**SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN :: BHIMAVARAM**
**(Autonomous)**

**ANNUAL REPORT :: 2021-22**

## Institute Profile:

Shri Vishnu Engineering College for Women (A) – SVECW was established in 2001 to cater to the needs of the aspirations of rural girl students in the field of engineering education. Since its inception with three undergraduate programs with an intake of 180 students, the college has incrementally added more programs. Presently, there are seven undergraduate and five PG programs with an intake of 972.

Over the years, SVECW has been recognized by various national and international bodies such as NBA, NAAC, NIRF, AIIRA, AICTE – CII Survey, AICTE – USVA 2020, MHRD – IIC, IMC, APQO and QEEE, as an institute of excellence.

The Industry Relations of SVECW is one of its kinds with multi-layered support system. The network of offices in Hyderabad, Chennai, Bengaluru, Pune, and Vadodara will be in constant touch with diversified industries across the country to pursue placements, internships, industry - academia interaction, R&D collaborations etc. Leadership is actively involved in promoting change in education and industry collaborations by taking active role in Industry Bodies such as NASSCOM, CII etc.

SVECW also has MoUs with many companies (IT as well as core) in designing the industry specified curriculum, faculty development, certifications for students etc. These activities help students and faculty to stay ahead of their peers in acquiring the latest technologies and skills.

SVECW works with organizations such as TalentSprint, Smart Interviews, ELEPHOS, VINEX, TIME and Foreign Language Programs on specific Academic Programs to help students get the skillset before they graduate and be ready to be productive for hiring organizations from Day-1. Skill promotion has helped students perform consistently, be superior in many competitions organized by Industry. The examples are Hackathons or coding or project competitions.

These initiatives always stand SVECW consistently ahead of others in placements from 2015 onwards in top MNCs such as Amazon, Flipkart, Adobe, Caterpillar, ZOHO, JohnDeer, Providence, American Express etc.

SVECW is proud of its uniqueness in many ways. To mention a few:

- ✓ Radio Vishnu 90.4, the only college in A P state to have FM Radio
- ✓ Rural Women Technology Park
- ✓ FIST
- ✓ Assistive Technology Lab
- ✓ IUCEE
- ✓ Vehicle Design Lab
- ✓ IoT Lab
- ✓ TBI

The college has MOUs with academia such as Central Michigan University, University of Massachusetts, Community College of Philadelphia, Purdue University, Northern Illinois University and IEG, GC German Center for Engineering and Management Studies UG Aachen and European Center for Mechatronics APS GmbH Aachen, and University of Bolton.

The college believes that teaching and research are interlinked. In order to ably do this, the college gives financial assistance to faculty to pursue higher education through initiatives such as reimbursement of tuition and registration fee for Ph.D Programs, leave with pay for post graduate and Ph.D Programs, financial assistance to attend and conduct conferences and workshops. The college acknowledges and honors teachers with special talents and competencies with awards and monetary rewards.

The college's knowledge hub, the library houses a large number of books and journals both print and online to cater to the intellectual needs of faculty and students.
The teaching-learning is given top priority. Some of the unique features of the curriculum include:

- ✓ Open Electives
- ✓ Pre Electives
- ✓ Self-phase Learning Courses
- ✓ Art Courses
- ✓ Value Added Courses
- ✓ Internship support
- ✓ Bridge and Remedial Courses for slow learners

To cultivate research mindset in students, they are encouraged to become members of a number of professional bodies like ISTE, SAE, CSI, IETE, IEEE, IET and ICI. Some of the economically weak students are given fee waivers, opportunities to earn while they learn and financial assistance in participating at state/national level conferences/seminars etc.

Apart from the curriculum, the students are engaged in a large variety of projects. Some of which are: Visitor tracking system, Unmanned autonomous boat, Bamboo Bicycle, E-stick, Braille Printer etc.

The students of SVECW have the advantage of pursuing their interests and hobbies through a 28 student clubs to showcase their creativity and develop their leadership skills.

To mention a few: CodeChef SVECW Chapter, Toastmasters International Club, SAHAYA, IDEA Club, Amateur Astronomy Association, Eco-friendly Club, MECOW etc.

Amenities at SVECW include 1200 capacity of a/c auditorium, Open air auditorium, electricity power backup, computing facilities, RO Plant, water sewage treatment plant, hostels, book store, Bank, post office, photo studio, tailoring shop, car driving institute, ATMs, beauty parlour, convenience store and temples, boat club, swimming pool, Radio Vishnu, Vishnu TV Academy, Music Club etc.

The well-equipped gymnasium and dedicated Psychology department with qualified staff provide recreation through mental and physical fitness.

**Education at SVECW is an experience.**

# *Vision of the Institute*

Transform the society through excellence in Education, Community empowerment and sustained Environmental protection.

# *Mission of the Institute*

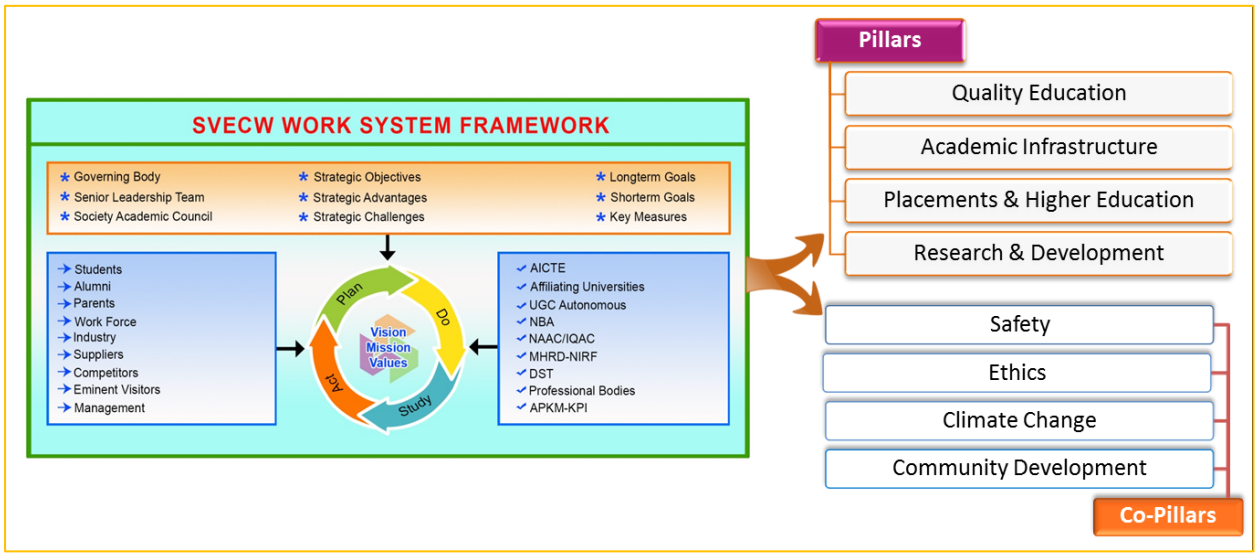
- ✓ To achieve Academic excellence through innovative learning practices
- ✓ To instill self confidence among rural students by supplementing with co-curricular and extra-curricular activities
- ✓ To inculcate discipline and values among students
- ✓ To establish centers for Institute Industry partnership
- ✓ To extend financial assistance for the economically weaker sections
- ✓ To create self-employment opportunities and skill up gradation
- ✓ To support environment friendly Green Practices
- ✓ Creating innovation hubs

# *Values of the Institute*

- ✓ We strive for excellence in all that we do in order to model success for our students
- ✓ We focus on students' success and satisfaction and meeting the needs of the community
- ✓ We take pride in the quality of our organization and work, and we value, originality, integrity, consistency, and attention to detail
- ✓ We stay abreast of ever-changing youth culture, emerging communication technologies and design trends
- ✓ We set benchmarks and model high quality standards for students, faculty, staff, and community partners
- ✓ We lay utmost importance on discipline, punctuality, personal values and healthy practices
- ✓ We create an innovative environment for students and staff to develop an integrated personality
- ✓ Inclusive community projects

# *Work System of SVECW*

In SVECW, the accountability is accomplished with an efficient and effective work system framework commissioned since inception of the institution. The agile featured SVECW work system framework mainly focuses on Quality Education, Infrastructure, Placements & Higher Studies and Research & Development as its Pillars. It also in-tune with ethics, innovation, mend with safety and adaptable for any climate change as its Co-Pillars presented here.




## Pillars of SVECW

### Quality Education

- ✓ Teaching-Learning Zone:
  - Direct Instruction
  - Problem Based
  - Co-operative
  - Activity Based
  - Case Based
  - Small Group Teaching
  - Virtual
  - Project-Based
- ✓ Micro level lessen plan
- ✓ Guest Lectures
- ✓ Workshops
- ✓ Professional Bodies
- ✓ Industrial Visits
- ✓ Webinars
- ✓ Orientation Programs
- ✓ QEEE
- ✓ NPTEL, e-content
- ✓ MOOCS
- ✓ Google Classroom Learning
- ✓ Student Clubs
- ✓ TEQIP

### Infrastructure

- ✓ VEDIC
- ✓ Centers of Excellence
- ✓ State-of-the-art-Laboratories
- ✓ Central Library
- ✓ Knowledge Center
- ✓ Modern Auditoriums
- ✓ Campus Book Stores
- ✓ Wi-Fi Campus
- ✓ Radio Vishnu 90.4CR
- ✓ Vishnu T.V Academy
- ✓ ECAP
- ✓ PACT
- ✓ Campus Hostel
- ✓ Food Courts
- ✓ Fitness Centers
- ✓ Staff Quarters
- ✓ Swimming Pool
- ✓ Sports Complex
- ✓ Driving School

### Placements & Higher Education

- ✓ TAP team
- ✓ Industry-Institute Interaction Cell
- ✓ Placement Liaison Offices
- ✓ Career Guidance Cell
- ✓ Placements Internal Training
- ✓ Placements External Training
- ✓ Foreign Languages
- ✓ APSSDC
- ✓ Industry MOU's
- ✓ Internships
- ✓ Placements
- ✓ Mission R & D
- ✓ Embedded Co-curricular Calendar
- ✓ Industrial Visits
- ✓ Entrepreneurship Cell
- ✓ Mentoring/Customization
- ✓ Certification Courses
- ✓ GATE/GRE Training

### Research & Developmnet

- ✓ R&D Centers
- ✓ Research Labs
- ✓ Founded R & D Projects
- ✓ Faculty Publications
- ✓ Student Publications
- ✓ Book Publications
- ✓ Patents
- ✓ ATL
- ✓ Multi-Disciplinary Projects
- ✓ MOU'S with R & D organization
- ✓ Consultancy
- ✓ Incentives
- ✓ Interaction with Eminent Researchers
- ✓ Faculty Development Programs

- ✓ Project Exhibitions
- ✓ Technical Events
- ✓ VKC / VEMC
- ✓ Psychology Department
- ✓ Bank & ATMs
- ✓ Power Backup

## Co-Pillars

### Community Development

- ✓ Rural Women Technology Park
- ✓ Swarna Bharath Trust
- ✓ Blood Donation Camps
- ✓ Donations
- ✓ Smart Villages Adaption
- ✓ NSS Activites
- ✓ Sahaya Club

### Safety

- ✓ Security Guards
- ✓ CC Cameras
- ✓ Fire Extinguishers
- ✓ Parking Lanes with Sign Boards
- ✓ Bio-metric Gate Pass
- ✓ Personal protective Equipment

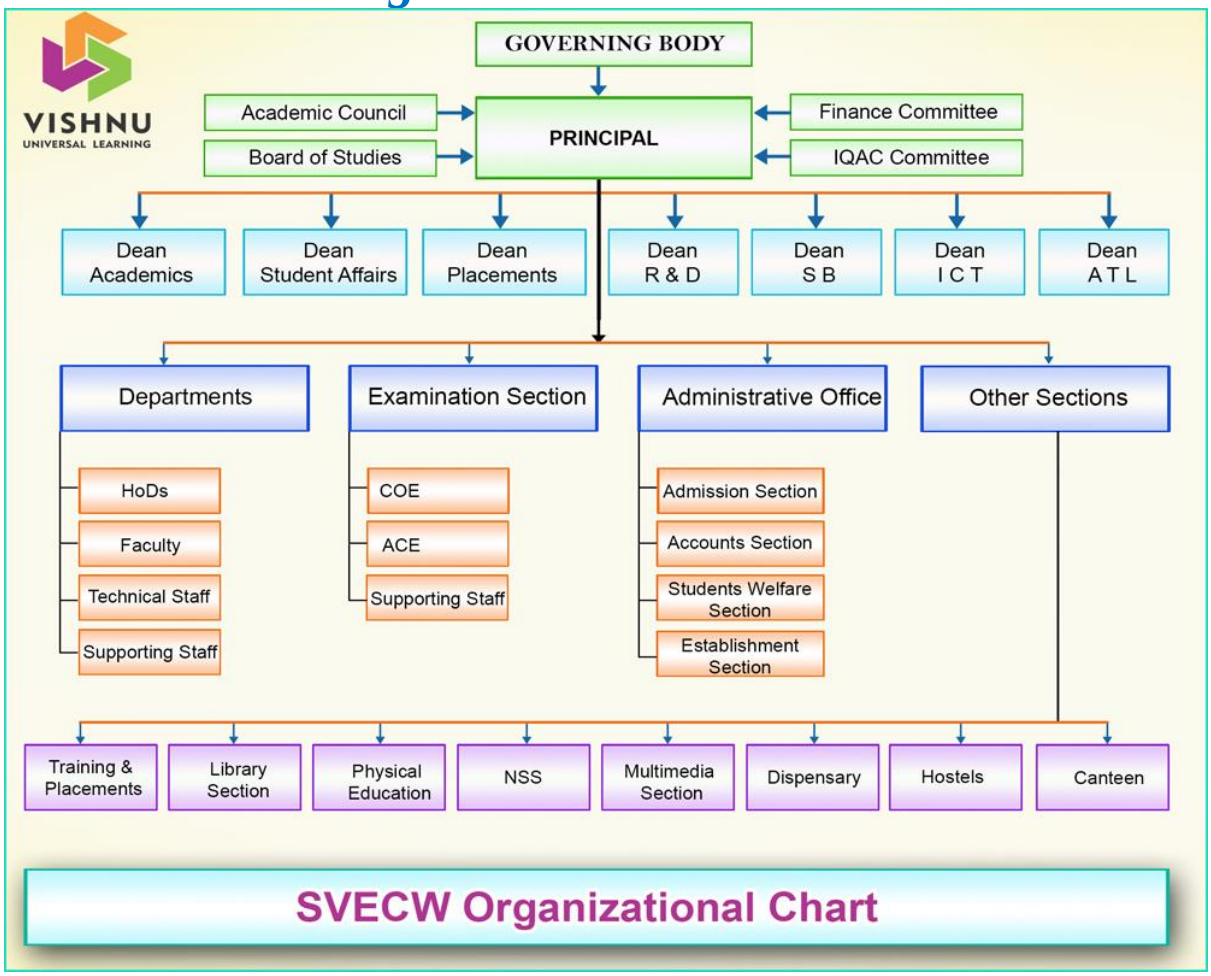
### Climate Change

- ✓ Green Plantation
- ✓ Solar Power
- ✓ Avoiding Usage of Plastic
- ✓ Harvesting Rain water
- ✓ Sewage Water treatment plants
- ✓ RO water plant
- ✓ Cycling in campus
- ✓ World Earth Day

### Ethics

- ✓ Blood Banks
- ✓ Scholarships
- ✓ Staff Welfare Found
- ✓ Ethics related courses in curriculum
- ✓ Committees
- ✓ Empathy Club

# *Organizational Structure*



# *Members of Governing Body*

| Name | Nature | Category |
|---|---|---|
| Sri. K. V. Vishnu Raju,<br>Chairman, SVES | Chairman | --- |
| Sri. R. Ravichandran,<br>Vice-Chairman, SVES | Member | Management Nominee |
| Sri. K. Aditya Vissam,<br>Secretary, SVES | Member | Management Nominee |
| Sr. J. V. S. S. R. D. Prasada Raju<br>Director, SVES | Member | Management Nominee |
| Dr. D. Suryanarayana,<br>Principal, VIT | Member | Management Nominee |
| Dr. P. Srinivasa Raju,<br>Vice Principal, SVECW | Member | Management Nominee |
| Dr. S. M. Padmaja,<br>Professor, SVECW | Member | Professor Nominee |
| Dr. U. Chandra Sekhar,<br>Director, ESCI | Member | Management Nominee |
| Dr. Anusha R,<br>CEO, PARK Group of Institutions | Member | Management Nominee |
| Sri. J V Sathyanarayana,<br>RJD, Kakinada | Member | State Government Nominee |
| Dr. V. V. Subba Rao,<br>Registrar, JNTUK | Member | University Nominee |
| Dr. G. Srinivasa Rao,<br>Principal, SVECW | Member | Member Secretary |

# *Members of College Academic Council*

| College Academic Council | | |
|---|---|---|
| 1 | Dr. G. Srinivasa Rao, Principal, SVECW | Chairman |
| 2 | Dr. R. Srinivasa Rao, Director of Academic Planning, JNTUK | University Nominee |
| 3 | Dr. L. Suma Latha, Director of Evaluation, JNTUK | University Nominee |
| 4 | Dr. K. Sahadevaiah, Professor of CSE, JNTUK | University Nominee |
| 5 | Sri K.A. Rama Krishnam Raju, Project Manager, Tech Mahindra | Industry Expert |
| 6 | Sri J.V.S.S.R.D. Prasada Raju, Director (Admin.), SVES | Member |
| 7 | Dr. D. Suryanarayana, Director, VIT | Member |
| 8 | Dr. P. Srinivasa Raju, Vice-Principal, SVECW | Member |
| 9 | Dr. S.M. Padmaja, HOD-EEE, SVECW | Member |
| 10 | Dr. K. Padma Vasavi, HOD-ECE, SVECW | Member |
| 11 | Dr. P. Kiran Sree, HOD-CSE, SVECW | Member |
| 12 | Dr. D. V. Naga Raju, HOD-IT, SVECW | Member |
| 13 | Dr. P. Girish Kumar, HOD-CE, SVECW | Member |
| 14 | Dr. D. Ravi Kiran, HOD-Maths, SVECW | Member |
| 15 | Dr. J. V. Srinivas, HOD-Physics, SVECW | Member |
| 16 | Dr. K. Jagadeesh, HOD-Chemistry, SVECW | Member |
| 17 | Sri. P. Sreehari Raju, HOD-English, SVECW | Member |
| 18 | Sri. M. Prudhvy Raju, HOD-MBA, SVECW | Member |
| 19 | Sri P. Suryaprakash Varma, Controller of Exam., SVECW | Member Secretary |

# *Courses Offered – Intake*

Details of Intake 1st year of B.Tech. M.Tech and MBA during the academic year 2021-222 are given in the table.

| Course | Approved Intake |
|---|---|
| B.Tech. – Civil Engineering | 60 |
| B.Tech. – Computer Science & Engineering | 180 |
| B.Tech. – Electronics & Communication Engineering | 120 |
| B.Tech. – Electrical & Electronics Engineering | 60 |
| B.Tech. – Information Technology | 180 |
| B.Tech. – Mechanical Engineering | 60 |
| B.Tech. – CSE [Artificial Intelligence & Data Science] | 120 |
| B.Tech. – CSE[Artificial Intelligence & Machine Learning] | 60 |
| M.Tech. – Computer Science & Engineering | 18 |
| M.Tech. – Software Engineering | 18 |
| M.Tech. – VLSI Design | 18 |
| M.Tech. – Power Electronics | 18 |
| M.B.A. | 60 |

# *Centers of Excellence*

- ✓ Assistive Technology Lab
- ✓ Women In Software Engineering (WISE) Programme
- ✓ Vehicle Design Lab
- ✓ Rural Women Technology Park
- ✓ Texas Instrument Lab
- ✓ IoT Lab
- ✓ Power Energy Lab
- ✓ Foreign Languages Training

# *Professional Bodies*

Students' Chapters of Professional Bodies The College also organized various co-curricular activities for students through the Professional Chapters:

- ✓ Indian Society for Technical Education (ISTE)
- ✓ Institution of Electronics and Telecommunication Engineers (IETE)
- ✓ Computer Society of India (CSI)
- ✓ The Institute of Electrical and Electronics Engineers (IEEE)
- ✓ Society of Automotive Engineers India (SAEIndia)
- ✓ Indian concrete institute (ICI)
- ✓ Institution of Engineers (IE)

# *Student Clubs*

- ✓ AAA Club
- ✓ Tech Xtreme Club
- ✓ Story telling Club
- ✓ Sparta Club
- ✓ Happy Club
- ✓ Eco Friendly Association
- ✓ Photography Club
- ✓ Sports Club
- ✓ Painting Club
- ✓ Idea Club
- ✓ Organic Farming Club
- ✓ Fashion Designing Club
- ✓ Page Turners Club
- ✓ Mecow Club
- ✓ Splash Out Club
- ✓ Empathy Club
- ✓ TechniSafoos Club
- ✓ Toast Masters Club
- ✓ Self Defence Club
- ✓ Synergy Club
- ✓ Mathlets Club
- ✓ Future India Club
- ✓ Vishnu Music Club
- ✓ Sahaya Club
- ✓ Rockmefab Club
- ✓ Cultural Club
- ✓ Dance Club
- ✓ CodeChef SVECW Chapter

# *Placements Details*

| **2018-2022 Placements as on date: 1892** | | | |
|---|---|---|---|
| **S. No.** | **Company Name** | **No. of Selects** | **Salary(LPA)** |
| 1 | Paloalto | 2 | 49 |
| 2 | Microsoft | 1 | 44.3 |
| 3 | Adobe | 1 | 41 |
| 4 | Expedia | 4 | 37.4 |
| 5 | Myntra | 5 | 27 |
| 6 | Flipkart | 5 | 26.57 |
| 7 | Cloudera | 1 | 22.7 |
| 8 | Walmart | 1 | 22.39 |
| 9 | Deshaw | 1 | 20 |
| 10 | Wells Fargo | 2 | 20 |
| 11 | VMWare | 3 | 19.97 |
| 12 | Experian | 2 | 15.12 |
| 13 | JP Morgan | 1 | 14 |
| 14 | NCR | 6 | 14 |
| 15 | BNY MELLON | 2 | 14 |
| 16 | F5 | 2 | 14 |
| 17 | Amazon | 3 | 13 |
| 18 | Providence | 2 | 12 |
| 19 | Zenoti – Software Engineer | 5 | 11.73 |
| 20 | NAVIS – Associate Software Engineer | 1 | 11.6 |
| 21 | Athena Health | 8 | 11 |
| 22 | Optum | 54 | 10 |
| 23 | NAVIS – Associate Consultant | 1 | 10 |

| | | | |
|---|---|---|---|
| 24 | HPE | 3 | 10 |
| 25 | Providence – Service Engineer | 1 | 9 |
| 26 | FactSet | 6 | 8.91 |
| 27 | Halliburton | 1 | 8.68 |
| 28 | Intellipaat Software Solutions | 1 | 8.65 |
| 29 | State Street Corp | 12 | 8.6 |
| 30 | DBS Bank | 3 | 8.5 |
| 31 | Caterpillar | 6 | 8.05 |
| 32 | OpenText | 28 | 8 |
| 33 | Delhivery | 3 | 8 |
| 34 | Persistent – Higer Package(Viveka) | 6 | 7.5 |
| 35 | CAPGEMINI – Senior Analyst | 7 | 7.5 |
| 36 | Informatica | 2 | 7.4 |
| 37 | Zenoti – Implementation Cosnsultant | 8 | 7.23 |
| 38 | IBM-CIO | 14 | 7.2 |
| 39 | Aptean – Bangalore | 15 | 7.02 |
| 40 | Dell | 2 | 7 |
| 41 | TCS Digital | 10 | 7 |
| 42 | Zemoso | 3 | 6.89 |
| 43 | Cognizant – GenC Next | 13 | 6.75 |
| 44 | Accenture – Advanced ASE | 53 | 6.6 |
| 45 | Publicis Sapient | 6 | 6.5 |
| 46 | Kaar Technologies | 3 | 6.5 |
| 47 | Verizon | 16 | 6.5 |
| 48 | Latent view | 7 | 6.5 |
| 49 | Mahindra & Mahindra | 18 | 6.5 |
| 50 | Saint Gobain | 10 | 6.3 |
| 51 | Infosys – HWI Digital Specialist Engineer | 16 | 6.25 |
| 52 | Bank of America | 10 | 6 |
| 53 | Price Water Coopers (PwC) | 21 | 6 |
| 54 | EPAM | 6 | 6 |
| 55 | Tek Systems – Trainee Engineer | 4 | 6 |
| 56 | MAQ | 8 | 6 |
| 57 | XPO | 3 | 6 |
| 58 | SS&C | 3 | 6 |
| 59 | Epiroc | 5 | 6 |
| 60 | Rockwell Automation | 4 | 6 |
| 61 | Aptean – Madurai | 11 | 5.94 |
| 62 | Cameron Schlumberger | 4 | 5.94 |
| 63 | TA Digital | 7 | 5.7 |
| 64 | Zoho | 5 | 5.6 |
| 65 | GEP | 2 | 5.5 |
| 66 | JSW | 4 | 5.5 |
| 67 | Seneca Global | 6 | 5.25 |
| 68 | Amdocs | 5 | 5.2 |
| 69 | ProKarma Global | 5 | 5 |
| 70 | Accolite | 6 | 5 |

| | | | |
|---|---|---|---|
| 71 | Harman – A Samsung Company | 15 | 5 |
| 72 | Technovert – Full Stack Developer | 2 | 5 |
| 73 | Hexaware | 4 | 5 |
| 74 | Lumen | 4 | 5 |
| 75 | Persistent – Base Package(Navayauga) | 82 | 4.71 |
| 76 | ATKINS | 3 | 4.57 |
| 77 | Accenture – ASE | 201 | 4.5 |
| 78 | Technovert (Software Engineer – Data & Analytics) | 4 | 4.5 |
| 79 | Faurecia | 9 | 4.5 |
| 80 | Aizen Algo | 1 | 4.5 |
| 81 | Brillio | 6 | 4.5 |
| 82 | Hyundai Mobis | 2 | 4.5 |
| 83 | Symphony Retail | 7 | 4.5 |
| 84 | IBM | 1 | 4.5 |
| 85 | Flexibility | 1 | 4.4 |
| 86 | Capgemini – Analyst | 146 | 4 |
| 87 | Virtusa – Neural Hack | 54 | 4 |
| 88 | Virtusa – Campus Hiring | 7 | 4 |
| 89 | Hexaware | 20 | 4 |
| 90 | Zensar | 10 | 4 |
| 91 | Sunera | 28 | 4 |
| 92 | Verzeo | 4 | 4 |
| 93 | Cognizant – GenC | 74 | 4 |
| 94 | Cognizant – GenC Elevate (4 LPA+ Skill Bonus) | 24 | 4 |
| 95 | LTTS | 29 | 4 |
| 96 | Frugal Testing | 1 | 4 |
| 97 | Infosys – HWI Systems Engineer | 5 | 3.6 |
| 98 | Infosys – Infytq | 7 | 3.6 |
| 99 | Infosys | 92 | 3.6 |
| 100 | HCL | 3 | 3.6 |
| 101 | WIPRO | 265 | 3.5 |
| 102 | MuSigma | 84 | 3.5 |
| 103 | Mindtree | 1 | 3.5 |
| 104 | TCS Ninja | 142 | 3.36 |
| 105 | CSS Corp | 9 | 3.2 |
| 106 | Teachnook | 15 | 3 |
| 107 | Quest Global | 1 | 3 |
| 108 | ARI | 3 | 3 |
| 109 | FACE | 6 | 3 |
| 110 | Skolar | 5 | 2.20 |
| 111 | FactSet | 2 | 3.22 |
| 112 | SS&C | 3 | 6.00 |
| 113 | Sobha Constructions, Dubai | 1 | 48000 AED |
| 114 | Intellipaat Software Solutions | 4 | 9.00 |

# *Research & Development Activities*

## *Details of Patents ::*

| Application Number | Applicant Name | Dept. | Date of Filing | Title Of Invention |
|---|---|---|---|---|
| 2021101341 | Mr. K. Ravi Teja | CSE | 16-03-2021 | Women safety hidden malicious chip using IOT based location tracking technology |
| 2021101322 | Mr. Anuj Rapaka | CSE | 14-03-2021 | AWS-Cloud Data (EC2) (Amazon Web Services) performance improvement using Machine and Deep Learning Programming |
| 202141061897 | Dr. M. S. Sudheer | CSE | 30-12-2021 | An Intelligent transportation road accident prediction and prevention Device |
| 202141012254 | 1. Dr. Pokkuluri Kiran Sree<br>2.Y Ramu<br>3. K. V. Narayana Rao<br>4. M. Narasimha Raju<br>5.V. S. S. P. Raju Gottumukkala<br>6. S Sudheer Mangalampalli<br>7. Anuj Rapaka<br>8. Ramesh Babu Mallela<br>9. Bhadrachalam Kollati<br>10.Raviteja Kocherla | CSE | 22-03-2021 | A System And Method Of Long-Range Package Delivering Drones With Instant On-Path Recharging Technique |
| 202141012346 | 1. Dr. Pokkuluri Kiran Sree<br>2. Dr. V. Purushothama Raju<br>3. Dr. K. Ramachandra Rao<br>4. A.Seenu<br>5. P R Sudha Rani<br>6. P J R Shalem Raju<br>7. P. Raju<br>8. G. Mohan Ram<br>9. M V V Rama Rao<br>10. T.Kesava | CSE | 23-03-2021 | An Iot Based System For Instinctive Stopping Alert To Drivers Using On Passenger Ticket. |

| | | | | |
|---|---|---|---|---|
| 202111058532 | Dr. Pokkuluri Kiran Sree | CSE | 31-12-2021 | Quality Image Analysis of Cardiovascular Disease Prediction using deep Learning |
| 2021104394 | Dr. PRADEEP M | ECE | 21-07-2021 | Design of Solar Energy System with Effective Extraction with Lab view Environment |
| 202141028654 | Dr. Ratikantha Sahoo | ECE | 25-06-2021 | An Efficient Enhanced VLSI Architecure of Montgomery Modular Multiplication |
| 2021100538 | Dr.B.Suresh Babu | EEE | 28-01-2021 | Crop Health Monitoring System Using IoT and Machine Learning |
| 2021100960 | Dr.B.Suresh Babu | EEE | 21-02-2021 | Artificial Intelligence Based Cooling System for Managing the Energy Efficiency. |
| 202141048070A | Mrs.G.Bharathi | EEE | 21-10-2021 | IoT and Machine Learning-based Navigation Device for Blind |
| 202121021978 | Dr. MRM. Veeramanickam | IT | 15-06-2021 | A Method of Improving Power Output of the Exiting Wind Farm by adding New Wind Turbines |
| 202141016449 | Dr. Nagendra Panini Challa<br>Dr. DV Naga Raju<br>Prof. PV Rama Raju | IT | 07-04-2021 | A Method For Designing and Auto-Emailing E-Certificates |
| 353839-001 | N Srinivasa Rao | ME | 27-11-2021 | Milk Overflow Detector |
| 353070-001 | V Lakshmi Narayana | ME | 13-11-2021 | Alphabetic Watch for Kids |
| 348726-001 | B. Satya Krishna<br>Mr. K. Raghavendra Sai | ME | 01-09-2021 | Integrated Airless Wheel |

# *Funded R & D Projects*

| S.No. | Sanction File No | Name of the Project | Name of the Staff | Dept | Total Amount Sanctioned in Lakhs |
|---|---|---|---|---|---|
| 1 | File No. TAR/2021/000118 | Financial Sanction under Teacher Associateship for Research Excellence (TARE) | Dr. Ch. Hari Krishna, SVECW(A)<br>Dr. Vijay Ravula , International Advanced Research Center for Powder Metallurgy and New Materials, (ARCI), HYD | ME | 1830000 |
| 2 | F. No.67- 5 6 / IDC / GOC / PoLiCy -2 / 2020-21 | ICRASES - International Conference | PI: Dr. P Kiran Sree<br>CO PI: Dr. M Sudheer | CSE | 50000 |

# *Details of Publications*

## Journals:


[1]. Pokkuluri, K. S., & Nedunuri, S. S. S. N. U. D. (2021). A secure cellular automata integrated deep learning mechanism for health informatics. International Arab Journal of Information Technology, 18(6), 782-788. doi:10.34028/iajit/18/6/5

[2]. Silpa, N., & Maheswara Rao, V. V. R. (2021). Enriched big data pre-processing model with machine learning approach to investigate web user usage behaviour. Indian Journal of Computer Science and Engineering, 12(5), 1248-1256. doi:10.21817/INDJCSE/2021/V12I5/211205050

[3]. Pamarthi, N., & Rao, N. N. (2021). Exponential ant-lion rider optimization for privacy preservation in cloud computing. Web Intelligence, 19(4), 275-293. doi:10.3233/WEB-210473

[4]. Ravuri, V., Terlapu, S. K., & Nayak, S. S. (2021). Performance evaluation of compressive sensing matching pursuit backtracking iterative hard thresholding algorithm for improving reconstruction. Journal of Intelligent and Fuzzy Systems, 40(4), 5777-5786. doi:10.3233/JIFS-189417

[5]. Varma, S. D. K., Obulesh, Y. P., & Saibabu, C. (2021). A co-ordinated ride through capability and power quality enhancement scheme for grid tied PMSG based wind energy. International Journal of Renewable Energy Research, 11(2), 535-545.

[6]. Mohana sundaram, K., Boopathi, C. S., Pandian, A., Kadali, K. S., Sathyamurthy, R., Anandhraj, P., & Madhu, B. (2021). Predator–Prey based firefly optimization for PV module parameters extraction. Energy Reports, 7, 609-615. doi:10.1016/j.egyr.2021.07.121

[7]. Srikanth, M. V., & Yadaiah, N. (2021). Analytical tuning rules for reduced-order active disturbance rejection control with FOPDT models through multi-objective optimization and multi-criteria decision-making. ISA Transactions, 114, 370-398. doi:10.1016/j.isatra.2020.12.035

[8]. K, V. S. P., Peddapati, S., & Naresh, S. (2021). A new fault-tolerant MLI - investigating its skipped level performance. IEEE Transactions on Industrial Electronics, doi:10.1109/TIE.2021.3062259

[9]. Nagaraju, C., Hari Krishna, C., Kiran, K. R. V., & Dandamudi, P. S. (2021). An intelligent system for predicting roll pressure in the cold rolling of Ti6Al4V. Engineering Research Express, 3(3) doi:10.1088/2631-8695/ac25e6

[10]. Malleswararao Battina, N., Vanthala, V. S. P., & Chirala, H. K. (2021). Influence of tool pin profile on mechanical and metallurgical behavior of friction stir welded AA6061-T6 and AA2017-T6 tailored blanks. Engineering Research Express, 3(3) doi:10.1088/2631-8695/ac1a5a

[11]. Sridhar, P., & Ganapuram, S. (2021). Morphometric analysis using fuzzy analytical hierarchy process (FAHP) and geographic information systems (GIS) for the prioritization of watersheds. Arabian Journal of Geosciences, 14(4) doi:10.1007/s12517-021-06539-z

[12]. Subba Rao, B. V., Kanakam, A., & Yedlapalli, P. (2021). Representable autometrized semialgebra. Thai Journal of Mathematics, 19(4), 1267-1272.

## Conferences:

1. Sree, P. K., & Usha Devi, N. (2021). DLCDI: A novel deep learning mechanism for chronic diseases identification. Intelligent information retrieval for healthcare systems (pp. 65-92)
2. Priyadarsini, K., Karthik, S., Malathi, K., & Rao, M. V. V. R. (2021). Impact of COVID-19 on IIoT. Industrial internet of things (IIoT): Intelligent analytics for predictive maintenance (pp. 321-348) doi:10.1002/9781119769026.ch13
3. Kurada, R. R., Ramu, Y., & Pattem, S. (2021). Lessoning geospatial visualizations on real-time data. Paper presented at the CSITSS 2021 - 2021 5th International Conference on Computational Systems and Information Technology for Sustainable Solutions, Proceedings, doi:10.1109/CSITSS54238.2021.9683776
4. Kamarajugadda, K. K., Movva, P., Raju, M. N., Kant, S. A., & Thatavarti, S. (2021). IoMT with cloud-based disease diagnosis healthcare framework for heart disease prediction using simulated annealing with SVM, Smart Sensors for Industrial Internet of Things pp 115–126 doi:10.1007/978-3-030-52624-5_8
5. Kandula, B. S., Kalluru, P. V., & Inty, S. P. (2021). Design of area efficient VLSI architecture for carry select adder using logic optimization technique. Computational Intelligence, 37(3), 1155-1165. doi:10.1111/coin.12347
6. Krishna, D. M., Sahu, S. K., & Srinivasa Raju, G. R. L. V. N. (2021). MLRNet: Skin lesion segmentation using hybrid gaussian guided filter with CNN. Paper presented at the Proceedings of the 5th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2021, 1337-1343. doi:10.1109/ICECA52323.2021.9676020
7. Karumuri, A., & Medapati, P. K. (2021). Low-power and high-speed 2-4 and 4-16 decoders using modified gate diffusion input (M-GDI) technique doi:10.1007/978-981-15-3828-5_10 , Microelectronics, Electromagnetics and Telecommunications pp 79–91

8. Kumar, M. P., Veer Raju, V., & Rajesh Kumar, P. (2021). Image fusion of X-ray mammography using weighted averaging GA-based SWT technique doi:10.1007/978-981-15-3828-5_66 , Smart Intelligent Computing and Applications, Volume 2 pp 543–552
9. Raju, K. M., & Srinivas Rao, V. (2021). Escalation of energy performance in many user-several inputs and several output system with spectral ability compulsion doi:10.1007/978-981-15-3828-5_24
10. Raju Kalidindi, S. N., Terlapu, S. K., & Krishna, M. V. (2021). Implementation of efficient reconfigurable FIR filter with control logic for 5G applications. Soft Computing, 25(15), 10509-10518. doi:10.1007/s00500-021-05997-7
11. Ravuri, V., Terlapu, S. K., & Nayak, S. S. (2021). Adaptive level cross sampling for next-generation data-driven applications doi:10.1007/978-981-15-3828-5_65
12. Sairam Vamsi, T., Sudheer Kumar, T., & Vamsi Krishna, M. (2021). Impact analysis of black hole, flooding attacks and enhancements in MANET using SHA-3 Keccak Algorithm doi:10.1007/978-981-15-3828-5_12
13. Terlapu, S. K., Subba Rao, M. V., Chowdary, P. S. R., & Satapaty, S. C. (2021). Design and analysis of koch fractal slots for ultra-wideband applications doi:10.1007/978-981-15-3828-5_77
14. Vegesna, N., Yamuna, G., & Sudheer Kumar, T. (2021). Synthesis of non-uniformly spaced linear antenna array using firefly algorithm doi:10.1007/978-981-15-3828-5_71
15. Subbarao, M. V., Terlapu, S. K., Chakravarthy, V. V. S. S. S., & Satapaty, S. C. (2021). Pattern recognition of time-varying signals using ensemble classifiers doi:10.1007/978-981-15-3828-5_76
16. Varma, R. A. C., Subbarao, M. V., Varma, D. R., & Raju, G. R. L. V. N. S. (2021). High-throughput VLSI architectures for VLSI signal processing doi:10.1007/978-981-15-3828-5_37
17. Venkata Subbarao, M., & Samundiswary, P. (2021). Automatic modulation classification using cumulants and ensemble classifiers doi:10.1007/978-981-16-0443-0_9
18. Garapati, D. P., Swaroop, K. P., & Jegathesan, V. (2021). Performance analysis of multi-level inverter using phase disposition with various carrier signal arrangements doi:10.1007/978-981-15-8221-9_184
19. Sarathbabu Duvvuri, S. S. R., & Padmaja, S. M. (2021). Non-linear observer based stator inter-turn short-circuit fault detection in 3-Φ induction motor. Paper presented at the Proceedings of 2021 21st International Symposium on Power Electronics, Ee 2021, doi:10.1109/Ee53374.2021.9628215
20. Duvvuri, S. S. (2021). A critical evaluation and experimental verification of stator inter-turn short-circuit fault detection and diagnosis in 3-pdbl induction motors. Paper presented at the Proceedings of 2021 IEEE International Conference on Power, Electrical, Electronic and Industrial Applications, PEEIACON 2021, 63-66. doi:10.1109/PEEIACON54708.2021.9929489
21. Duvvuri, S. S. (2021). Realistic behavior of electrical faults in 3-pdbl induction motor. Paper presented at the Proceedings of 2021 IEEE International Conference on Power, Electrical, Electronic and Industrial Applications, PEEIACON 2021, 67-70. doi:10.1109/PEEIACON54708.2021.9929614
22. Duvvuri, S. S., Garapati, D. P., & Siripurapu, G. (2021). Parameter sensitivity analysis for 3-Φ synchronous reluctance motor: A critical evaluation. Paper presented at the 2021 18th International Scientific Technical Conference Alternating Current Electric Drives, ACED 2021 - Proceedings, doi:10.1109/ACED50605.2021.9462312

23. Bharathi, G., Kantarao, P., & Srinivasarao, R. (2021). Control and optimization of DC microgrid power management with energy storage devices and photovoltaic system. Paper presented at the Proceedings of the 5th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2021, 60-69. doi:10.1109/ICECA52323.2021.9676160
24. Srikanth, M. V., & Yadaiah, N. (2021). A magnitude optimum approach for tuning reduced-order ADRC with FOPDT models. Paper presented at the 2021 7th Indian Control Conference, ICC 2021 - Proceedings, 46-51. doi:10.1109/ICC54714.2021.9703133 Retrieved from www.scopus.com
25. Swaroop, K. P., Garapati, D. P., Nalli, P. K., & Duvvuri, S. S. (2021). Service restoration in distribution system using breadth-first search technique. Paper presented at the Proceedings of the 7th International Conference on Electrical Energy Systems, ICEES 2021, 403-407. doi:10.1109/ICEES51510.2021.9383670
26. Swaroop, K. P., Sarathbabu Duvvuri, S. S. S. R., & Pavani, K. (2021). Dynamic voltage restorer using SRF controller to mitigate Sag/Swell in industrial drive applications. Paper presented at the 2021 18th International Scientific Technical Conference Alternating Current Electric Drives, ACED 2021 - Proceedings, doi:10.1109/ACED50605.2021.9462272
27. Koduri, O., Pranathi, B. S., Varma, S. D. K., & Duvvuri, S. S. (2021). Islanding detection for utility-grid interfaced PV inverter using wavelet packet transform. Paper presented at the 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies, GUCON 2021, doi:10.1109/GUCON50781.2021.9573733
28. Koduri, O., Varma, S. D. K., & Duvvuri, S. S. (2021). Islanding detection of utility-grid interfaced PV inverter with OVP/UVP and OFP/UFP protection relays. Paper presented at the 2021 Asian Conference on Innovation in Technology, ASIANCON 2021, doi:10.1109/ASIANCON51346.2021.9544744
29. Palleswari, Y. T. R., Siva, A., Kadali, K., & Bhukya, R. (2021). Retraction: Performance of CH-DVR during phase angle jump and fault riding. Journal of Physics: Conference Series, 1916(1) doi:10.1088/1742-6596/1916/1/012011
30. Bhukya, R., Kadali, K., Siva, A., Palleswari, Y. T. R., Pragaspathy, & Saravanan, S. (2021). Retraction: Experimental validation with FPGA controller to A switched-capacitor interleaved bidirectional DC-DC converter for A renewable energy storage systems. Journal of Physics: Conference Series, 1916(1) doi:10.1088/1742-6596/1916/1/012012
31. Bhukya, R., Nalli, P. K., Kadali, K. S., & Bade, M. C. (2021). Designing of lithium - ion battery pack rechargeable on a hybrid system with battery management system (BMS) for DC loads of low power applications –A prototype model. Paper presented at the Journal of Physics: Conference Series, , 2089(1) doi:10.1088/1742-6596/2089/1/012017
32. Ganesh, M. S. R., Kadali, K. S., Bhukya, R., Palleswari, Y. T. R., Siva, A., & Pragaspathy, S. (2021). Design of decision based recursive weighted median filter with exponential weights. Paper presented at the Journal of Physics: Conference Series, , 2089(1) doi:10.1088/1742-6596/2089/1/012016
33. Radhika, A., Thenmozhi, G., Suresh Babu, B., & Vidhya, V. (2021). Power conversion in PMSG wind energy conversion systems using trans Z source inverter. Paper presented at the 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021, doi:10.1109/ICAECA52838.2021.9675633
34. Suresh Babu, B. (2021). Adaptive dragonfly optimization based placement of capacitor banks for voltage stability enhancement in distribution networks. Strategic Planning for Energy and the Environment, 40(1), 25-38. doi:10.13052/spee1048-5236.4012

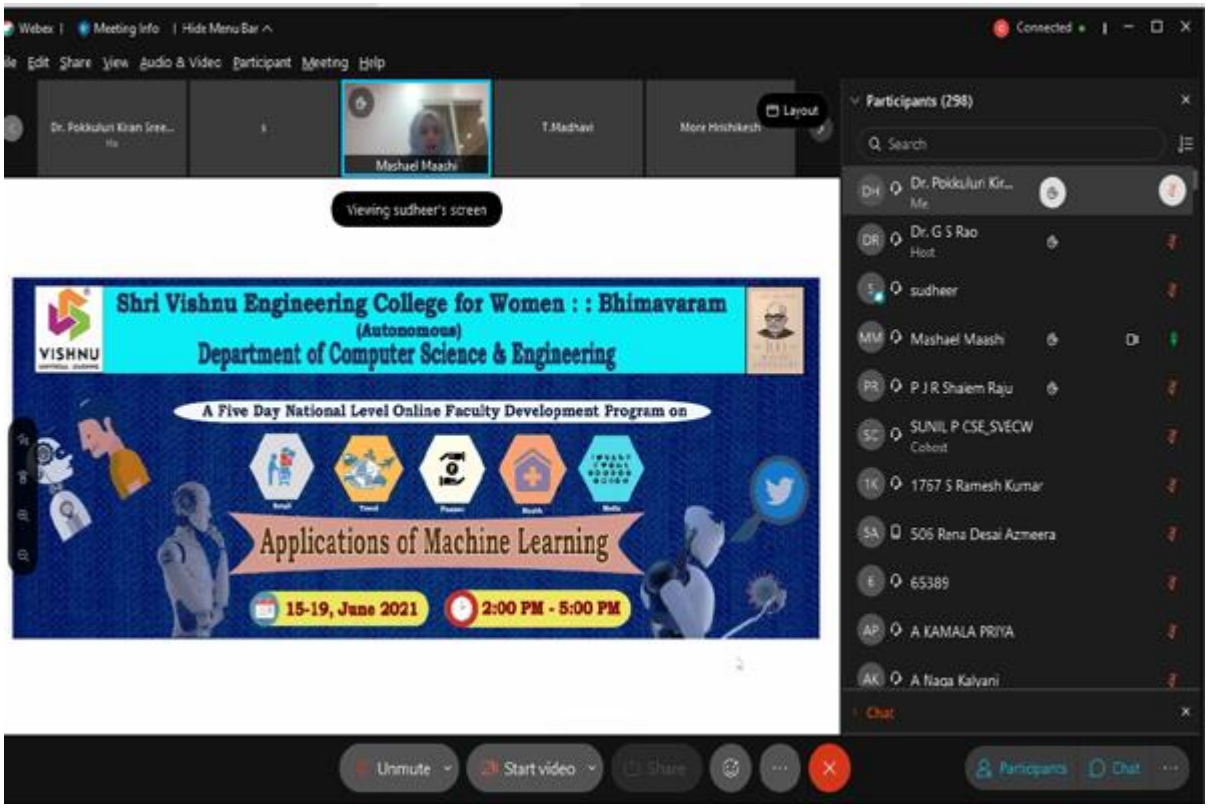
35. Suresh Babu, B. (2021). Retraction: TLBO based power system optimization for AC/DC hybrid systems. Journal of Physics: Conference Series, 1916(1) doi:10.1088/1742-6596/1916/1/012023
36. Swamy, B., Veeraiah, N., Nagaraju, E., & Chakravarthi, B. N. C. V. (2021). Review of non conventional power electronic converters for solar PV with non-linear loads. Paper presented at the Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021, 358-361. doi:10.1109/ICCES51350.2021.9489077
37. Jonnalagadda, V., Sugavanam, K. R., Mohanasundaram, K., Kuppuswamy, C. L., Bhukya, R., & Kadali, K. S. (2021). Retraction: Modified zeta converter based on ANFIS controller using MPPT PV system. Journal of Physics: Conference Series, 1916(1) doi:10.1088/1742-6596/1916/1/012126
38. Nalli, P. K., Kadali, K. S., Bhukya, R., Palleswari, Y. T. R., Siva, A., & Pragaspathy, S. (2021). Design of exponentially weighted median filter cascaded with adaptive median filter. Paper presented at the Journal of Physics: Conference Series, , 2089(1) doi:10.1088/1742-6596/2089/1/012020
39. Nalli, P. K., Kadali, K. S., Bhukya, R., Rajeswari, V., & Garapati, D. P. (2021). Experimental validation for A nine-switched 3-phase multilevel inverter (MLI) with a photovoltaic (PV) source of array. Paper presented at the Journal of Physics: Conference Series, , 2089(1) doi:10.1088/1742-6596/2089/1/012021
40. "Adinarayana, S., & Ilavarasan, E. (2021). A hybrid imbalanced data learning framework to tackle opinion imbalance in movie reviews Communication Software and Networks, Lecture Notes in Networks and Systems 134, https://doi.org/10.1007/978-981-15-5397-4_46"
41. Jethani, S., Jain, E., Thomas, I. S., Pechetti, H., Pareek, B., Gupta, P., . . . Singal, G. (2021). Surveillance system for monitoring social distance, Advanced Computing. IACC 2020. Communications in Computer and Information Science, vol 1367. Springer, Singapore. https://doi.org/10.1007/978-981-16-0401-0_8

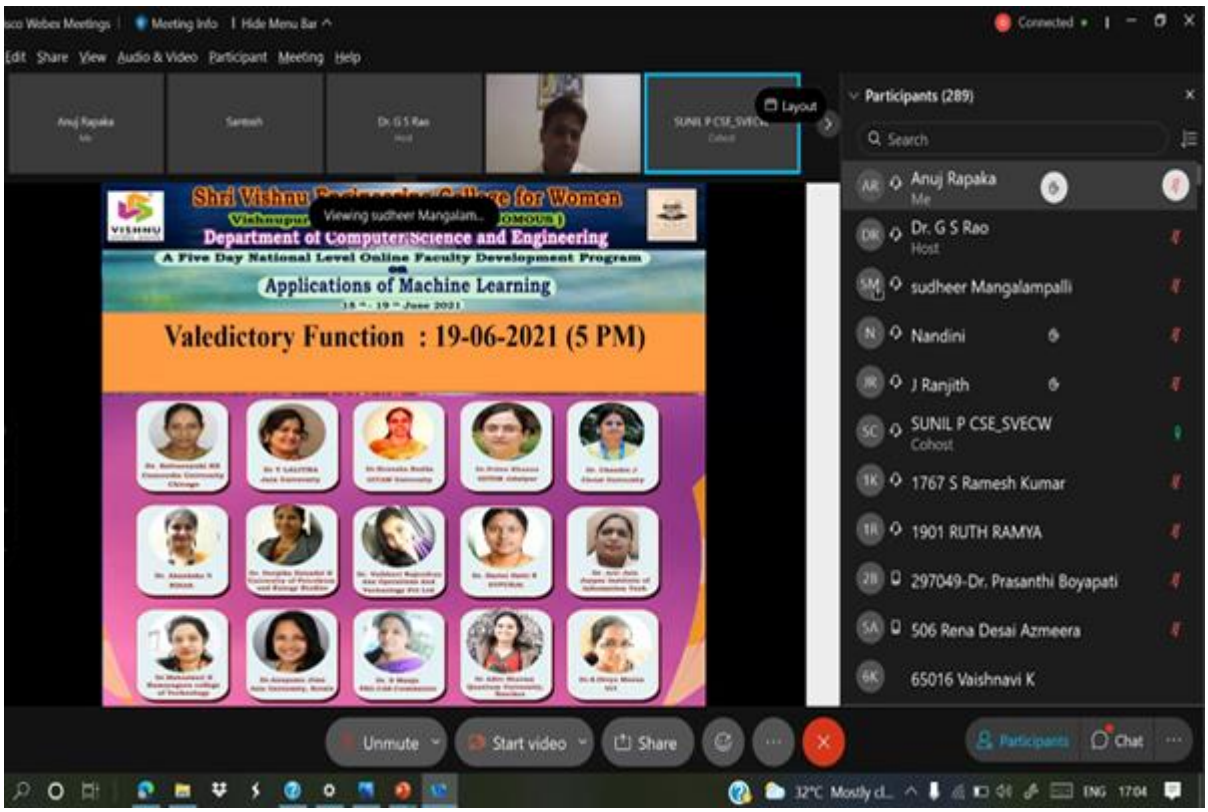
## Book Chapter :

1. Mann, G., Kadiyala, K. G., Thirumal, M., Tiwari, A. K., & Datta, A. (2021). Receptor mapping using methoxy phenyl piperazine derivative: Preclinical PET imaging. Bioorganic Chemistry, 117 doi:10.1016/j.bioorg.2021.105429

****

**June 15, 2021 :** A Five Day National Level Online FDP On “Applications Of Machine Learning” @ CSE Dept



**July 25, 2021 :** VISHNU IMPETUS – A Personal Focus on Students' Placements during Challenging Times @ Visakhapatnam

**July 26, 2021 :** VISHNU IMPETUS – A Personal Focus on Students' Placements during Challenging Times @ Amalapuram

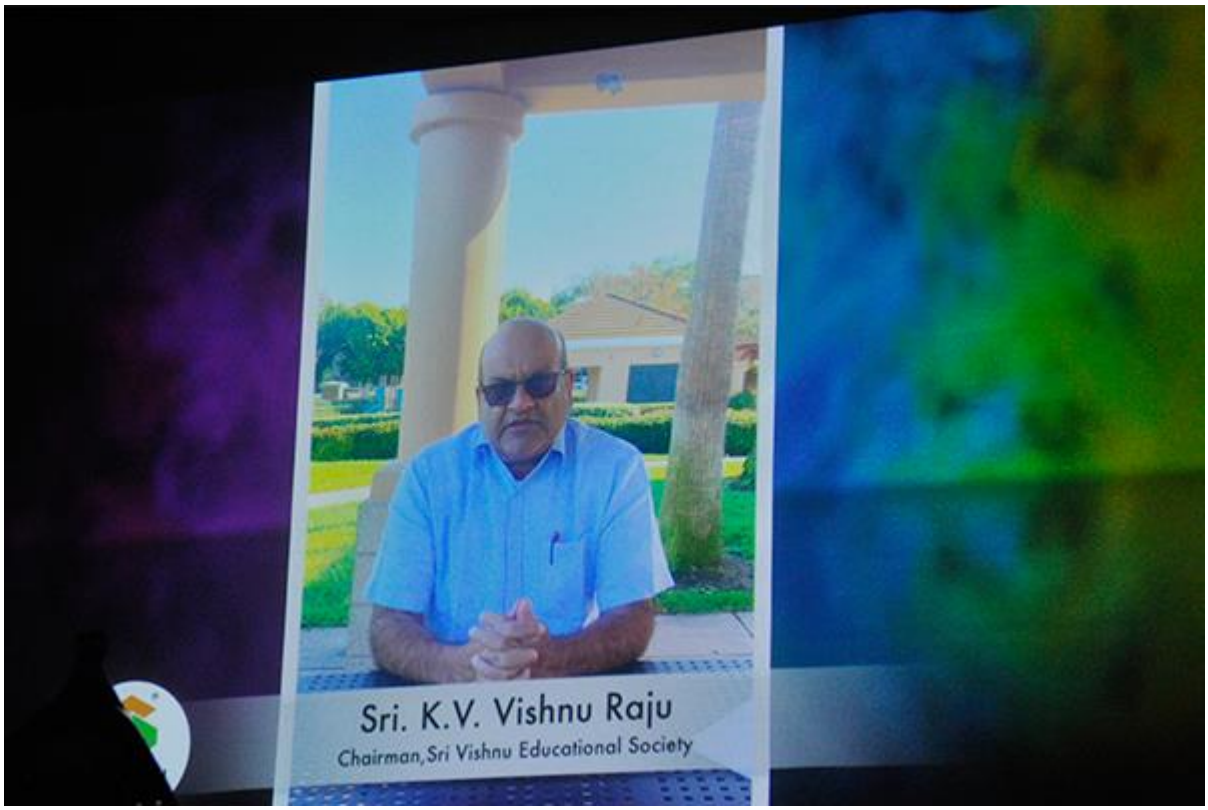
**July 26, 2021:** VISHNU IMPETUS – A Personal Focus on Students' Placements during Challenging Times @ Kakinada

**July 26, 2021:** VISHNU IMPETUS – A Personal Focus on Students' Placements during Challenging Times @ Rajahmundry

**July 27, 2021:** VISHNU IMPETUS – A Personal Focus on Students' Placements during Challenging Times @ SVECW

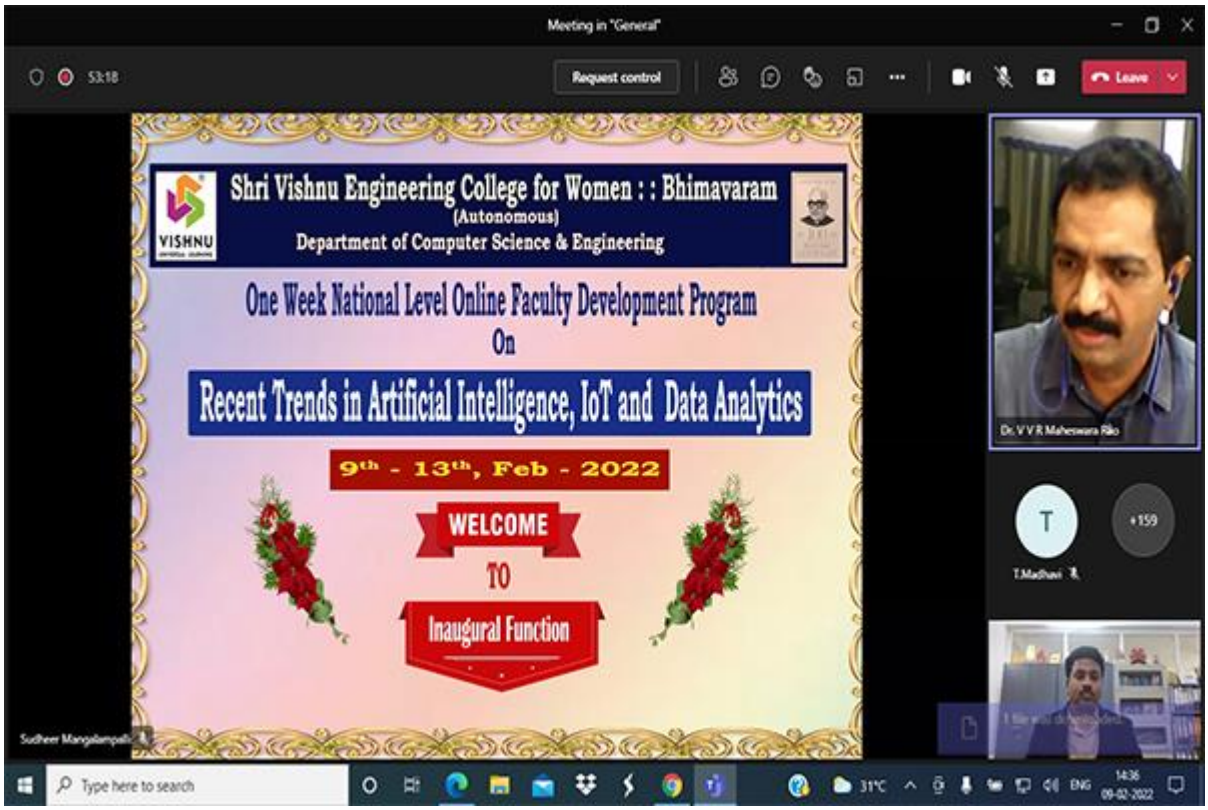
**July 29, 2021:** VISHNU IMPETUS – A Personal Focus on Students' Placements during Challenging Times @ Vijayawada

**Dec 11, 2021:** Inauguration Of I B. Tech. Class Work 2021-22

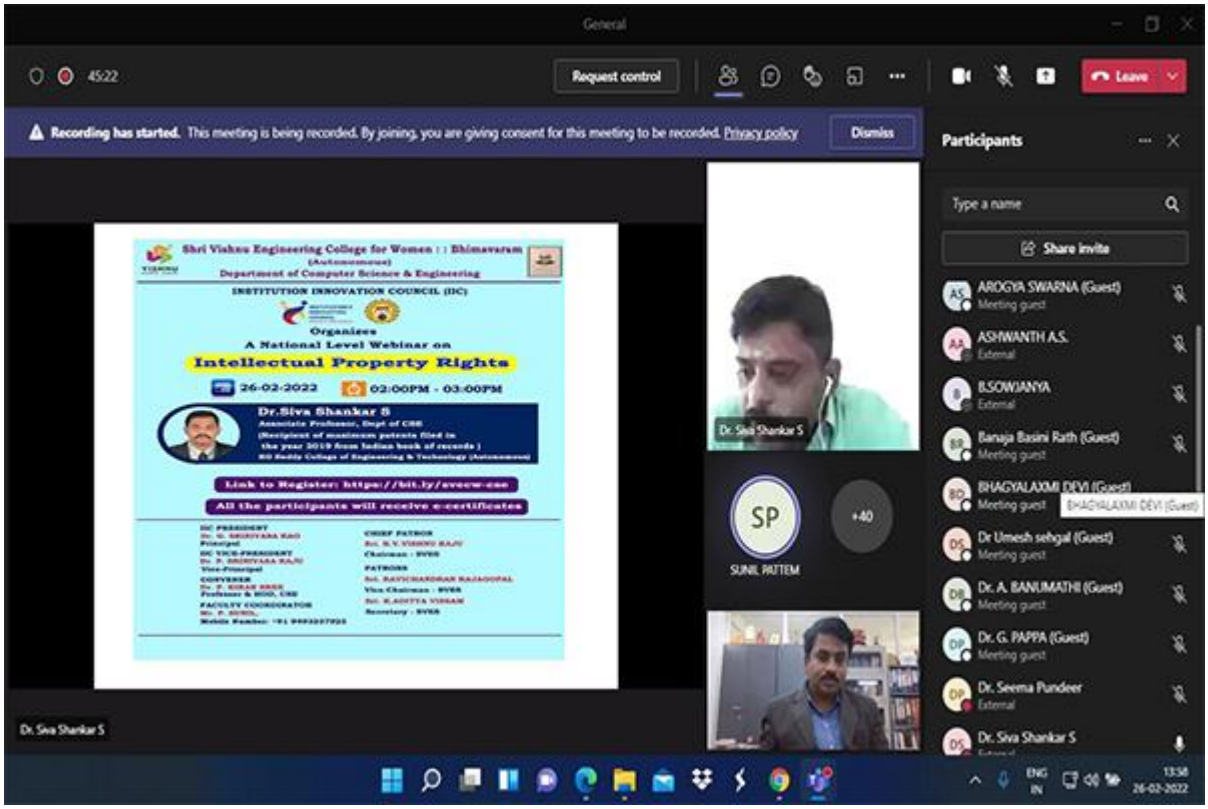



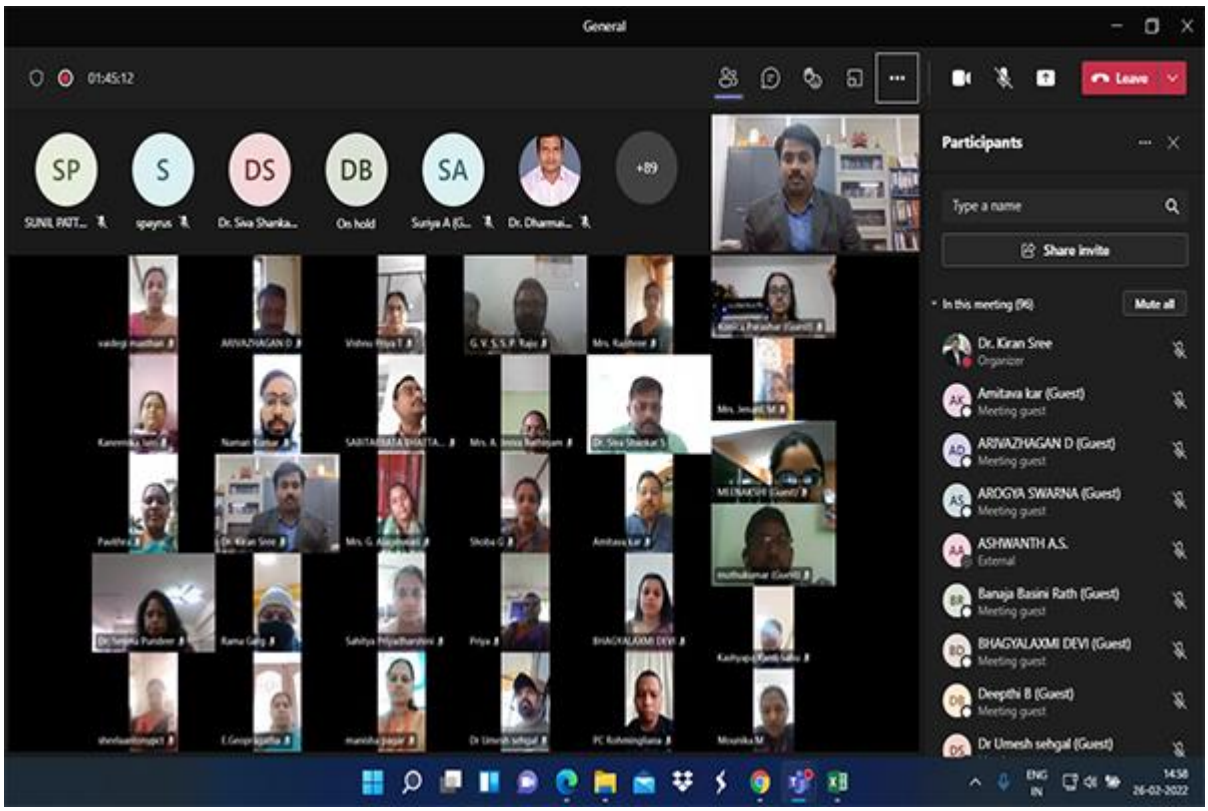
**Dec 3, 2021:** ATL project Distribution Event on International Day of Person with Disabilities @ ATL


**Feb 9, 2022:** One Week National Level Online FDP on “Recent Trends in AI, IoT, and Data Analytics” @ CSE Dept

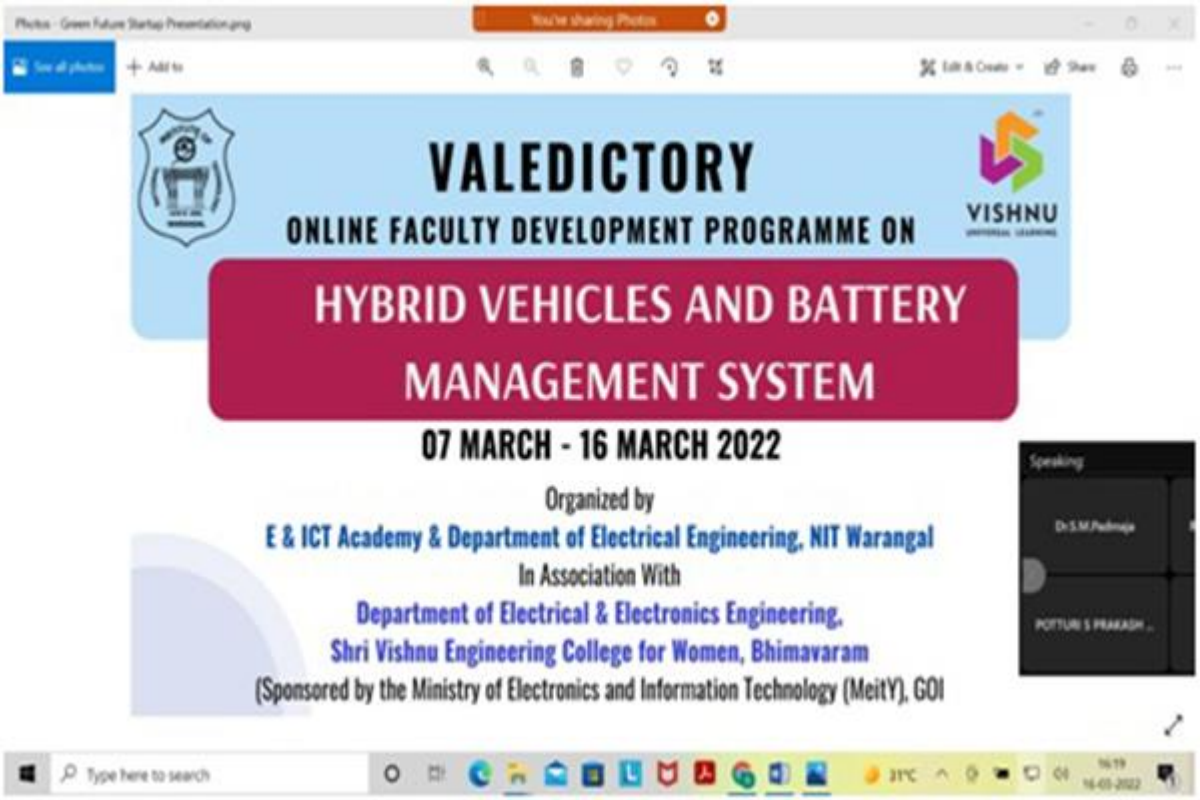


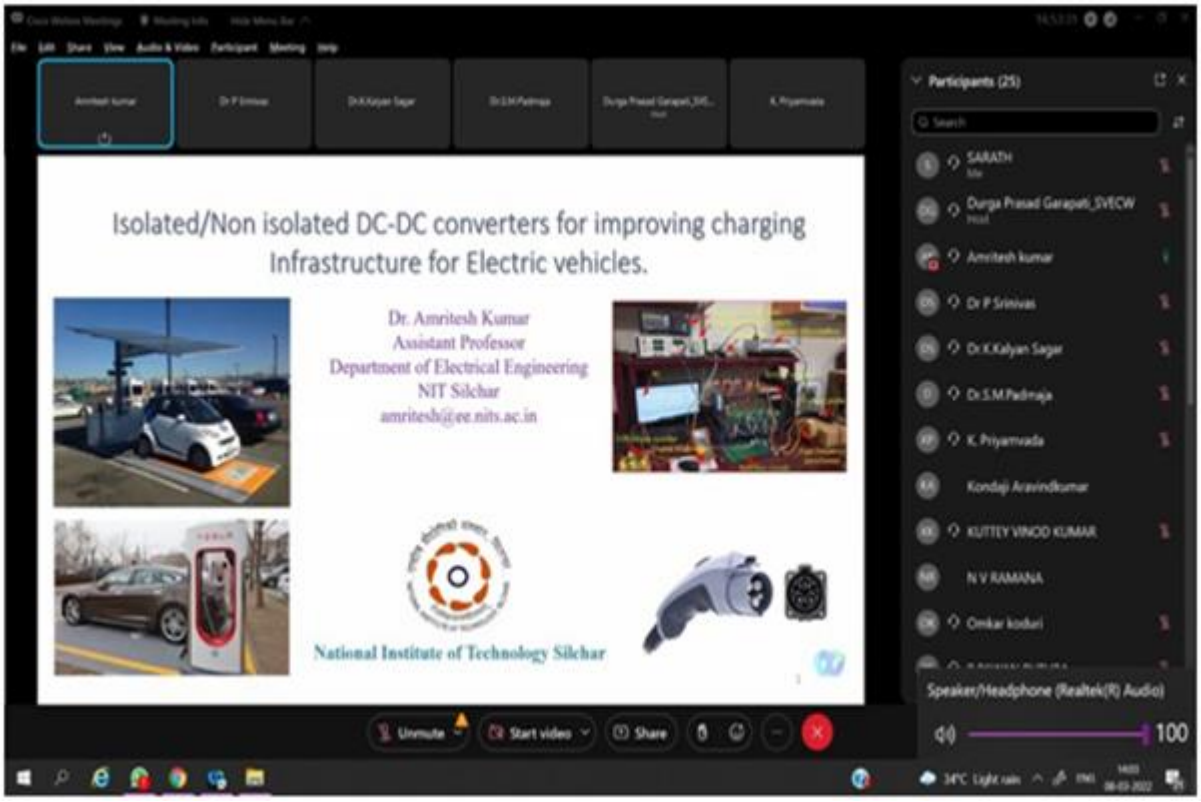

**Feb 26, 2022:** A National Level Webinar on “Intellectual Property Rights” @ CSE Dept



**March 7, 2022:** Ten Day FDP on Hybrid Vehicles and Battery Management Systems (HVBMS) @ EEE Dept



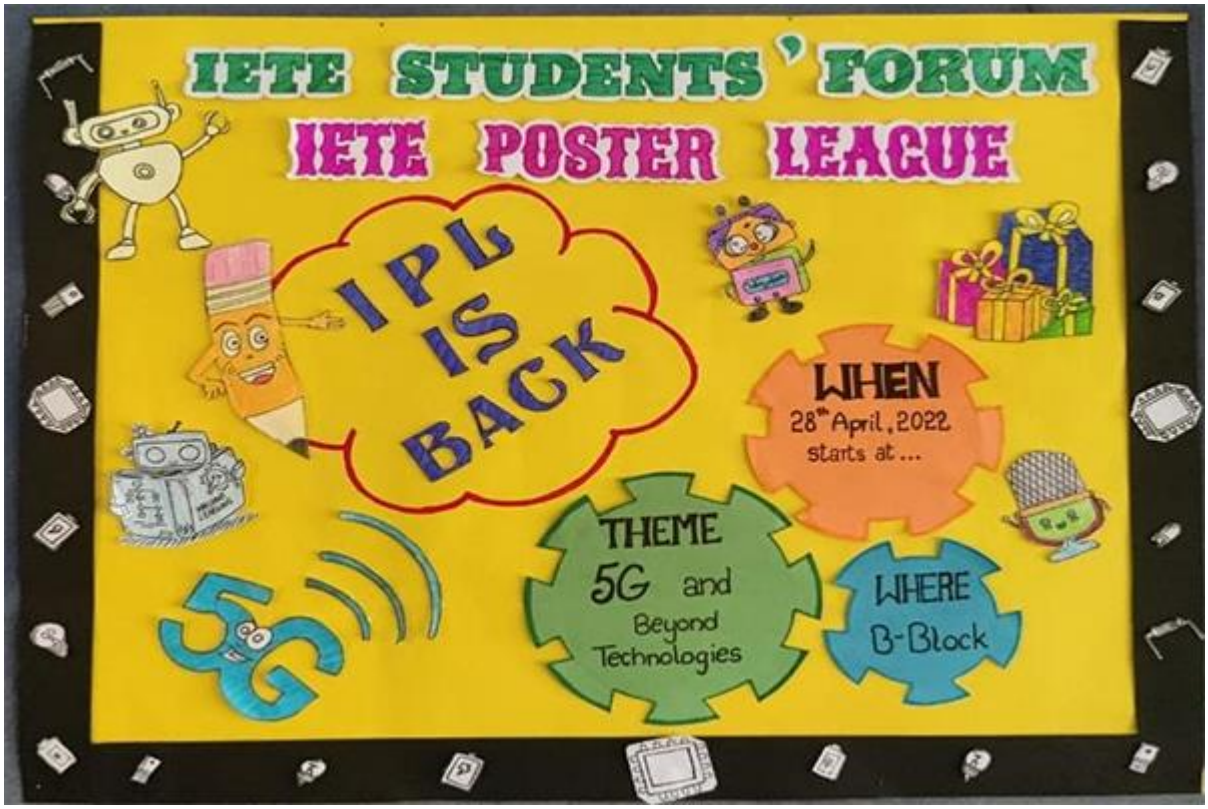



**March 12, 2022:** Celebration of Graduation Day – Vishnotsav


**March 29, 2022:** AICTE Sponsored Online International Conference on “Role of AI & Sustainable Engineering in Driving Smart Citi

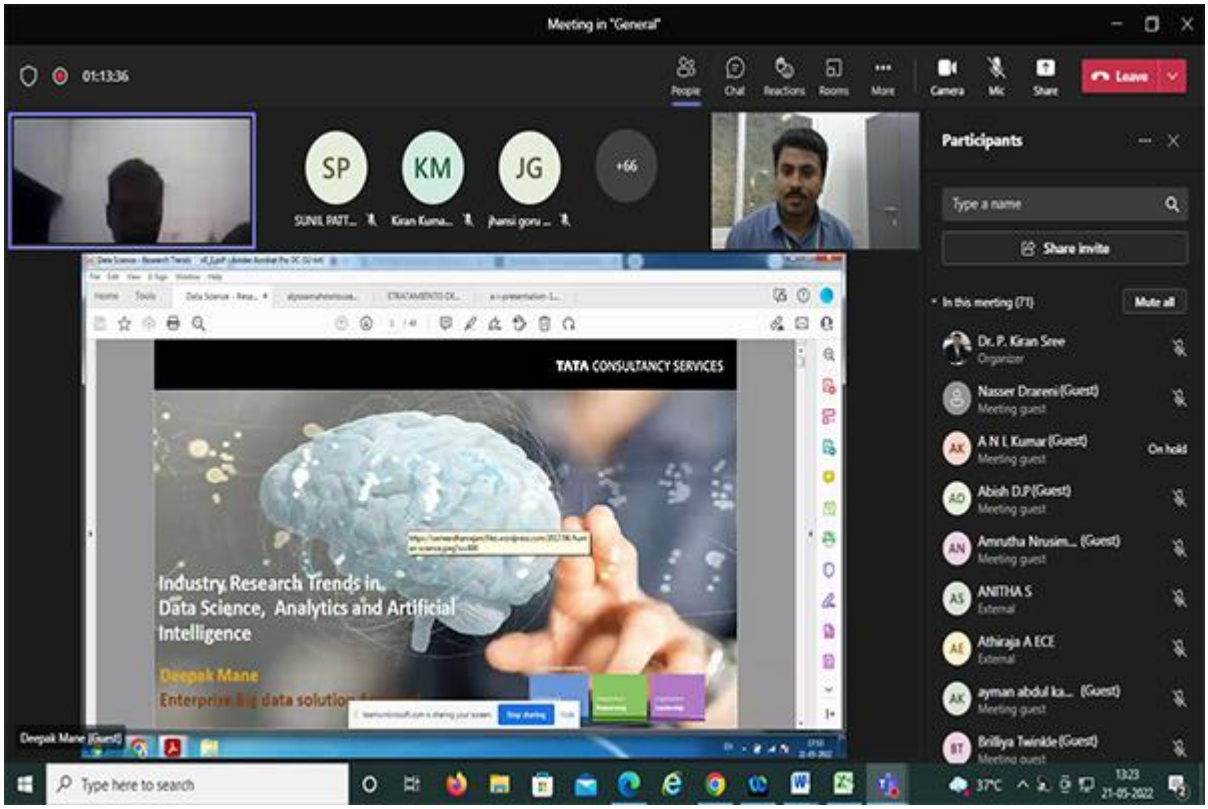

**April 7, 2022:** Five Day Student Competency Development Program on “Electric and Hybrid Vehicle Engineering” @ EEE Dept

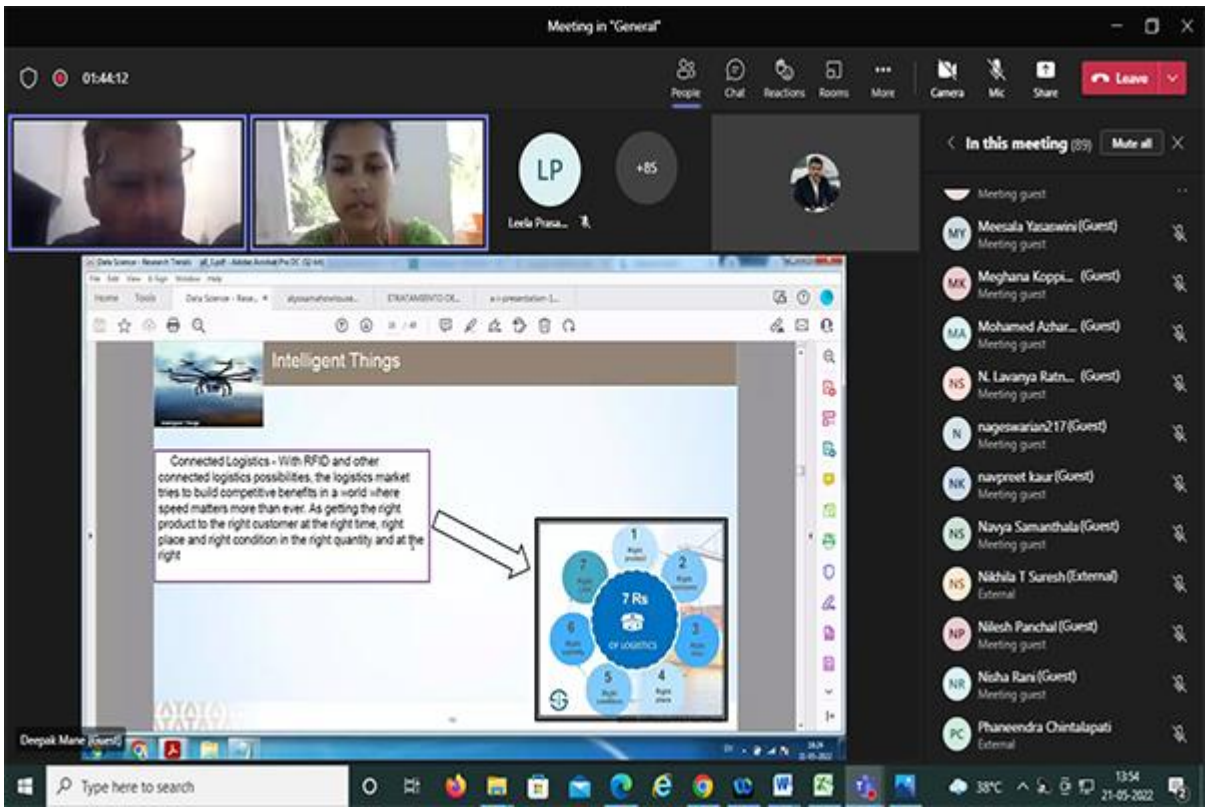

**April 28, 2022:** IPL-IETE Poster League @ IETE Students' Forum




**May 20, 2022:** Students Interaction with Sri. B. V. Jagadeesh, MD, KAAJ Ventures, Smt. Anuradha Jagadeesh, KonnectMe


**May 21, 2022:** A Webinar on Tools and Technologies in Artificial Intelligence @ CSE Dept



**May 21, 2022:** Students Interaction with Prof. Chetan Singh Solanki, Professor at IIT-Bombay