



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Faculty Participations:

Paper publications:

- 1) **Dr.K.SATYANARAYANA** published paper entitled with, “**AN ADVANCED QUADRATIC BOOST CONVERTER FOR MAXIMIZING OUTPUT POWER FOR SOLAR APPLICATIONS**” in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 2) **Dr.K. SATYANARAYANA** published paper entitled with “**OPTIMIZED TRANSFORMERLESS QUADRATIC BUCK BOOST CONVERTER WITH CONTINUOUS CURRENT FLOW AND FUZZY LOGIC BASED CONTROL STRATEGY**” in International journal of Marketing Managemengt (IJMM) Volume 13, Issue 1, 2025, ISSN 2321-2152.
- 3) **Dr.G.NARESH** published paper entitled with “**FUZZY LOGIC-BASED SENSORLESS SPEED CONTROL AND HARMONIC REDUCTIONIN SYN-REL MOTOR DRIVE FOR SOLARASSISTED ELECTRIC VEHICLES**” in International journal of Marketing Managemengt (IJMM) Volume 13, Issue 1, 2025
- 4) **Dr.G.NARESH** published paper entitled with “**SMART CHARGING SYSTEM FOR ELECTRIC VEHICLES USING A TRANSFORMERLESS BRIDGELESS CONVERTER**” in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 5) **Dr.G.NARESH** published paper entitled with “**ENERGY MANAGEMENT FOR BATTERY/SUPER CAPACITOR HYBRIDSYSTEMS USING A THREE-LAYER NEURAL NETWORK**” in International Journal of Engineering Research and Science &Technology(IJERST), Vol.21,Issue 1,2025, ISSN 2319-5991.
- 6) **Mr. K.V DURGA PRASAD** published paper entitled with “ **PERFORMANCE EVALUATION OF MPPT TECHNIQUES FOR A FLEXIBLE ROOFTOP HALF-CUT PHOTOVOLTAIC WPT SYSTEM FOR IN-MOTION EV CHARGING**” in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 7) **Mr. K. V. DURGA PRASAD** published paper entitled with “**ADVANCED POWER ROUTING AND CONTROL FOR PV-BATTERY SYSTEMS USING FUZZY LOGIC AND HIGH VOLTAGE RIDETHROUGH**” in IRACST – International Journal of Computer Networks and Wireless Communications (IJCNCW), Vol.15, Issue No 1, 2025, ISSN: 2250-3501.
- 8) **Mr. K. V. DURGA PRASAD** published paper entitled with “**ADVANCED POWER ROUTING AND CONTROL FOR PV-BATTERY SYSTEMS USING FUZZY LOGIC AND HIGH VOLTAGE RIDETHROUGH**” in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- 9) **Mr.S.ASHOK REDDY** published paper entitled with **“HIGH CURRENT DENSITY DC-DC CONVERTER WITH MODIFIED FUZZY LOGIC CONTROL FOR EV CHARGING”** in International Journal of Engineering Research and Science & Technology(IJERST), Vol.21, Issue 1, 2025, ISSN 2319-5991.
- 10) **Mr. S. ASHOK REDDY** published paper entitled with **“ADAPTIVE ENERGY MANAGEMENT AND RIPPLE REDUCTION FOR NON - LINEAR CONVERTERS USING DECOMPOSITION CONTROL AND BATTERY BACKUP”** in International journal of Marketing Managementt (IJMM) Volume 13, Issue 1, 2025, ISSN 2321-2152.
- 11) **Mr.M.VEERA CHANDRA KUMAR** published paper entitled with **“MITIGATING HARMONIC DISTORTION IN A PV BASED EV CHARGING STATION VIA ANN “** in International journal of Marketing Managementt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 12) **Mr. M. V. CHANDRA KUMAR** published paper entitled with **“ DESIGN AND IMPLEMENTATION OF A MULTIPORT DCDC CONVERTER FOR SMART GRID APPLICATIONS”** in International journal of Marketing Managementt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 13) **Mrs.G.DURGA DEVI** published paper entitled with **“PERFORMANCE ANALYSIS OF A PMSG-BASED WIND-SOLAR HYBRID SYSTEM WITH BATTERY STORAGE FOR CONTINUOUS LOAD SUPPLY”** in International journal of Marketing Managementt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 14) **Mrs. CH.V.V. MANGA LAKSHMI** published paper entitled with **“AUTOMATIC LIGHTING SYSTEM FOR DAY AND NIGHT IN MUNICIPAL PARKS FED BY REVOLVING GATE MECHANISM POWER GENERATION”** in International journal of Marketing Managementt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 15) **Mrs.CH.V.V.MANGA LAKSHMI** published paper entitled with **“31-LEVEL MULTILEVEL INVERTER TOPOLOGY FOR STAND-ALONE MICROGRID USING FUZZY LOGIC”** in International journal of Marketing Managementt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 16) **Mrs. M. MANGA LAKSHMI** published paper entitled with **“ENHANCED SMART GRID STABILITY USING VIRTUAL SYNCHRONOUS GENERATOR WITH FUZZY LOGIC CONTROLLER”** in International journal of Marketing Managementt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 17) **Mrs. V. R. SAI VALLI** published paper entitled with **“SOLAR-BASED ELECTRIC VEHICLE CHARGING SYSTEM WITH ARTIFICIAL NEURAL NETWORK CONTROLLER FOR BIDIRECTIONAL OPERATIONS G2V & V2G”** in International journal of Marketing Management (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- 18) **Ms. P. SANDHYA** published paper entitled with **“ENHANCED THREE-LEVEL CLLC RESONANT BIDIRECTIONAL DC–DC CONVERTER WITH FUZZY LOGIC CONTROL FOR EV CHARGING IN DC MICROGRIDS”** in International Journal of Engineering Research and Science & Technology(IJERST), Vol.21, Issue 1, 2025, ISSN 2319-5991.
- 19) **Mr. D.PRAKASARAO** published paper entitled with **“A PV FED SINGLE STAGE NINE LEVEL BOOST INVERTER FOR GRID CONNECTED APPLICATIONS”** in IJASEM Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 20) **Mr. D.PRAKASARAO** published paper entitled with **“NEW CONTROL STRATEGY BASED PV STATCOM FOR MITIGATION OF POWER OSCILATION DAMPING”** in International journal of Scientific Reaearch in Engineering and Management (IJSREM), Vol.09, Issue 06 June, 2025, ISSN:2582-3930.
UGC Care.
- 21) **Mr.K.NAGAVARDHAN REDDY** published paper entitled with **“RELIABLE AND EFFICIENT SOLAR WATER PUMP WITH ADVANCED HYBRID BACKUP SYSTEM”** in International Journal of Engineerng Research and Science & Technology(IJERST), Vol.21, Issue 1, 2025, ISSN 2319-5991.
- 22) **Ms.SWARNA BHARGAVI** published paper entitled with **“ENHANCING POWER QUALITY IN INDUSTRIAL AND COMMERCIAL SITES: A FUZZY LOGIC-BASED APPROACH TO MITIGATING POWER OSCILLATIONS”** in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 23) **Mr.M.VEERA BABU** published paper entitled with **“SOLAR HOME DUST COLLECTING ROBOT WITH VACUUM SYSTEM”** in International Journal of Engineerng Research and Science & Technology(IJERST), Vol.21, Issue 1, 2025, ISSN 2319-5991.
- 24) **Ms. P. VARALAKSHMI** published paper entitled with **“DESIGN AND IMPLMENTATION OF PV GRID-SUPPORTED INVERTER WITH LVRT AND HVRT CAPABILITIES USING FEED FORWARD CONTROL STRATEGY”** in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 25) **Mr. S.NANI BABU** published paper entitled with **“ADVANCED FOUR QUADRANT CONTROL OF BLDC MOTOR FOR ELECTRIC VEHICLES USING FUZZY LOGIC”** in International journal of Marketing Managemengt (IJMM) Volume 13, Issue 1, 2025, ISSN 2321-2152.
- 26) **Mr.M.RAVI KUMAR** published paper entitled with **“MITIGATION GRID HARMONICS IN A DISTRIBUTED ENERGY RESOURCE BASED EV CHARGING STATION THROUGH**



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ADVANCED CONTROL STRATEGY” in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.

- 27) **Mrs. M.CHANDINI** published paper entitled with **“EV2EV POWER LINK: SMART ONBOARD ENERGY TRANSFER”** in International journal of Marketing Managemengt (IJMM) Volume 13, Issue 1, 2025, ISSN 2321-2152.
- 28) **Mr. CH. NARESH** published paper entitled with **“FUZZY LOGIC-BASED SENSORLESS SPEED CONTROL AND HARMONIC REDUCTIONIN SYN-REL MOTOR DRIVE FOR SOLARASSISTED ELECTRIC VEHICLES”** in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 29) **Mrs. P. PUSHPA LATHA** published paper entitled with **“SMART CONTROL APPROACHES FOR ELECTRICAL VEHICLES CHARGING USING PV MULTI-MODE CONVERTER”** in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 30) **Mr.V.GOPI** published paper entitled with **“OPTIMIZED SOLAR POWER GENERATION WITH FUZZY LOGIC BASED POWER SMOOTHING”** in International journal of Marketing Managemengt (IJMM) Volume 19, Issue 1, 2025, ISSN 2454-9940.
- 31) **Mrs.D. SANDHYA RANI** published paper entitled with **“DEVELOPMENT AND IMPLEMENTATION OF A SINGLE INDUCTOR MULTI-PORT CONVERTER FOR EV APPLICATIONS WITH ACTIVE GRID PARTICIPATION AND NETWORK-DRIVEN HARMONIC SUPPRESSION”** in International journal of Marketing Managemengt (IJMM) Volume 13, Issue 1, 2025, ISSN 2321-2152.

National / International Faculty Development Programmes/Workshops:

- **Mr.K.V.Durga prasad** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a 5day FDP on **“AI Driven Innovations in Power Electronics for Smarter Power Systems”** organized by Sasi Institute of Technology & Engineering, Tadepalligudem , held from 24.06.2025 to 28.06.2025.
- **Mr.K.V.Durga prasad** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a one week skill development program on **“SEARCH Documentation and Proposal Writing: LaTeX, IPR & Beyound”** organized by CVR Colege of Engineering, held from 23.06.2025 to 28.06.2025.
- **Mr.K.V.Durga prasad** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a FDP on **“S-Transformation”** organized by Roland institute of technology, surya vihar, berhampur, odisha-india , from 17th -20th May,2025.



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- **Mr.D.Prakasarao** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a 5day FDP on “**Advancements in signal processing using AI**” organized by Pragati Engineering College ,held from 21.04.2025 to 25.04.2025.
- **Mr.D.Prakasarao** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a 5day FDP on “**AI Driven Innovations in Power Electronics for Smarter Power Systems**” organized by Sasi Institute of Technology & Engineering, Tadepalligudem , held from 24.06.2025 to 28.06.2025.
- **Mr.D.Prakasarao** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a one week skill development program on “**SEARCH Documentation and Proposal Writing: LaTeX, IPR & Beyond**” organized by CVR College of Engineering, held from 23.06.2025 to 28.06.2025.
- **Mrs.P.Pushpa Latha** Faculty of Electrical and Electronics Engineering Department , Pragati Engineering College participated in a FDP on “**Trends Generative AI**” organized by SSN College of engineering,TN, from 27th-29th march 2025.
- **Mrs.P.Pushpa Latha** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a FDP on “**Frontiers of intelligence: Next-Gen technologies shaping the future research**” organized by Sri Sairam Engineering College,Chennai from 26.05.2025 to 30.05.2025.
- **Mrs.P.Pushpa Latha** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a FDP on “**S-Transformation**” organized by Roland institute of technology, surya vihar, berhampur, odisha-india , from 17th -20th May,2025.
- **Mrs.P.Pushpa Latha** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a FDP on “**Generative AI**” organized by Capabl.&CSI on 29th march 2025.
- **Mrs.V.R.V.S.Sai valli** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a 5day FDP on “**AI Driven Innovations in Power Electronics for Smarter Power Systems**” organized by Sasi Institute of Technology & Engineering, Tadepalligudem , held from 24.06.2025 to 28.06.2025.
- **Mrs.P.Varalakshmi** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a one week online FDP on “**Design of EV,PV &Wind Power Plants and applications of IoT:Hands on Practice**” organized by Sasi Institute of Technology & Engineering, Tadepalligudem , held from 28.04.2025 to 03.05.2025.
- **Mrs.P.Varalakshmi** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a 5day FDP on “**AI Driven Innovations in Power**



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Electronics for Smarter Power Systems” organized by Sasi Institute of Technology & Engineering, Tadepalligudem , held from 24.06.2025 to 28.06.2025.

- **Mr.S.Nanibabu** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a FDP on **“Trends in VLSI & Embedded Systems Design Technologies”** organized by Sri chandrasekharendra saraswathi viswa mahavidyalaya, kancheepuram, held on June 13, 2025.
- **Mr.S.Nanibabu** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a FDP on **“Advancements in signal processing using AI”** organized by Pragati Engineering College, held from 21.04.2025 to 25.04.2025.
- **Mr.S.Nanibabu** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a one week skill development program on **“SEARCH Documentation and Proposal Writing: LaTeX, IPR & Beyond”** organized by CVR College of Engineering, held from 23.06.2025 to 28.06.2025.
- **Mr.S.Nanibabu** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a FDP on **“AI Driven cyber security in IOT Smart devices”** organized by Sri chandrasekharendra saraswathi viswa mahavidyalaya, kancheepuram, May 17, 2025.
- **Miss.P.Sandhya** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a one week skill development program on **“SEARCH Documentation and Proposal Writing: LaTeX, IPR & Beyond”** organized by CVR College of Engineering, held from 23.06.2025 to 28.06.2025.
- **Miss.P.Sandhya** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in a FDP on **“Frontiers of intelligence: Next-Gen technologies shaping the future research”** organized by Sri Sairam Engineering College, Chennai from 26.05.2025 to 30.05.2025.
- **Miss.P.Sandhya** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in International FDP on **“Empowering Faculty for Ethical Teaching in the Digital Era”** organized by DMI Engineering college, Aralvaomozhi & Globethics, South Asia Centre, Bangalore from 02.06.2025 to 07.06.2025.
- **Miss.P.Sandhya** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in on **“NEP 2020 Orientation & Sensitization Programme”** organized by Malaviya mission teacher training centre(MMTTC) of Shri Mata Vaishno Devi University, Katra, J&K from 19.05.2025 to 28.05.2025.
- **Miss.P.Sandhya** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in FDP on **“Block chain & Web3”** organized by Sri Siddhartha Institute of Technology, SSAHE, Karnataka 10.03.2025 to 17.03.2025.



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- **Miss.P.Sandhya** Faculty of Electrical and Electronics Engineering Department, Pragati Engineering College participated in FDP on “**Generative AI and Prompt Engineering**” organized by New Horizon College of Engineering ,Karnataka 10.03.2025 to 17.03.2025.
- **Mr.P.V.V.Ramana** Faculty of Electrical and Electronics Engineering Department ,Pragati Engineering College participated in a FDP on “**Data science with GenAI**” organized by Innomatics research labs, April 07,2025.

❖ Short term training programme:

- **Mrs.P.Pushpa Latha** Faculty of Electrical and Electronics Engineering Department , Pragati Engineering College participated in a STTP on “**Smart Technologies for Electrical Engineering(STEER-2025)**” organized by Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, TN, From 27th-29th March,2025.

❖ No. of Workshops/ Seminars Attended:

Name of The Faculty	Title of workshop/ seminar	Venue	Date(s)
Mrs.P.Pushpalatha	Nation level online workshop on “Application Development with AI &Essential Skills	Pragati Engineering College	June 23 to 27,2025
Mrs.V.R.V.S.Sai valli	Nation level online workshop on “Application Development with AI &Essential Skills	Pragati Engineering College	June 23 to 27,2025
Mr.S.Nani babu	Nation level online workshop on “Application Development with AI &Essential Skills	Pragati Engineering College	June 23 to 27,2025