

# **International Conference on Frontiers in Engineering, Management and Science (ICFEMS -2022)**

**Date:27<sup>th</sup> & 28<sup>th</sup> April, 2022**

Organized by  
A P S college of Engineering, Karnataka.  
In Association with  
Institute for Engineering Research and Publication (IFERP).

# **CONFERENCE REPORT**

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## 1. Event Summary

**Conference Name:** International Conference on Frontiers in Engineering, Management and Science (ICFEMS -2022)

**Date:** 27<sup>th</sup> & 28<sup>th</sup> April, 2022

**Mode/Place :** Virtual Conference  
**No of Delegates:** 75 Delegates for the conference

**Conference Theme :** Bringing Management, Economics and Business technology research areas synchronically on an indivisible platform.

### 1.1 OVERVIEW

2<sup>nd</sup> International Conference on Science Technology and Management (ICSTM-22) which is scheduled on the 24<sup>th</sup> February 2022 as a Virtual Conference organized by Institute for Engineering Research and Publication (IFERP)

Participating to this conference represents a way of inter-personal and inter-institutional communication based on research themes specific to the modern trends of the Science, Engineering, Social Science and education domain, but also to the connection domains, having implications focused on the improvement of the qualitative level of the academic environment reflected in the direction of scientific research, science, Engineering, physical education, health and social environment.

The conference represents an occasion of international interest that is addressed to the Science, Engineering, Social Science and education, but also to the professionals from connection domains who, by their contributions may provide a multidisciplinary communication framework.

- Science
- Engineering
- Social Sciences
- Humanities and Management.

### 1.2 Conference Theme

2<sup>nd</sup> International Conference on Science Technology and Management (ICSTM-22) is themed about the distinct distinguished consequences and different hurdles in the fields of Science, Engineering, Technology and Management. This convention seeks to draw together executives, researchers, scholars, and academics in all areas of economics, business management, social sciences and humanities, to provide a global platform for the distribution of significant investigative results, distinguished approaches, and developmental applicability that focus on both modern methods and innovative approaches.

This convention will focus on strikingly advanced conditions in the distinguished developments of Science, Engineering, Technology and Management is foreseen to attract renowned experts from these specialties as well as lesser-known domains too. Participating in this conference will support participants and attendees in contemplating their proficiency to sharpen their abilities and improve their strategies using innovative approaches by interlacing with their associates and equals. Participants will likewise be allowed to connect with experts and prominent lecturers and share popular ideas and research outcomes with them

## 2. ABOUT THE CONFERENCE

International Conference on Frontiers in Engineering, Management and Science (ICFEMS - 2022) to be held from 27<sup>th</sup> & 28<sup>th</sup> April 2022 is a unique opportunity to discuss the recent developments in various areas of Technology / Engineering, Science and Management. It aims at creating technological awareness and bringing researchers, academicians, students, technocrats and scientists in a common platform. The research works / proposed approaches are evaluated with experts and guided towards improvisation. All the accepted papers will be published during the conference proceedings. It will be recommended for journal publications with complete work carried out by authors.

Conference aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of management, economics, education, engineering & Technology towards sustainable development.

Convene the world's experts to advance knowledge about innovative technologies and present new research findings and promote and enhance global scientific and community collaborations in synergy with other professional associations.

## 3.CONFERENCE SCOPE

ICFEMS-22 topics include, but are not limited to, the following research and development areas/fields.

- ✦ Civil Engineering
- ✦ Data Mining and Data Engineering
- ✦ Applied Sciences
- ✦ Environmental Social Science
- ✦ Entrepreneurships
- ✦ Computers & Information Technology
- ✦ Electronics & Electrical Engineering
- ✦ Mechanical Engineering
- ✦ Communication Engineering
- ✦ Management
- ✦ Humanities, Social Sciences and Research

As a result, many Keynote, Tutorial and Technical Sessions have been prepared in accordance with conference scope to discuss the Challenges, Opportunities and Problems of Application in various fields.

## 4. INAUGURAL PROGRAMME

The day 1 of the conference started with welcoming all the participants, dignitaries and special guest for the conference followed by the proceedings book release and introduction of session chair for the technical sessions

### 4.1 Welcoming and Opening Ceremony

Welcoming Keynote Speakers of the International Conference on Frontiers in Engineering, Management and Science (ICFEMS -2022)

#### Keynote Speakers



**Shri. Surendra Nath IAS**

Former Secretary to Govt of India &  
Former Professor, Economic & Business Laws,  
Amity University,  
Delhi, India.



**Dr. Shrihari Prakash Honwad**

Vice Chancellor,  
Sir Padampat Singhania University Udaipur,  
Rajasthan, India



**Dr. Krishna Gadasandula**

Professor,  
Debre Tabor University, Ethiopia.



**Mr. Juan Vargas**

Associate Vice President of  
Infosys Ltd.,  
Bellevue Washington



**Mr. Manish Advani**

TEDX Speaker, Startup Advisor,  
Founder & CEOMIMO POTENTIO,  
Maharashtra

Followed by welcoming our session chair of the International Conference on Frontiers in Engineering, Management and Science (ICFEMS -2022) Contains of the 5 Sessions.

**Session chairs (DAY – 1)**

**Session – I & Session II (A)**

1. Dr. Yogesh G S - Vice-Principal & HOD, ECE Dept, EPCET, Bangalore
2. Dr. A Ram Prasad - Professor, ME Dept, Formerly Jain University Bangalore
- 3.

**Session II (B)**

4. Dr. Jagadeesh H S - Professor & HOD, ECE Dept, APSCE
5. Dr. Lakshminarasimhaiah N - Professor & HOD, Civil Dept, APSCE
6. Dr. Hareesh A - Professor & HOD, ME Dept, APSCE

**Session chairs (DAY – 2)**

**Session – I**

1. Dr. Rekha B Venkatapur - Professor & HOD, CSE Dept, KSIT, Bangalore
2. Dr. Sridhara S B - Professor & HOD, CSE Dept, APSCE

**Session – II**

3. Dr. N V Raju - Professor & HOD, Dept. of Physics, Global Academy of Technology, Bangalore
4. Dr. Kumar B I D - Professor & HOD, ISE Dept, APSCE
5. Dr. Kumara S T – HOD, Basic Science Department

## 4.2 Opening Session Proceedings.

On behalf of the organizing committee, we released the proceedings book on the conference day.



A white banner with a blue border containing the text: 'IFERP International Conference IFERP Explore' and the website 'https://icfems.com/ | info@icfems.com'.

**UPCOMING CONFERENCES**

Two conference posters are displayed side-by-side. The left poster is for 'ICACCT'22' (International Conference on Advances in Computing, Communication, and Technology) and the right poster is for 'ICSTEM-22' (International Conference on Science, Technology, Engineering, and Management).

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Four logos are shown in a row: 'ALL CONFERENCE ALERTS', 'ECA', 'Conference Alerts', and 'INTERNATIONAL CONFERENCE ALERTS'. A barcode is located at the bottom right of the page.

### 4.3 Keynote & Tutorial Speeches



#### **Shri. Surendra Nath IAS**

Former Secretary to Govt of India &  
Former Professor, Economic & Business Laws,  
Udaipur, Amity University, Delhi, India.

#### **Biography:**

A former member of the Indian Administrative Service (I.A.S.), 1968 batch. A former Secretary Justice, GOI, Advisor, Education Planning Commission GOI, Agriculture Production Commissioner MP, Chief Labour Commissioner (Central), GOI., Labour Commissioner of the state of MP, Director Urban Administration MP, Chairman MP Housing Board, member of the MP Finance Commission and a Managing Director of some public sector enterprise. An M.Phil. in Social Sciences an M.Sc. in Mathematics and a law graduate- all in the first division. Has been a Professor Economic and Business Laws at Amity University Noida since 2006, taking classes in Amity Business School and School of Engineering & Technology. Has been associated as an expert in corporate management with companies like the ONGC, GAIL, NTPC, etc for the past about ten years, and also an expert with UPSC and industry associations like ASSOCHAM, Ficci, PHD Chambers, etc on economic, business, labour laws, company law, IT law, Contract law, Intellectual Property Rights, Consumer protection, etc for the last about 15 years, He have been working as an expert mediator for resolving commercial disputes of ONGC, GAIL and NTPC.



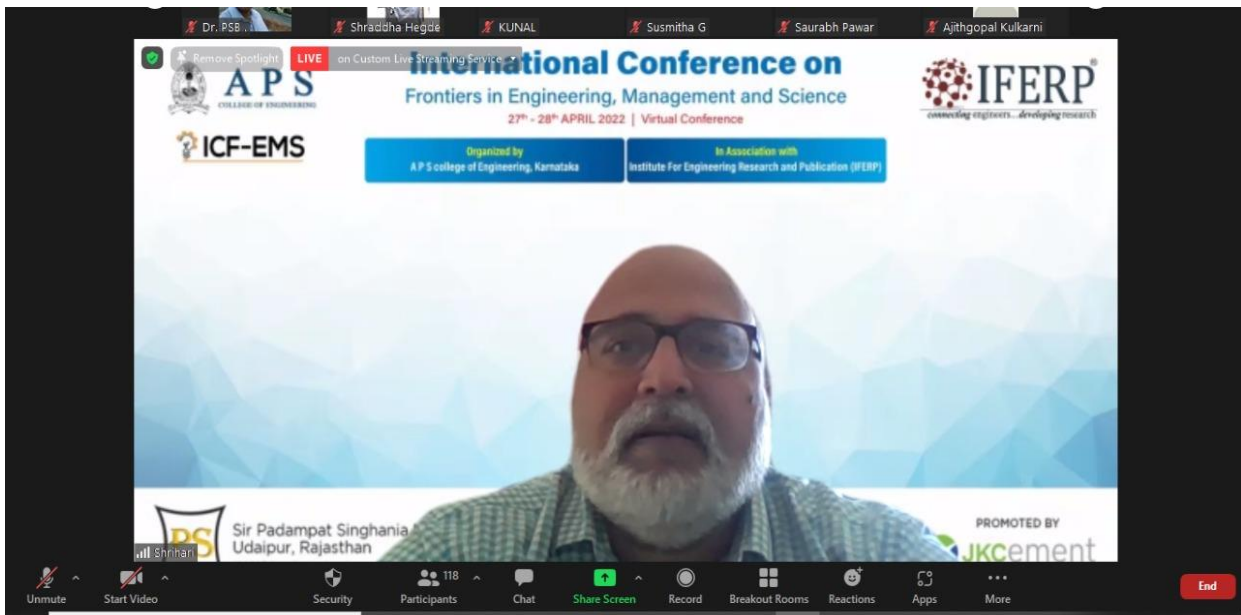


**Dr. Shrihari Prakash Honwad**

Vice Chancellor,  
Sir Padampat Singhania University  
Rajasthan, India

**Biography:**

**Dr. Shrihari Prakash Honwad** is a senior academician with administrative and governance experience, the exposure and contributions to, various functions – from teaching at one end of spectrum to managing institutions at the other – defines his career. Beginning as a teaching assistant with Industrial exposure, his career spans through a path where he became a researcher, and eventually a teacher. His progression in teaching career also saw responsibilities of Head of Department, Vice Principal, Principal of a College with 2000 students, Vice Chancellor of a university with 12000 students, etc come his way. Starting as the Dean of College of Engineering Studies, he have progressed to become the ViceChancellor (2015). He was a Chairman of Academic Council, Board of Management, and also Member Secretary to Board of Governors. At present, I am President (Vice Chancellor) at Sir Padampat Singhania University, Udaipur.





**Dr. Krishna Gadasandula**  
Professor,  
Debre Tabor University, Ethiopia

**Biography:**

Prof.(Dr.) **Krishna Gadasandula** is a highly demonstrated & renowned Professor in Business Management-(Finance) having 20 years of teaching, research & academic leadership.He has held Senior Positions in academia, trusted Finance consultant and advisor to the Executives & Management. Presently **Dr. Krishna** is a Professor in the Dept. of Accounting and Finance - College of Business and Economics, Debre Tabor University, Ethiopia (The Horn Africa). Previously, **Prof.(Dr.) Krishna** Served as a Prof. & Dean in Maldives University- also served as a Professor of Management in reputed Business School (ICBM-SBE-Hyderabad-India). **He** has received PhD in Business Management (Finance) from Osmania University-Hyderabad-India. **Prof.(Dr.) Krishna** has proven his research skills by publishing 40 research papers In National, International Journals, Chapters in Books, Conferences Proceedings, and Published 3 Text books **Prof.(Dr.) Krishna** also a Chief /Associate editor for three major internationalournals and his research areas are Banking – Auditing, Commodity market and Behavioral Finance.



**5. ORGANIZING COMMITTEE MEMBERS**

**5.1 NATIONAL ADVISORY COMMITTEE**

| <b>NAME</b>                                   | <b>University</b>  | <b>Department</b>                | <b>Country</b> |
|---|--|----------------------------------|----------------|
| <b>DR. JAYASHREE D. MALLAPUR</b>              | Basaveshwar Engineering College (A)                                    | ECE                              | India          |
| <b>Dr. BHAGYASHRI R HANJI</b>                 | Global Academy of Technology   | CSE                              | India          |
| <b>Dr. M M Bagali,</b>                        | IREU Group of Educational Institutes                                   | HR Management                    | India          |
| <b>Dr.R P Sandilyan</b>                       | Rajadhani Institute of Hotel Management & Catering Technology (RIHMCT) | Faculty of Hospitality           | India          |
| <b>Dr.J.Somasekar</b>                         | National Institute of Technology Karnataka (NITK)                      | CSE                              | India          |
| <b>Dr K.Balaji</b>                            | Surana College   | MCA                              | India          |
| <b>Dr. Karabi Sikdar</b>                      | BMS Institute of Technology & Management                               | Mathematics                      | India          |
| <b>Dr.E.N.GANESH</b>                          | VELS University  | ECE                              | India          |
| <b>Dr. BALAKRISHNAN. S</b>                    | Sri Krishna College of Engg & Technology (Autonomous)                  | CSE                              | India          |
| <b>Dr.P.JenoPaul</b>                          | Adi Shankara Institute of Engineering & Technology                     | ECE                              | India          |
| <b>Dr. Nagarani. S</b>                        | Sri Ramakrishna Institute of Technology                                | SCIENCE & HUMANITIES             | India          |
| <b>Dr.D.VINCENT HERALD WILSON</b>             | VIT-Vellore  | School of Mechanical Engineering | India          |
| <b>DR.CHANDRACHUD SIVARAMAKRISHNAN</b>        | Vels Institute of Science Technology and Advanced Studies              | Economics                        | India          |
| <b>Bennila Thangammal C</b>                   | R.M.D Engineering College  | ECE                              | India          |
| <b>Dr.H.Joseph Prabhakar Williams</b>         | Sri Indu College of Engineering and Technology, (Autonomous)           | ECE                              | India          |
| <b>T. S. KARTHIK</b>                          | Aditya College of Engineering & Technology                             | ECE                              | India          |
| <b>Dr.P.Karuppasamy</b>                       | P.S.R Engineering College  | ECE                              | India          |
| <b>Dr. Marlapalli Krishna</b>                 | Sir C.R.Reddy College of Engineering                                   | CSE                              | India          |
| <b>Dr. BAZANI SHAIK</b>                       | Ramachandra College of Engineering                                     | Mechanical Engineering           | India          |
| <b>Dr. Ch. V. Raghavendran</b>                | Aditya College of Engineering and Technology                           | Information Technology           | India          |
| <b>Dr. Susarla Venkata Ananta Rama Sastry</b> | MVGR College of Engineering  | Chemical Engineering             | India          |
| <b>Dr. M Padmaja</b>                          | VR Siddhartha Engineering College                                      | ECE                              | India          |
| <b>Abhay Shukla</b>                           | Axis Institute of Technology & Management                              | CSE                              | India          |

|                                    |  |  |       |
|------------------------------------|--|--|-------|
| <b>PAWAN KUMAR GOEL</b>            | Shri Ram Group of Colleges                             | CSE  | India |
| <b>Ranchay Bhateja</b>             | KIET GROUP OF INSTITUTIONS                             | Program Coordinator & International Collaborations | India |
| <b>Kumardatt ganjre</b>            | Bestow Edutrex International                           | Management   | India |
| <b>DUVVURI B K KAMESH</b>          | Malla Reddy Engineering College for Women              | CSE  | India |
| <b>Vijaya Baskar</b>               | Sathyabama Institute of Science and Technology         | ECE  | India |
| <b>RITESH RASTOGI</b>              | Dr. A.P.J. Abdul Kalam Technical University            | CSE  | India |
| <b>Dr. M.Mahaboob Basha</b>        | SRINIDHI institute of Science and Technology           | ECE  | India |
| <b>Vinit Kumar Sharma</b>          | Indraprastha Institute of Management and Technology,   | Mathematics  | India |
| <b>Usha Rani P</b>                 | RMD Engineering College                                | ECE  | India |
| <b>Anil Dube</b>                   | Sandip Institute of Engineering and Management, Nashik | Mechanical Engineering                             | India |
| <b>Dr. Dipak P. Patil</b>          | Sandip Institute of Engineering and Management, Nashik | Electronics & Telecommunication Engineering        | India |
| <b>PARASHURAM BARAKI</b>           | SKSVMACET  | CSE  | India |
| <b>Dr. A Ramprasad.</b>            | Jain University,                                       | Mechanical Engineering                             | India |
| <b>Dr. SUNIL KUMAR</b>             | Meerut Institute of Engineering & Technology (MIET)    | CSE  | India |
| <b>Devikala S</b>                  | Varaprasad Reddy Institute of Technology               | ECE  | India |
| <b>Dr. Parul Gupta</b>             | Global Institute of Technology & Management            | Mechanical Engineering                             | India |
| <b>D.K. Chaturvedi</b>             | Dayalbagh Educational Institute                        | Dept. of Footwear Technology                       | India |
| <b>Dr. (Ms.) Urmila Shrawankar</b> | G. H. Raisoni College of Engineering                   | CSE  | India |
| <b>Dr. Brijesh Kumar</b>           | Madan Mohan Malaviya University of Technology          | ECE  | India |

## 5.2 INTERNATIONAL ADVISORY COMMITTEE

| Name  | Department   | College/Universities Name | Country  |
|---|--|---------------------------|----------|
| <b>HAZHAR TALAAT<br/>ABUBAKER<br/>BLBAS</b> | Statistics   | Salahaddin University     | Iraq     |
| <b>Prof. (Dr.)<br/>Bhupendra Kumar</b>      | Accounting & Finance<br>Faculty of Business &<br>Economics | Debre Tabor University    | Ethiopia |

## 5.3 SCIENTIFIC COMMITTEE

| NAME                           | University   | Department                          | Country |
|--------------------------------|--|-------------------------------------|---------|
| <b>Dr.Madhu B</b>              | Dr.Ambedkar Institute of<br>Technology                 | CSE                                 | India   |
| <b>Mr.K.BOMMANNA</b>           | A.P.S. College of<br>Engineering                       | Mechanical<br>Engineering           | India   |
| <b>Dr.H.CHANDRASHEKAR</b>      | MEI Polytechnic ( Govt<br>Aided)                       | CIVIL<br>ENGINEERING                | India   |
| <b>Dr. Ambika.N</b>            | St.Francis College                                     | computer Science &<br>Applications, | India   |
| <b>Mr. Basavaraj Patil</b>     | SDM Institute of<br>Technology                         | ISE                                 | India   |
| <b>Chandra Singh</b>           | Sahyadri College of<br>Engineering &<br>Management     | ECE                                 | India   |
| <b>D. SATISHKUMAR</b>          | New Horizon College of<br>Engineering                  | ECE                                 | India   |
| <b>HADAGALI ASHOKA</b>         | BMS College of<br>Engineering, Bengaluru               | Biotechnology,                      | India   |
| <b>Dr. Kausik Mukherjee</b>    | AKS UNIVERSITY   | MANAGEMENT<br>BUSINESS<br>STUDIES   | India   |
| <b>Dr. Jalaja G</b>            | BNMIT  | CSE                                 | India   |
| <b>Dr. Nishant Kumar Singh</b> | Mangalmay Institute of<br>Management and<br>Technology | MANAGEMENT<br>BUSINESS<br>STUDIES   | India   |

|                                     |  |                                      |       |
|-------------------------------------|--|--------------------------------------|-------|
| <b>PROF. VIJAYALAKSHMI BHARATHI</b> | Alliance College of Engineering and Design             | Aerospace Engineering                | India |
| <b>Dr. V. GOKULA KRISHNAN</b>       | CVR College of Engineering                             | CSE                                  | India |
| <b>Dr. Sathish M</b>                | Rajalakshmi Engineering College                        | ECE                                  | India |
| <b>RAGHU G</b>                      | Acharya Institute of Graduate Studies                  | Department of Aviation Management    | India |
| <b>J.Navarajan</b>                  | Panimalar Institute of Technology                      | ECE                                  | India |
| <b>Dr.RAJ KUMAR. E</b>              | VIT UNIVERSITY, Vellore                                | School of Mechanical Engineering     | India |
| <b>Dr. D. Kavitha</b>               | St. Peter's Institute of Higher Education and Research | CSE                                  | India |
| <b>David Solomon Raju Y</b>         | Holy Mary Institute of Technology and Science          | ECE                                  | India |
| <b>Dr. Suraya Mubeen</b>            | CMR Technical Campus                                   | ECE                                  | India |
| <b>Dinesh Harkut</b>                | Prof. Ram Meghe College of Engineering & Management,   | CSE                                  | India |
| <b>Pravin Khandve</b>               | Prof. Ram Meghe College of Engineering & Management,   | CIVIL ENGINEERING                    | India |
| <b>MD. IQBAL</b>                    | Meerut Institute of Engineering & Technology (MIET)    | CSE                                  | India |
| <b>SAMPADA KUMAR SALGAME</b>        | RNS Institute of Technology                            | CSE                                  | India |
| <b>Dr. Sandhya . S</b>              | RV College of Engineering                              | CSE                                  | India |
| <b>DR. JAYDEEP PATIL</b>            | D.Y. Patil Agriculture and Technical University,       | CSE                                  | India |
| <b>Dr. Tushar Ashok Kshirsagar</b>  | Sandip Institute of Engineering and Management, Nashik | Department of Chemistry              | India |
| <b>Dr. MOHD KHURSHEED SIDDIQUI,</b> | Integral University                                    | Electrical Engineering               | India |
| <b>DR.AMBRESH P. AMBALGI</b>        | Mangalore University,                                  | Dept of Electronics,                 | India |
| <b>Velivela Gopinath</b>            | Sir C R Reddy College of Engineering,                  | Department of Information Technology | India |

|                                     |                                       |   |       |
|-------------------------------------|---------------------------------------|---|-------|
| <b>SURBHI SAROHA</b>                | Meerut College                        | Department of<br>Computer Science               | India |
| <b>SENTHILKUMAR<br/>KUMARASWAMY</b> | RAJALAKSHMI<br>ENGINEERING<br>COLLEGE | Electronics and<br>Communication<br>Engineering | India |
| <b>Bandita Naik</b>                 | Methodist college of<br>Engineering   | CIVIL<br>ENGINEERING                            | India |

## 6.SCIENTIFIC PROGRAM

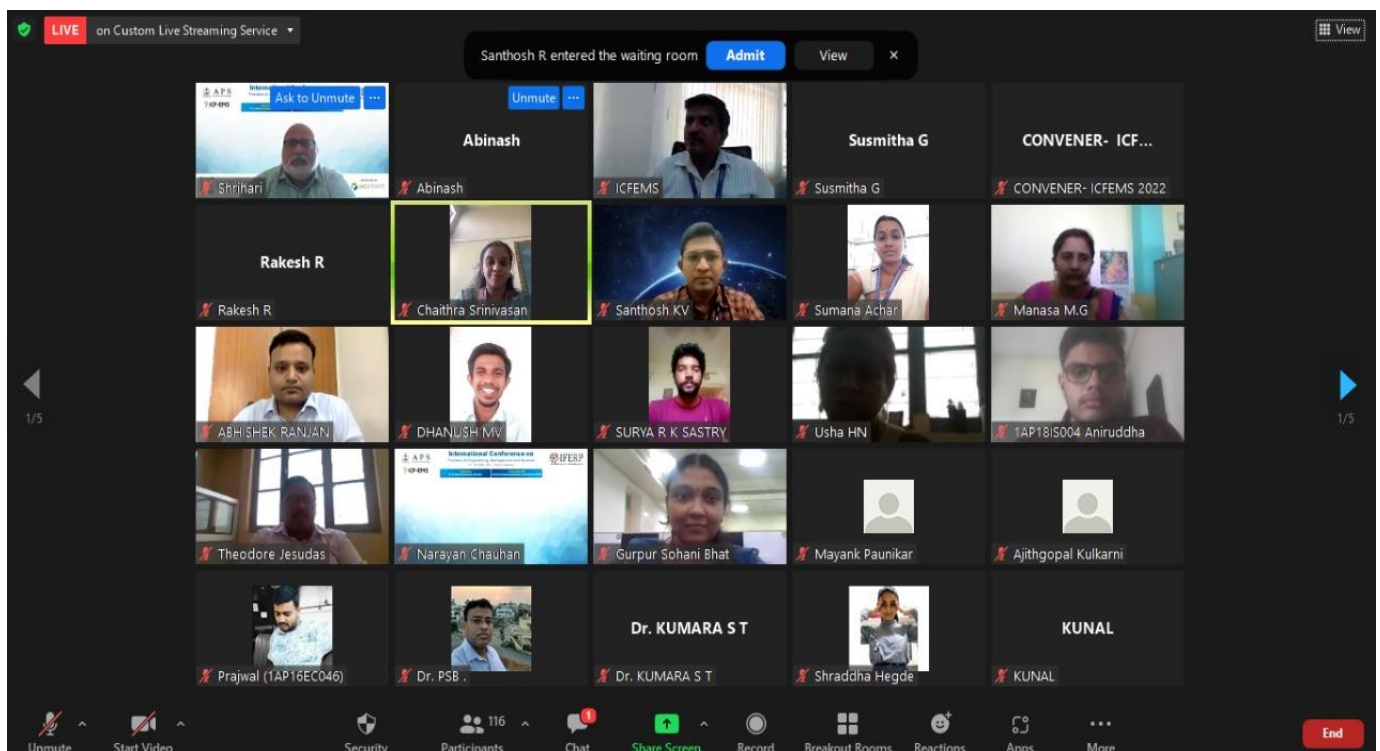
| Day          | Session                             | Topic   |
|--------------|-------------------------------------|---|
| <b>Day 1</b> | <b>Technical Session I</b>          | <b>DEPARTMENT OF<br/>ECE &amp; EEE</b>              |
|              | <b>Technical Session II<br/>(A)</b> | <b>DEPARTMENT OF<br/>MECHANICAL &amp;<br/>CIVIL</b> |
|              | <b>Technical Session II<br/>(B)</b> | <b>DEPARTMENT OF<br/>ECE &amp; EEE</b>              |

### 6.1 Technical Sessions

#### Technical Session I

- 1) Diabetes prediction system using machine learning  
**Aniruddha L**
- 2) Rectennas for energy harvesting systems and wireless power transfer: a review  
**Shalini M G**
- 3) Design analysis of a 3.2 kw wireless battery charger for an electric vehicle  
**Lt col Abhishek Ranjan**
- 4) Design and study of wdm based rof system with dispersion compensation  
**Dr. Srinivas babu p**

- 5) Unmanned helicopter project  
Praveen kumar N
- 6) Soldier security device  
Purushotham B
- 7) Engineering, analysis, concept realisation and working prototype of mobile renewable energy power for defence forces deployed in mobile renewable energy power for defence forces deployed in forward/operational areas.  
Lt Col Amit Bhat
- 8) Protection on distributed lines terminals due to excessive heating in load terminals units  
Trupti deoram tembhekar
- 9) Retinitis detection using convolution neural networks  
Ajithgopal.s.kulkarni
- 10) Advanced footstep power generation system  
Hemavathi S
- 11) Influence of the precursor functional groups and synthesis methods on the intrinsic and morphological properties of ZnO  
Debika Devi Thongam





## Technical Session II (A)

1. Structural Modification and Composite Material of Horizontal Tail of a Microlight Aircraft  
**Sharatkumar Sannamani**
2. Neuber's rule studies to get localized stress and strain for linear FE analysis                      Shashidhar  
**Gurusiddappa Chinagudi**
3. Finite Element Analysis of Wing-Fuselage Lug Attachment Bracket of the Fighter Aircraft.  
**KARIVADA MATHADA NAGABHOOSHANA**
4. Study of Hybrid Annuity Model in Maharashtra Samruddhi Mahamarg  
**MAYANK PAUNIKAR**
5. PRODUCTION AND CHARACTERIZATION OF HYBRID ALUMINIUM METAL MATRIX COMPOSITES  
**K.Swetha**
6. Investigations on Managing Triple Constraints in Construction Project Through Real Time Case Studies  
**P. DEEPTHIKA**
7. AMALGAMATING LEAN AND VALUE ENGINEERING CONCEPTS IN CONSTRUCTION PROJECTS  
**J. RAMYA**
8. Quantitative analysis and characterization of Blast furnace solid waste: Flue Dust  
**Satyendra Kumar Dewangan**
9. Comparative Analysis of Bamboo Fiber Reinforced with Glass Fiber Leafspring and Conventional Leaf Spring  
**ATHALE PRANJAL SUDHIR**
10. Influence of fly ash and alccofine on various properties of self- compacting concrete  
**A Muralidhar**
11. Assessment of Social Infrastructure of Thane City  
**Yogesh Keskar, Priyesh Waghmare**
12. Critical Evaluation of Housing Qualities through Infrastructure Assessment in Kolhapur Region  
**Yogesh Keskar, Gayatri Vhanbatte**
13. Calculating impact of age on effectiveness of EIBI in 3-5 years old ASD children in Delhi, India  
**Gurbani Kohli**

14. Changes in the activity of proline-metabolising enzymes is associated with increased cultivar-dependent chilling tolerance in mangos, in response to pre-storage melatonin application

Renu Bhardwaj

15. Seismic Condition Assessment and Retrofit Design of Keshar Mahal

Pramod K R

### Technical Session II (B)

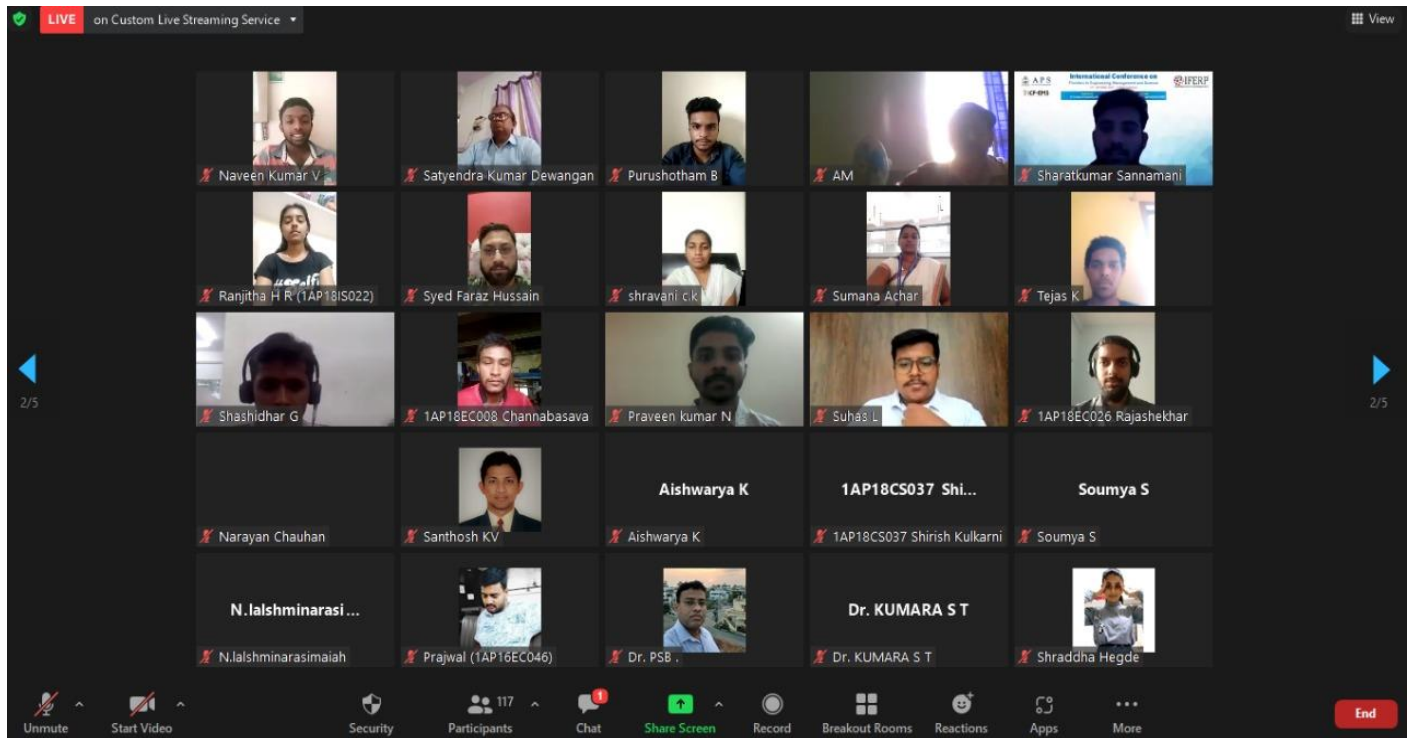
1. Power Analysis of a FIR Filter in Biometric Systems For different adder's configuration  
Manasa M G
2. Analysis of Throughput and Energy Efficiency in the IEEE 802.11e Networks using Constant back off Window Algorithm  
Harpreet Singh Bedi
3. Sign language interpreter for specially-abled people  
Tejas K
4. Iot based vehicle accident detection and notification algorithm  
Shraddha Suhas Hegde
5. Anti-theft vehicle security system using gsm and GPS technology  
Ankitha G
6. An Internet of Things (IoT) And Arduino-Based Energy Efficient Solar Tracker  
Priya K
7. Aircanvas using opencv  
Santhosh R
8. .Iot based implementation of air monitoring and purification system  
Shruti Ajit Parab
9. Power Saving Mechanism for Street Lights using IOT  
Prajwal H L
10. Charging Station For E-Vehicle using Solar Based IOT  
T Jesudas
11. Intelligent Packing System through IOT  
Surya R K Sastry

12. Power Management Strategies on Memory for Mobile Digital Devices

Krishnaveni Bukkapatnam

13. STUDENTS' ANXIETY AND LANGUAGE PROFICIENCY IN SECOND LANGUAGE LEARNING

Mary Shane Louie M. Sayson



**6. SCIENTIFIC PROGRAM**

| Day   | Session              | Topic                            |
|-------|----------------------|----------------------------------|
| DAY 2 | Technical Session I  | DEPARTMENT OF CSE & IT           |
|       | Technical Session II | DEPARTMENT OF S&H and MANAGEMENT |

## 6.2 Technical Sessions

### Technical Session I

1. Sign Language Alphabet Recognition Based on Depth Image and Pcanet  
**Prajwal N**
2. Pneumoni Aprediction Using Chest X-Ray Image Machine Learning  
**Vidya M**
3. Potato disease classification using convolutional neural networks (CNN)  
**Rajath R**
4. Machine Learning for Clinical Decision Making for Cardiovascular Disease  
**Shreya Pooja T**
5. A comparative study of big mart sales prediction using machine learning algorithms  
**K SHAMANTADAS DEVARU**
6. Predictive analysis for big mart sales using machine learning algorithms  
**YASHASWINI M**
7. Bitcoin – the digital currency Harshith S Video to text summarization using neural network  
**Varuna T S**
8. A systematic Air Quality Analysis for Air pollution control in india through Calibration and Machine learning analysis  
**T Somasekhar**
9. Performance Analysis of Distance vector and Linked state Routing Protocol using NS-2.35 Environment.  
**Swetha A**
10. American Sign Language Recognition System  
**Ritvika Sanap**
11. Blockchain based permissioned Electronic Health Records System.  
**Kumar Gaurav**
12. Cotton Plant Disease Detection And Control Using Convolutional Neural Network  
**Mansi Madhukar Mali**
13. Facial Recognition System In Unmanned Aerial Vehicle (UAV)  
**Samarth Viswanath**

**14. AGRISIGHT - CROP YIELD PREDICTION AND CROP LEAF DISEASE DETECTION**

**Akshaya Suresh**

**15. SMART FARM HYDROPONICS USING IOT AND ML**

**Deepa S**

**16. SMART VOTING SYSTEM USING FACE RECOGNITION**

**Gayathri Madappa**

**17. A Review on the potential of Artificial Intelligence Algorithms to predict and optimize invitro sterilization process to combat contamination in Plant Tissue Culture**

**Roshni B C**

**Technical Session II**

**Differential Evolution Algorithm: Application in Optimization to Engineering Problems**

**Bhargavi Ketkar**

**Role of pre-employment stage of psychological contract in enhancing employability of job seekers**

**Santhosh K V**

**Physical and mechanical method as a green approach of cell-lysis to release intracellular polyhydroxyalkanoates from Bacillus sp.**

**Sohani Bhat G**

**Green Human Resource Management: A New Paradigm for Sustainable Development. Sujata Das Implementation Of Ict Tools In A Vocational Skill Development Program**

**Boby Narayan**

**Antibacterial and antifungal activities of Ag nanoparticles prepared by Artocarpus gomezianus fruit mediated facile green combustion method**

**Anitha R**

**Rising Psychological Stress among Corporate Professionals in India Due to Breakdown of Social and Traditional Values**

**Anuja Thakar**

**What are the factors affecting decision making of student's opting for Management studies in India**

**Nikita Jaiswal**

## ANALYSIS OF ASANA PRACTICES COMBINED WITH NEUROMUSCULAR DRILLS ON ABDOMINAL STRENGTH OF SCHOOL LEVEL FENCERS

A Lincy

## Exploring Digital Marketing Tools on Buddhist Tourism Destination Choice Special References Sikkim

Urgen Mangar

## Computation of different Topological Indices of Line Graph and Sub-division graph of Friendship Graph using M –Polynomial

Sridhara K R

## Diabetic Retinopathy Fundus image classification using Deep Learning

Shirish S Kulkarni

## Plant Leaf Disease detection using Artificial Neural Networks

Ankith Gowda M

## Early Forest Fire Detection Using Rule Based Image Processing Techniques

Lahari Sai K S

## FLIGHT CONTROL SYSTEM USING DRONE

SHEETAL. R. KUMAR

## Soil Monitoring System for Enhanced Crop Yield using IoT

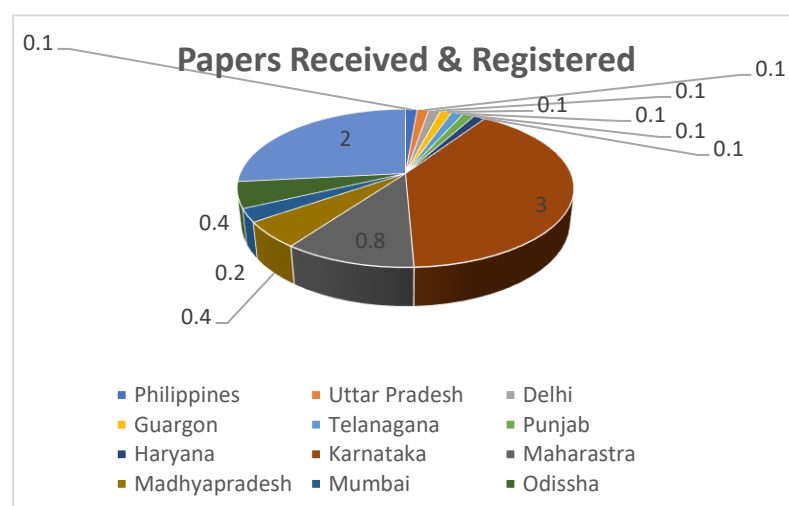
Faizan Shariff

## A Review on the potential of Artificial Intelligence Algorithms to predict and optimize invitro sterilization process to combat contamination in Plant Tissue Culture

Preeti Kaushi

### 7.Survey Analysis

#### 7.1Registered Statistics



## 8.VALIDICTORY

In the Valedictory best paper and best paper Presentation of International Conference on Frontiers in Engineering, Management and Science (ICFEMS -2022) was announced.

### Best paper award



**ICF-EMS**

International Conference on  
Frontiers in Engineering, Management and Science (ICFEMS -2022): 27<sup>th</sup> and 28<sup>th</sup> April 2022



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#### Best Papers

| Sl #  | Title of the Paper  | Name of the Presenter (s)         | Remarks           |
|---|---|-----------------------------------|-------------------|
| <b>Department of ECE &amp; EEE</b>            |   |                                   |                   |
| 1   | Design analysis of a 3.3 kv Wireless battery charger for an Electric Vehicle  | Li. col Abhishek Ranjan           | Best Paper        |
| 2   | Design and study of WDM based ROF system with dispersion compensation   | Dr. Srinivas babu P               | Best Presentation |
| <b>Department of ME &amp; Civil Engg.</b>     |   |                                   |                   |
| 1   | Neuber's rule studies to get localized stress and strain for linear FE analysis   | Shashidhar Gurusiddappa Chinasudi | Best Paper        |
| 2   | Influence of fly ash and alkofine on various properties of self- compacting concrete                                      | A.Musalidhar                      | Best Presentation |
| <b>Department of CSE &amp; IT</b>             |   |                                   |                   |
| 1   | Performance Analysis of Distance vector and Linked state Routing Protocol using NS-2.35 Environment.                      | Swetha A                          | Best Paper        |
| 2   | Agri sight - Crop Yield Prediction and Crop Leaf Disease Detection  | Akshaya Sureah                    | Best Presentation |
| <b>Department of S &amp; H and Management</b> |   |                                   |                   |
| 1   | Role of pre-employment stage of psychological contract in enhancing employability of job seekers                          | Santhosh K V                      | Best Paper        |
| 2   | Computation of different Topological Indices of Line Graph and Sub-division graph of Friendship Graph using M -Polynomial | Sridhara K R.                     | Best Presentation |

## 9.VOTE OF THANKS:

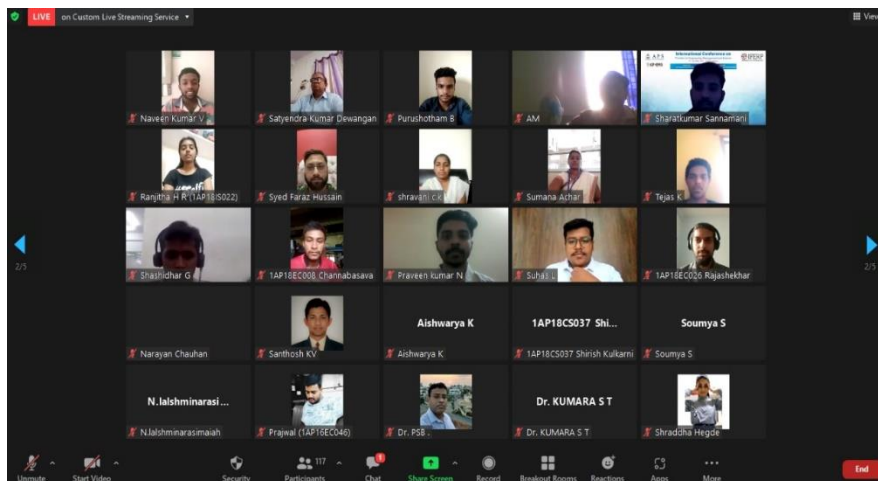
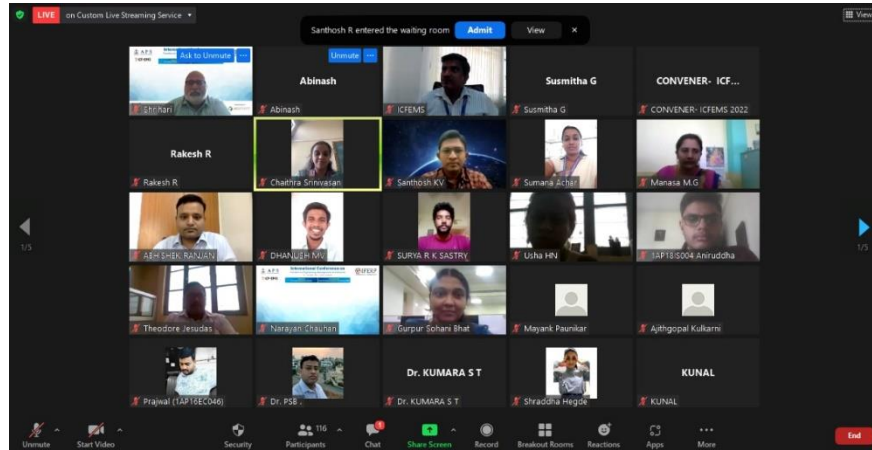
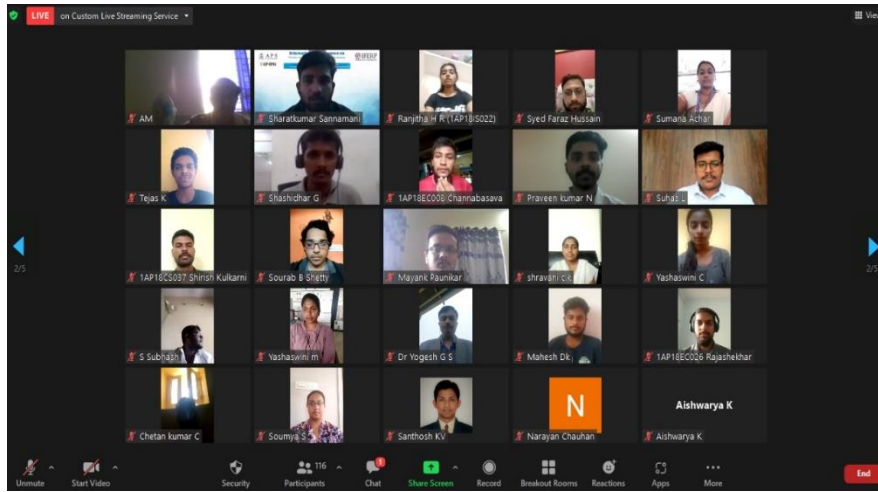
International Conference on Frontiers in Engineering, Management and Science (ICFEMS - 2022) successfully hosted its premiere on 27<sup>th</sup> & 28<sup>th</sup> April 2022. The conference was organized with a focus on Engineering, Social- Sciences An Humanities and it was a great success where eminent keynote speakers from various universities addressed the gathering.

The generous response and active participation of the Organizing Committee Members and Editorial Board members of Engineering, Social- Sciences An Humanities we take the opportunity to thank all the speakers, delegates and participants for providing their valuable support and time for ICSTM 2022.

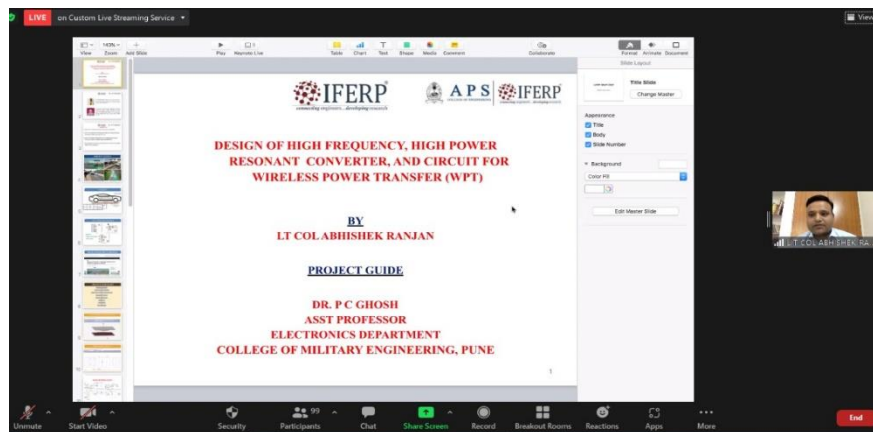
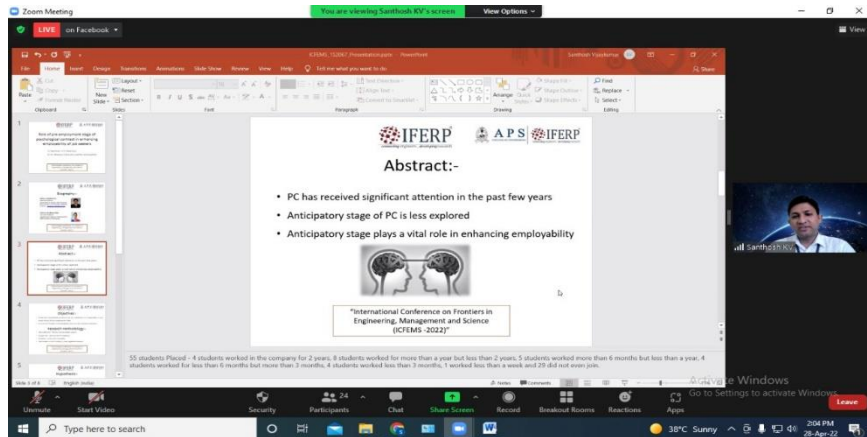
Organizing Committee would like to thank the Moderator of the conference, and who contributed a lot for the smooth functioning of this event.

congratulates the Best Paper ,Best paper Presentation awardees for their outstanding performance in the field of Engineering, Social- Sciences An Humanities and appreciates all the participants who put their efforts in poster presentations & Young Researchers form and sincerely wishes them success in future endeavours. We would like to thank the Dr. Marina S. Apilado, Vice President for External Affairs and Quality Assurance, Eastern Samar State University, Philippines for their value judgment. We would like to thank the

## 10.CONFERENCE GLIMPSES







## Proceeding Book

Click the link to download the Proceedings Books

<https://drive.google.com/drive/folders/10WSOEcCLdJbsICXtYQaYw1DbrmrOj4Sq>

## Conference poster

Click the link to download the poster

<https://drive.google.com/drive/folders/10WSOEcCLdJbsICXtYQaYw1DbrmrOj4Sq>

## Conference Background



## Conference poster

Click the link to download the Brochure

<https://drive.google.com/drive/folders/10WSOEcCLdJbsICXtYQaYw1DbrmrOj4Sq>

## 11.CONCLUSION SUMMARY

ICFEMS 2022 was a success event organized by IFERP & APS college of Engineering amid the COVID19 with a collective effort from host organization, Organization committee members and all participants. This event provided a learning experience to all and shape ourselves to near future. We would like to conclude with Thank you to all.