyber crime and ethical hacking and gave talk on cyber and Resource person Samarth Bhaskar Bhat, technical director, Reverse Engineering Infosec Ltd. Held at MCA seminar hall and at EDUSAT room, the program is attended by several faculties and students from SaIT, on January 3, 2022 by 11 -3.30 PM.

5. Dr. Ravishankar.C.V. , HOD_ECE & Vice chairman IETE-Bangalore, Coordinated and hosted Students Day celebration at IETE-Bangalore on 5-2-2022.

**Dr. Ravishankar.C.V. , HOD_ECE & Vice chairman IETE-Bangalore, Coordinated and hosted Students Day celebration at IETE-Bangalore on 5-2-2022**

5. Dr.Ravishankar.C.V. HOD-ECE & Vice chairman IETE-Bangalore attended and gave talk on the occasion of IETE student chapter inauguration at BIT – Bangalore on 7-2-2022.

**Dr.Ravishankar.C.V. HOD-ECE & Vice chairman IETE-Bangalore participated in student chapter inauguration at BIT –Bangalore on 7-2-2022.**

**Prof. Sowndeswari S**

1. Reviewer for "International conference on mobile networks and wireless communications (ICMNWC'2021)" held on December 3rd and 4th 2021.

2. Jury member in JIGNYASA – 2021 state level competition organized by AGASTYA international foundation on 7th and 8th December 2021.

3. Coordinated 1 week student induction program (SIP-2022) for first year students in January 2022 and also given a talk on "About ECE department and its various forums".

4. Completed 4 months certified course on "signals and systems part I" on 22nd November 2021 from Indian Institute of Technology, Bombay.

5. Pioneered pre final and final year ECE students for defence public exhibition by ministry of defence 2021 at ALISDA, Banglore & BEL Banglore on 17th -18th December 2021.

6.Coordinated National level students project competition "ANVESHANA 2022" semi finals conducted on 27th January 2021 by ECE department, SaIT.

7. Coordinated the National conference held on 20th November 2021, Organized by Sambhram institute of technology as RISE 2021.

**Dr.Sapna MK**

Achieved patent on "Greenhouse agriculture in an IOT and ML driven controlled environment" by January 21st 2022 in association with Ministry of commerce and industry, Government of India, application No: 202241001146.

Dr. Shreesha Kalkoor M

**INDIAN PATENT PUBLISHED:**

Mudradi, Dr Shreesha Kalkoor. 2022. SPEECH DATA PROTECTION METHOD FOR VOICE BASED SOCIAL MEDIA PLATFORMS USING MACHINE LEARNING. 202241000098 filed January, 03, 2022 and issued January, 21, 2022.

**Prof. Manjula. G. Hegde**

1. Coordinated National level students project competition "ANVESHANA 2022" semi-finals conducted on 27th January 2021 by ECE department, SaIT.

2. Coordinated 1 week student Induction program (SIP-2022) for first year students in January 2022 and also given a talk about UHV on 5/2/2022.

3. Jury in JIGNYASA – 2021 state level competition organized by AGASTYA international foundation on 7th and 8th December 2021.

4. Coordinated the National conference held on 20th November 2021, organized by Sambhram institute of technology as RISE 2021.

**Prof. Shilpa C**

1. Pioneered pre final and final year ECE students for Defence public exhibition by ministry of defence 2021 at ALISDA, Banglore & BEL, and Banglore on 17th - 18th December 2021.

2. Attended FDP on "Virtual branch counsellors training" on 19th february 2022 organized by IEEE Banglore.

3. Coordinated IEEE TEMS YEEP project competition for final ECE students by December 2021

4. Coordinated 1 week student induction program and given a talk on "Technical forums in ECE" on January 2022.

5. Coordinated the National conference held on 20th November 2021, organized by Sambhram institute of technology as RISE 2021.

**Prof. K. Nithiya**

Undergone Fifteen days online training and completed course on "How to create professional website Blogging, Word press" conducted by Tech group of being commerce from January 20-23, 2022.

## IEEE Activities / Projects Related Events

1. IEEE – SIGHT Week celebrated by students and

   Faculties of ECE department at SaIT on 5-12- 2021.

2. Students of Final year ECE named Rakshitha N,  Ramya P, Pooja KS, Sahana M won **in IEEE project presentation competition** for the project title "**MILK ADULTERATION**" Guided by Prof.Shilpa.C for the Event held on December 4th 2021 and students who won were rewarded with Cash Prize.

3.The project Entitled "**SMART HELMET USING IOT** " Guided by Prof.Sapna presented by G Leons, Anilkumar yadav, Alsten geo Anand , R.Sandesh IEEE **project presentation competition** held on December 4th 2021 and rewarded with Cash Prize.

**Students Won prize for project on SMART HELMET USING IOT in IEEE project competition on December 04, 2021.**



**Students Won prize for project on "MILK ADULTERATION" USING IOT in IEEE project competition On December 04, 2021.**

4. Final ECE students presented their projects by participating in KSCST Proposal on January 1st, 2022.

**TECHNICAL EVENTS CONDUCTED BY ECE DEPARTMENT**



**Information Brochure of National conference RISE-2021**

The National conference held on 20th November 2021, organized by Sambhram institute of technology "RISE 2021" supported by SaIT Students chapters of IEEE, IETE & ISTE and all Faculty members of departments ECE, CSE, CIVIL, MECHANICAL so on and final year Students of various departments presented papers in numerous domains.



INAUGURATION OF NATIONAL CONFERENCE ON NOVEMBER 20, 2021.

**ECE faculties at Inauguration Event "RISE 2021"**

The Online Induction program for first year B.E

Students scheduled in our Sambhram Institute of

Technology from December 23rd - 25th, 2021.



**"RISE" INAUGURATION ON NOVEMBER 20-2021**

**INDUSTRY VISIT – ECE 2021**

1. Students of ECE department and faculties underwent industry visit to

Defence public exhibition conducted by Directorate general of Aeronautical Quality Assurance (DGAQA) in commemoration of 75 years of independence themed "AZADI KA AMRIT MAHOTSAV" organized by Department of Defence production, Ministry of Defence held at Yeshwanthpur, Banglore from $13^{th}$ -$19^{th}$ December 2021. Students explored the Resources in ALISDA with thirst of seeking and enhanced their knowledge.

2. Students of ECE department and faculties underwent Industry visit to Bharat Electronic Limited (BEL), Guided by the Co-ordinators Dr.Shreesha Kalkoor, Dr.Sapna MK, Mr.Bharath S, Mrs. S. Sowndeswari on 18-12-2021, and Banglore.



**AT INDUSTRY VISIT TO MINISTRY OF DEFENCE (ALISDA) ON 19-12-2021, BANGLORE**

## CULTURAL EVENTS

### Kannada Rajyotsava

Students of ECE participated in Solo Dance, Group dance, singing competition; Quiz in the cultural events takes place at Sambhram institute of technology on 27TH November 2021.





ECE Students in Cultural Event at SaIT on 27th November 2021.

## Students Participation and Achievements

1. Final year Students participated in National conference on "RECENT INNOVATIONS IN SCIENCE & ENGINEERING(RISE 2021)"held on 20th November 2021, organized by Sambhram institute of technology as RISE 2021 **supported by SaIT Student chapters of IEEE , IETE & ISTE.**

**Participation of Final year students named Shashi Kumar, Sandesh, Rakesh in National conference (RISE 2021).**

1. Final year students attended three days online webinar on "Latest VTU VLSI lab Experiments" from October 28th 2021 conducted in association with Entuple Technologies, Banglore.

3. Final year students attended three days online

webinar on "VLSI design based on Analog and Digital flow held from November 4, 2021, conducted in association with Entuple Technologies, Banglore.

4. Final year students attended online virtual sessions on Global Technology conference conducted by NVIDIA GTC on November 8, 2021.This unique event is stuffed up with enhanced skills over AI and its Significance.

5. Final year students attended International online webinar entitled "Email Marketing" organized by IIDE Digital marketing, Banglore on December 4, 2021.

6. Final year students attended offline webinar on Python programming conducted by department of computer science and engineering Sambhram institute of technology on December 22, 2021.

7. ECE students attended online webinar on "How to get Internships& 75% scholarships on Microsoft certification Tracks"organized by Quantum learning on January 7, 2022.

8. ECE students attended online webinar on "Ethical hacking" organized by Quantum learning on January 8, 2022.

9. Final year students attended online webinar on "How to start your journey in Cyber security" coordinated by speaker Dr.Ravishankar, department of ECE sponsored by Country Edu CSR. Dr.C.V.Ravishankar, HOD, ECE Dept hosted the program Different career path and job roles were discussed in this webinar.

10. Final year students attended three days online webinar and training on "Analog VLSI and Digital IC design" based on industry perspective VLSI lab course as per the latest curriculum of VTU, Belagavi Conducted by Entuple Technologies, Banglore on October 21, 2021.

11.Students attended Live Webinar Hosted by Department of Mechatronics , Acharya Institute of Technology, Topic "Application of IOT in Automation & Industry ", on 22-12-2021.

12.Telecom Regulatory Authority of India, Banglore conducted webinar on "Satellite communication- Emerging Trends & challenges" on December 2,2021.This

webinar hosted by Shri.T.Abbas advisor of TRAI and resource person Shri.Rahul Vatts, given a talk on satellite communication and Mr.K.S Madanpuri CGM NE BSNL points to speech over deployment and operations of satellite .

13. Students attended three days online webinar conducted in association with Blocks EDU Role On "Block chain in the Indian market" by December 20 to 23, 2021 coordinated by Dr. C.V Ravishankar, Department of ECE, hosted by Dr. Justin. pensylvania state university.

## FDP/Webinars Attended /Organized by Faculty members:

ECE department in association with AICTU-VTU

Conducted FDP on "**Universal Human Values**" coordinated by Dr.K Gayathri Reddy, special officer UHV cell, VTU regional office, Banglore and Resource person Dr.Neeta Mahadev, BNM institute, Banglore. ECE department faculties **Prof. S. Sowndeswari, Prof. Manjula Hedge, Prof.V.Geetha, Dr. Sapna MK Prof. Shilpa C, Prof.Abhishek D.G, Prof.Bharath S, Dr.ShreeshaKalkoor** attended this FDP from March 2- 6, 2022.

**Prof. Sowndeswari S**

1. ECE department in association with Student Chapters of ISTE, IETE, IEEE & EWB and Institute Innovation council -IQAC cell SaIT

together organized webinar on "Art of innovation & invention" resource person Mr. Amit Kumar on 5th February 2022 coordinated by Prof.Sowndeswari S.

2. Attended online FDP on "Introduction to Python programming and its applications" conducted in association with NERIST, Arunachal Pradesh held from 21-26 February 2022.



**Dr. Sapna MK**

1. In Association with one week student induction program (SIP-2022) for first year students in January 2022, given a talk on "Recent Trends in electrical Engineering".

2. Pioneered pre final and final year ECE students for Defence public exhibition by ministry of defence 2021 at

ALISDA, held at Banglore on 17th -18th December 2021.

3. Attended online FDP on "Introduction to Python programming and its applications" conducted in association with NERIST, Arunachal Pradesh held from 21-26 February 2022.

**Prof. Manjula Hegde**

1. Undergone six weeks online training on "Data science and basics of machine learning" from December 2021 to January 2022 sponsored by Internshala.

2. Undergone four week online training on internship & job preparation held from January-22 to February-22 in association with Internshala.

3. Attended online FDP on "Introduction to Python programming and its applications" conducted in association with NERIST, Arunachal Pradesh held from 21-26 February 2022.

**Prof. Shilpa C**

1. Attended FDP on "Virtual branch counsellors training" on 19TH FEB 2022 organized by IEEE Banglore.

2. Coordinated IEEE TEMS YEEP project competition for final ECE students by December 2021.

3. Coordinated 1 week student induction

Programand given a talk on "Technical forums in ECE" on January 2022.

4. Coordinated the National conference held on 20th November 2021, organized by Sambhram institute of technology as RISE 2021.

5. Attended online FDP on "Introduction to Python programming and its applications" conducted in association with NERIST, Arunachal Pradesh held from 21-26 February 2022.

**Prof. K. Nithiya**

1. Attended online FDP on "Introduction to Python programming and its applications" conducted in association with NERIST, Arunachal Pradesh held from 21-26 February 2022.

2. Undergone 2 days online training on "Software Testing" conducted by Nezam academy by resource person Tarek Roshdy on 27th February, 2022.

**Prof. V. Geetha**

Attended online FDP on "Introduction to Python programming and its applications" conducted in association with NERIST, Arunachal Pradesh held from 21-26 February 2022.

**Prof. Khamer Unnisa**

Attended online FDP on "Introduction to Python programming and its applications" conducted in association

with NERIST, Arunachal Pradesh held from 21-26 February 2022

**Prof. Bharath S**

Attended online FDP on "UHV" coordinated by Dr. K Gayathri Reddy, Special officer UHV cell, VTU regional office, Banglore and Resource person Dr.Neeta Mahadev, BNM institute,Banglore.

**PLACEMENT DETAILS**

It's our immense pleasure to announce that Sambhram Institute of Technology is successful in placing students effectively. Placement activities of ECE department are carried out by Prof. Khamer Unnisa.

1. ECE Final year student **Sharath R.Puthran and**

**Milind Kumar Mishra** got placed in TCS with 3.36 LPA



**Sharath Puthran Placed in TCS**



**Milind Kumar Mishra Placed in TCS**

2. **Hemanth K Gowda** from final year ECE student got placed in **WIPRO** with annual package of 3.5 LPA.



**Hemanth K Gowda placed in WIPRO.**

3. **Shubam Kumar and Soujanya Kalal** from final year ECE got placed in **SASKEN** with annual package of 3.7 LPA**.**



**Shubam Kumar placed in SASKEN Technologies**
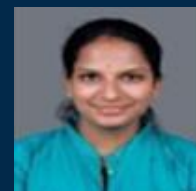


**Sowjanya Kalal placed in SASKEN Technologies**

4. **Shashi Kumar**, Final year ECE student placed in Quest Global on 18th December 2021, with annual package of 3.5 LPA.



**Shashi Kumar** placed in Quest Global

5. **Sukanya Kalal** Final year ECE

student placed in

Quest Global on 18th December

2021, with

annual package of 3.5 LPA.



**Sukanya Kalal** placed at Quest

Global.

**TOP RECRUITERS**



- Wipro
- Infosys
- Capgemini
- 6 D Technologies
- TCS
- SASKEN
- Global Quest

HEXAWARE and Nxtwave are

the Top Recruiters.

# INFORMATION SCIENCE AND ENGINEERING

## MoU Between SaIT AND TPCRA

The COE Mou between SaIT and India Block chain Alliance IBA/TPCRA World and Dragon Chain USA on 27/10/2021

The IBA/TCPRA World and Sambhram Institute of Technology Block Chain Centre of Excellence started in the year 2021. The CoE is a joint initiative between IBA/TCPRA World and Sambhram Institute of Technology Bengaluru, to set up an environment that would empower young minds through knowledge and training for enhancing employability, research and innovation in emerging field of Block Chain Technology

1) Nodal Office to be established in SaIT association with FTI Newyork
2) Registration of 50 is mandatory
3) FDP program on awareness of BC.

## Webinar Attended 2021-22.

1) Dr Latha P H has participated in the workshop titled "MUltilingual and Code-Switching ASR Challenges for Low Resource Indian Languages (MUCS) 2021" held virtually on 12-13 August 2021.
2) Dr. Latha P H from Sambhram Institute of Technology, has participated in the workshop "Embedded Systems - An Application Driven Approach" organized by the All India Council for Technical Education (AICTE), ATALAcademy,STMicroelectronics and Arm Education, from August 25 th - 27th 2021.

3) RPA attended webinar on 4/10/21.





**Inauguration Function**

4) "How to apply for grants" from AICTE ON 21/12/21.
5) Attended Faculty Development Program with certification on "Presentation Skills"(Online Live 3) 3) FDP conducted by ICT Academy 27 Dec 2021 to 31 Dec 2021.

The College Organised a One Day FDP on "Industry and government usecases in blockchain technology and its emerging applications" on 29 -11 - 2021 Resource Person, Mr. Rajiv Bordoloi Director General, TPCRA.

## Workshop Conducted

### Webinar On DataStructure

#### Threaded Binary Tree.

"Threaded binary trees" to III semester 'B' section students by Prof Swetha from Dept of ISE R V college of engineering on 13/1/2022.

Title of the WORKSHOP: "CYBER CRIME AND ETHICAL HACKING WITH HANDSON" In Association With: ISTE. IEEE student Chapter Resource Persons Mr Samarth Bhat, Director Reverse Engineering InfoSe on 3rd Jan 2022 1st Session: 80 students of 5th semester CS and IS attended.,2nd session 5thSemester 50 students of EC, ME, CV attended.

seminar on cybercrime and ethical hacking with hands-on"

## Membership with ICT Academy

Sambharam Institute of technology is a now a proud member of ICT Academy.



### Placement Details
- **TOP RECRUITERS:** TCS, WIPRO, EXPLEO GROUPS

**NUMBER OF STUDENTS GOT PLACED:** A proud moment for ISE department to mention the names of the students who got placed in top companies. The details of the students and the company which they got placed is as follows:

1) Mohammed Aatif-Salim-TCS-3.36LPA,

2) KarthikAdiga-TCS-3.36LPA,

3) Mohammed Aatif Salim-Wipro3.5LPA,

4) Dhruvil-Sorathia-ExpleoGroups3.0LPA,

5) Poornima-Hegde-ExpleoGroups3.LPA.

# MECHANICAL ENGINEERING

**Guest lectures organized for students**

1). Organized a One-day virtual webinar on "A system approach to waste management and energy sustainability" on 20th January 2022 coordinated by Mrs. Padmini B V,&Mr. Pradeep L C Assistant Professor, Dept. of ME. Resource Person Dr. Jyothilakshmi R Associate professor,Ramaiah Institute of Technology.
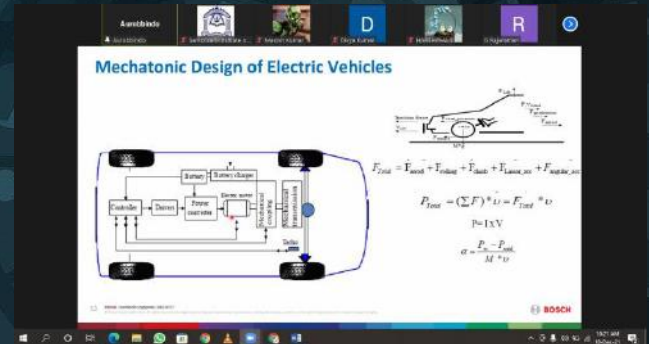




2). Organized a One-day virtual webinar on "Current trends in industry 4.0 and job skills for tomorrow" on 23rdDecember 2021 coordinated by Mrs. Padmini B V,&Mr. Pradeep L C Assistant Professor, Dept. of ME. Resource Person Mohammaad Azhar Hussain, Chief Technical Officer, Indo skill.

3). Organized a One-day virtual webinar on "Current trends and future opportunities in automotive insustries" on 18thJanuary 2022 coordinated by Mrs. Padmini B V,&Mr. Pradeep L C Assistant Professor, Dept. of ME. Resource Person Autobindo L, Chief technical officer, Electric vehicle division, Robert Bosch, Bengaluru.

4) Organized a One-day virtual webinar on "Systematic failure analysis for the industry- Principles and case studies" on 14thDecember 2021 coordinated by Mrs. Padmini B V,&Mr. Pradeep L C Assistant Professor, Dept. of ME. Resource Person Mr. V. Sudarshan, Vice president R&D, M/S Wheels India limited (TVS) Hosur.
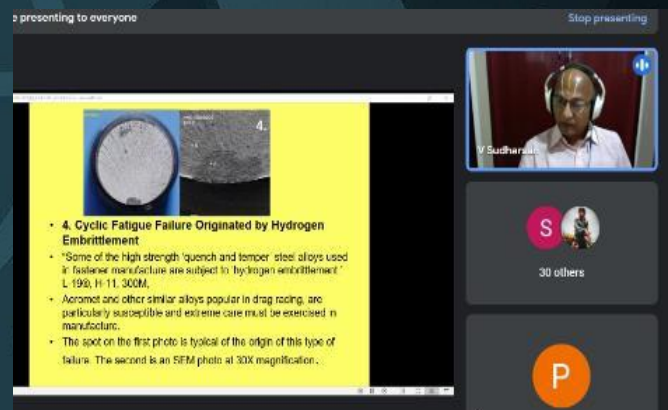


5)Organized a One-day virtual webinar on "Skills required to face interviews" on 10thDecember 2021, coordinated by Mrs.Padmini B V, &Mr. Pradeep L C Assistant Professor, Dept. of ME. Resource Person Mr. Rajanish Kumar P, Managing partner, Recruitment services.

6) The induction program was organized in Sambhram institute of technology. The topic which was addressed by Captain Mahesh Emmi was "Opportunities in Indian Air Force for engineers" The talk was delivered on 31st December 2021.
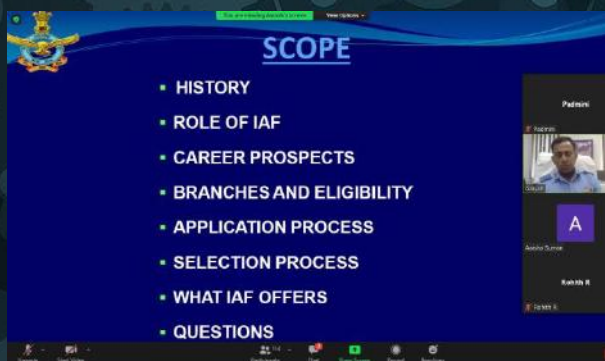


8) The induction program was organized in Sambhram institute of technology.The talk was delivered by Dr. R Chandrashekhar on " A discourse with SaIT fresher's". The talk was delivered on 31st December 2021.



7) The Sambhram institute of technology proposed to start an innovative club in the campus. Dr. Chandrashekar, Dr. Sampathkumaran& Dr. R Seetharamaiah took initiative in forming a club in the campus. The club members are Dr. Seetharamu (Ex Director CPRI), Dr. V Shubha, Dr. Sailaja Bhattacharya (TERI), Mr. Prakash Hegde, Mr.AnantBindagi (Spraymet) they are from various engineering sciences.

**Industry visit**

6) An industry visit was arranged for 3rd, 5th & 7th semester students to ESCO Couplings & transmissions private limited, Bengaluru On 11th December 2021.



**Workshop/FDP/Tech Talk/Webinar Attended by faculty/students**

1)Padmini. B.V attended a webinar on "Best practices for effective implementation of NEP-2020" held on 29.01.2022 and organized by NEP task force committee of VSISCM.

2)Padmini.B.V participated in the webinar "Introduction and evolution of industrial Robotics organized by the department of Mechanical Engineering KSIT in association by "The Institute of Indian Foundry men (IIF) held on 30.12.2021.

3)Mrs. Padmini.B.V participated in the webinar on " Thermal Spray technology-Working principles, types and principles" organized by DME JSS Academy of Technical Education in association with IIF Bangalore chapter held on 29 Jan 2022.

4) Mr. Pradeep was selected for Industry Academia collaboration for Skill development with Bosch India Ltd...He is attending all training programs conducted by Bosch trainer.
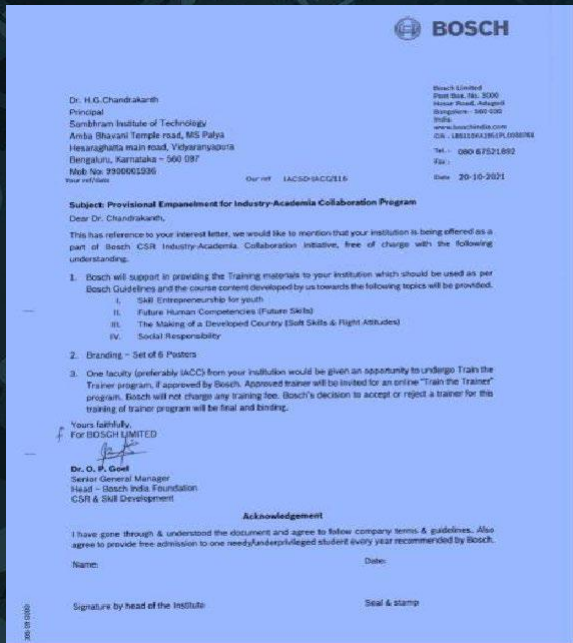
## SPORTS

9) Intracollege activity conducted by SAMS &SaITjointly in the month of January 2022. Mr. Pavan G M student from Mechanical 5$^{th}$ semester has won first prize in English elocution & 3$^{rd}$ prize in English essay writing.

10) Dr. B B Manjunath is writing a text book titled "Instrumentation & control" for AICTE

### Paper publication

A paper was published in Taylor & Francis journal by **Dr. Sampathkumaran** title" **Tribological behaviour of silk fibre reinforced HDPE nano composites**.

# CIVIL ENGINEERING

**I. Conference/workshops/seminars attended by Faculty:**

Dr. U.B.Mallikarjuna:

1. Attended International Fossil Day-2021 organized by Palaentological Society of India on 8th October, 2021. Prof. Michel Benton (UK) delivered the talk on Dinosaurs
2. Attended BOE meeting at UVCE (Bangalore University) on 17th December, 2021
3. Attended Edu Expo @ CET premises between 07.10.2021-12.10.2021

Vasantha, D.

1. Attended 5 day webinar on scope and futuristic opportunities in Civil Engineering by CED., RNSIT, Bengaluru between 27.09.2021-01.10.2021
2. Webinar on Durability and Design of Concrete Structures attended on 13.11.2021, organized by Indian Concrete Institution, Bengaluru chapter
3. Webinar on Understanding internal curing of concrete attended on 26.th & 27th Nov., 2021, organized by Indian Concrete Institution, Bengaluru chapter
4. Participated in panel discussion on Youth and Sustainable Development on 12.01.2022 organized by Presidency

University, Bengaluru on the eve of National Youth Day.

Akshata A. Mulgund

1. Attended Edu Expo @ CET premises between 07.10.2021-12.10.2021
2. Attended FDP on Creative thinking organized by ICT Academy between 16.111.2021-20.11.2021
3. An over view of Teaching Techniques in Innovative and Design thinking, organized by AICTE & VTU jointly between 6-10th December, 2021
4. An over view of Teaching Techniques in Scientific Foundations of Health, organized by AICTE & VTU jointly between 20-24th December, 2021

Monica, M.S.

1. One day workshop on how to conduct the Students Induction Program (SIP) organized by AICTE on 20.09.2021
2. Attended Edu Expo @ CET premises between 07.10.2021-12.10.2021
3. Attended webinar on Digital Transformation in Structural Analysis, organized by CED., Presidency University on 11.09.2021
4. An over view of Teaching Techniques in Innovative and Design thinking, organized by

AICTE & VTU jointly between 6-10th December, 2021

5. An over view of Teaching Techniques in Scientific

6. Foundations of Health, organized by AICTE & VTU jointly between 20-24th December, 2021

Priyanka Desai.

1. Attended 5 day webinar on scope and futuristic opportunities in Civil Engineering by CED., RNSIT, Bengaluru between 27.09.2021-01.10.2021

Krishnamurthy, G.R.

1. Attended National Conference on Recent Advances in Civil Engg., organized by CED., EWIT., Bengaluru on 24th & 25th November, 2021

Shrungashree, B.C

1. Attended the webinar on Biogasification and Solid waste management, organized by the department on 20th January, 2022 @ CED, SaIT.

**II. Students participation in technical Talks/webinars/seminars:**

1. Students actively participated in the Engineers' Day celebration on 15th sept., 2021

2. 5th and 7th semester students participated in the workshop on 'Be an Entrepreneur' organized by the Dept. of Commerce and Industry, Govt. of Karnataka on 11th October, 2021 @ Palace Ground, Bengaluru

3. Students actively participated in the celebration of Kannada Rajyothsava at the college premises on 24th November, 2021 organized by SaIT

4. 5th and 7th semester Students attended a Technical talk on 'Soft skill development' delivered by Mr. P. Rajnish Kumar, RS recruitment services, Vijayanagar, Bengaluru on 18.11.2021 at CED, SaIT.

5. 5th and 7th semester Students attended Hands on training for softwares -Autocadd & Revitt organized by CADD centre, Yelahanka, Bengaluru on 4th December, 2021

6. Students attended technical talk 'Current Trends in Industry 4.0 and Job skills for Tommorrow on 23rd December, 2021 organized by CED, SaIT, talk delivered by Mohan Shamanna, CTO, Indo Skill, Bengaluru.

7. Department students attended the webinar on Cyber Crime and Ethical Hacking organized by CSE/ISE departments, SaIT on 3rd January, 2022

8. Final year students attended the technical talk on 'Career opportunities after BE' organized by CED., SaIT. On 8th January, 2021 in the department delivered by ACE Engg. Academy, Malleshwaram, Bengaluru

9.

## III. Events conducted by the Department:

1. Students and faculty celebrated Engineers day on 15th September, 2021

2. Technical talk on 'Soft skill development' delivered by Mr. P. Rajnish Kumar, RS recruitment services, Vijayanagar, Bengaluru on 18.11.2021 at CED, SaIT.
3. Department hosted one day event- Students Induction Program (AICTE) on 30th December, 2021 for 1st year students organized 3 technical talks and 2 quiz programs
4. 5th and 7th semester Students attended Hands on training for softwares -Autocadd & Revitt organized by CADD centre, Yelahanka, Bengaluru on 4th December, 2021
5. Final year students attended the technical talk on 'Career opportunities after BE' organized by CED., SaIT. On 8th January, 2021 in the department delivered by ACE Engg. Academy, Malleshwaram, Bengaluru.
6. Organized webinar on 'Biogasification and Solid Waste Management' talk delivered by Dr. Jyothi Lakshmi, CED., Ramaiah University, Bengaluru, jointly organized with Mechanical Engg department on 20th January, 2022
7. Organized technical talk 'Current Trends in Industry 4.0 and Job skills for Tommorrow on 23rd December, 2021 organized by CED, SaIT, talk delivered by Mohan Shamanna, CTO, Indo

Skill, Bengaluru. 7th and 5th semester students attended.

Department organized webinar on 'Biodegradable Waste Management using Bio gasification Process - A system approach to Waste Energy Sustainability' talk delivered by Dr. Jyothi Lakshmi, Dept. of Civil Engg., Ramaiah University, Bengaluru on 20th January, 2022.
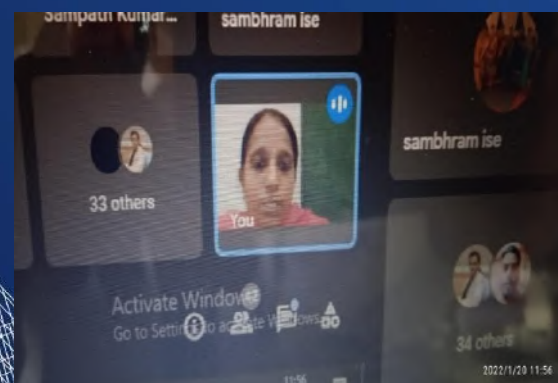




Department organized technical talk on 'Current trends in industry 4.0 and Job skills for tomorrow' delivered by Mr. Mohan shamanna, CTO, Indo skills, Bengaluru on 23rd December, 2021

# DEPARTMENT OF CHEMISTRY

Department of Physics, Chemistry and maths conducted 15 days Students induction programee for first year's students for the academic year 2021-2022. There were 22 special programme conducted by eminent resource persons from varied field including in-house resource persons. There were many technical, cultural and others conducted.

**Mr. Manjunatha N K,** a research student of **Dr M T Swamy** defended his final Ph.D viva voce on the topic *"Crystal and Molecular structure Studies of Pharmaceutical Importance and Its Salts, Chalcones and Allied Compounds"*

He has been awarded Ph.d degree in 21st annual Convocation dated 10.03.2022.

Chemistry department Paper publications:

N.K Manjunatha , Mahesha , B.H. Gayathri , N.K. Lokanath , **M.T. Swamy** , S. Chandra Nayaka , B.P. Siddaraju , N. Ragini ,Mohammed AL-Ghorbani , B.R. Kannika , S. Madan Kumar, *A solid state analysis of Metformin Picrate salt,* Chemical Data Collections, (ELSEVIER), 30, [2020] 100577,

S. Swarna · **M. T. Swamy** · T. R. Divakara · K. N. Krishnamurthy · S. Shashidhar *Experimental assessment of ternary fuel blends of diesel, hybrid biodiesel and alcohol in naturally aspirated CI engine*, International Journal of Environmental Science and Technology [2021] https://doi.org/10.1007/s13762-021-03586-7

S. Swarna , **M.T. Swamy ,** T.R. Divakara , K.N. krishnamurthy , S. Shashidhar & H.V. srikanth, *$K_2CO_3$ in $NH_4OH$ as an Effective Catalyst Mixture for the Transesterification of High Acid Value Mahua Oil* , Asian Journal of Chemistry;

*Vol. 33, No. 11 (2021), 2807-2812* https://doi.org/10.14233/ajchem.2021.23395

1.  Rajasekhar Chokkareddy, **Suvardhan Kanchi\*,** Inamuddin, Tariq A Altalhi. Smart Nanodevices for Point-of-Care Applications." *Current Analytical Chemistry*, 17 (2021): 1-15. (Inpress) [SCI & ISI, **IF_{2020}: 1.892**] https://doi.org/10.2174/1573411017999210120180646.

2.  Rajasekhar Chokkareddy, **Suvardhan Kanchi\*,** Inamuddin. "A Mini Review on Surface Enhanced Raman Scattering based Nanoclusters for Sensing and Imaging Applications." *Current Analytical Chemistry,* 17 (2021): 1-10. (Inpress) [SCI & ISI, **IF_{2020}: 1.892]** https://doi.org/10.2174/1573411017999210101162831.

3.  Fegade, Umesh, Sachin Kolate, Rajesh Dhake, Tariq Altalhi, and **Suvardhan Kanchi**. "Adsorption of Congo Red on Pb doped FexOy: experimental study and theoretical modeling via double-layer statistical physics models." *Water Science and Technology* 83, no. 7 (2021): 1714-1727. [SCI & ISI, **IF_{2019}: 1.915**] https://doi:10.2166/wst.2021.077.

4.  Fegade, Umesh, Inamuddin, Tariq Altalhi, Mohd Imran Ahamed, and **Suvardhan Kanchi**. "Effective adsorption of Fuchsine dye on FeZnOAC: kinetic, isotherm, double-layer modelling and

5. reusability study." *International Journal of Environmental Analytical Chemistry* (2021): 1-17. (Inpress) [SCI & ISI, **IF$_{2020}$: 2.826**] https://doi.org/10.1080/03067319.2021.1917559.

6. Fegade, Umesh, Ganesh Jethave, Sanjay Attarde, Sachin Kolate, Inamuddin, Tariq Altalhi, and **Suvardhan Kanchi**. "Statistical Physics Model of EBT Adsorption on Pb (II) doped Zinc Oxide Nanoparticles: Kinetics, Isotherm and Reuse Study." *International Journal of Environmental Analytical Chemistry* (2021): 1-15. (Inpress) [SCI & ISI, **IF$_{2020}$: 2.826**] https://doi.org/10.1080/03067319.2021.1907358.

7. Fegade, Umesh, Sachin Kolate, Kannan Gokulakrishnan, Chennan Ramalingan, Tariq Altalhi, and **Suvardhan Kanchi**. "A Selective Ratiometric Receptor 2-((E)-(3-(prop-1-en-2-yl) phenylimino) methyl)-4-nitrophenol for the Detection of $Cu^{2+}$ ions Supported By DFT Studies." *Journal of Fluorescence* 31, no. 3 (2021): 625-634. [SCI & ISI, **IF$_{2019}$: 2.217**] https://doi.org/10. 1007/s10895-021-02697-1.

8. Gorle, Govinda, Ayyappa Bathinapatla, **Suvardhan Kanchi**, Yong Chien Ling, and Mashallah Rezakazemi. "Low dimensional $B_{12}Se_3$ NPs/reduced graphene oxide nanocomposite for simultaneous detection of L-Dopa and acetaminophen in presence of ascorbic acid in biological samples

and pharmaceuticals." *Journal of Nanostructure in Chemistry* (2021): 1-16. (Inpress) [SCI & ISI, **IF$_{2020}$: 6.391**] https://doi.org/10.1007/s40097-021-00428-3.

9. Patil, Nilima, R. B. Dhake, Umesh Fegade, Kannan Gokulakrishnan, Chennan Ramalingan, Inamuddin, Tariq Altalhi, and **Suvardhan Kanchi**. "N'-(4-(diethylamino)-2-hydroxybenzylidene) isonicotinohydrazide based chemosensor for nanomolar detection of Ni (II) ion." *International Journal of Environmental Analytical Chemistry* (2021): 1-17. (Inpress [SCI & ISI, **IF$_{2020}$: 2.826**] https://doi.org/10.1080/03067319.2021.1967339.

10. Jethave, Ganesh, Sanjay Attarde, Umesh Fegade, Tariq Altalhi, **Suvardhan Kanchi**, Sopan Ingle, and Rajesh Dhake. "Statistical modeling and interpretation of Sono-assisted adsorption mechanism of Crystal Violet dye on FeTiPbO Nanocomposite." *Journal of Molecular Liquids* 340 (2021): 116878. [SCI & ISI, **IF$_{2020}$: 6.165**] https://doi.org/10.1016/j.molliq.2021.116878.

***Book Chapters: -***

1. Rajasekhar Chokkareddy, **Suvardhan Kanchi**, Surendra Thakur, Venkatasubba Naidu Nuthalapati, Chapter: 7, 'Smartphone Based Biosensors on Lateral Flow Assay Coupled to SERS: Point-of-Care

Applications", Book: "Biosensing and Diagnostic Technique for

2. Healthcare Applications", 2021, 191-212, Eds: Swati Jain and Sruti Chattopadhyay, Bentham Science Publishers.

*Books: -*

1. Anand, Krishnan, Muthupandian Saravanan, Balakumar Chandrasekaran, **Suvardhan Kanchi**, Sarojini Jeeva Panchu, and Quan-Sheng Chen, eds. Handbook on Nanobiomaterials for Therapeutics and Diagnostic Applications. Elsevier, 2021. ISBN: 978-0-12-821013-0.

*FDP:-*

1. Resource Person for a "Role of Nanotechnology in Communication Systems" held by R & D Department, Institute of Aeronautical Engineering in association with Electronics & ICT Academy, National Institute of Technology, Warangal from 2 – 14 November 2021, Dundigal, Hyderabad, India.

*Conference: -*

1. International Advisory Committee and Moderator, The 6th International CBRN Safety and Security conference under patronage of The Ministry of Higher Education & Scientific Research, University of Babylon from 14-16 November 2021, Babylon, Hilla, IRAQ.

# DEPARTMENT OF MBA

**News Letter Details for the period 1<sup>st</sup> August 2021 to 31<sup>st</sup> January 2022**

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| 7.8.2021 | Guest Talk on "Enhancing the Quality of Internship Opportunities." By Dr. Ajatha Shatru Samal, HOD, Department of MBA, Sri. Venkateshwara College of Engineering, New Airport Road, Bangalore. |
| 26.11.2021 | Industrial visit to Mysore (1.  KSIC industry and 2. Hindustan Springs Ltd) |
| 4.12.2021 | Guest talk on "SHARE MARKET AND FINANCIAL SYSTEM with special reference to ONLINE TRADING" by **Mr. Sridhar**, Ex-Director and CEO, Srinavasa Apparels Pvt Ltd. |
| 21.12.2021 | Guest talk by International Speaker Dr. Shalini Singh, Professor, DUT, Durban on **"Quality and Quality Management System"**. |
| 22.12.2021 | Industrial visit to Akshaya Pathra Foundation, Kanakapura road, Bangalore. |