**Pune Vidyarthi Griha's**
**College of Engineering, Technology & Management, Pune-09**
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# ICAETM 2026 – TRACK 5, DAY 1, SESSION I

## INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING, TECHNOLOGY AND MANAGEMENT

| | |
|---|---|
| **Date** | Wednesday, 28 October 2026 |
| | |
| **Mode** | Offline |
| **Time** | 1:30 pm – 4.30 pm |
| **Venue** | 404: Engg. Main Building |
| **4.30 pm: High Tea break & common photo session** | |

**Track 5:** Electronics, Embedded & Communication Technologies

**Session Coordinator: Prof. Mrs. V. V. Sovani**
**Prof. N. D. Kuchekar**

**Session Chair: Dr. Bhuvaneshwari Jolad**

## TECHNICAL PAPER PRESENTATION SCHEDULE

| Sr. No. | Paper ID | Author Name | Article Title |
|---|---|---|---|
| 1 | 114 | Shardul Sudhanshu Ranade | Gesture Controlled Wheelchair Using the ESP32 Microcontroller |
| 2 | 143 | Atharva Vilas Hamak | A Comparative Study of Existing UWB Vivaldi Antenna Designs |
| 3 | 147 | Sakshi Bhamare | Intelligent IoT-Based Monitoring and Predictive Maintenance System for Pulse Jet Bag Filters |
| 4 | 168 | Dr. Swati Ajay Gandhi | 5G-Enabled Edge AI Smart Surveillance System for Real-Time Crime Detection |
| 5 | 187 | Tejas Muralidhar Surve | Vision Assist: AI-Based Bus Detection and Audio Guidance System for Visually Impaired Passengers Using YOLOv8 and OCR |
| 6 | 316 | Anand Somnath Najan | Adaptive Intelligent Surface-Based System to Suppress the Impact of Unauthorized Users in Wireless Communication Networks |
| 7 | 455 | Ravindra Somnath Bhangare | AI-Driven Hybrid Li-Fi & Wi-Fi Smart Secure Communications And Intelligent Automation System |

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# ICAETM 2026 – TRACK 5, DAY 2, SESSION I

## INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING, TECHNOLOGY AND MANAGEMENT

| | |
|---|---|
| **Date** | Thursday, 29 October 2026 |
| | |
| **Mode** | Online |
| **Time** | 9.00 AM – 11.00AM |
| **Venue** | - |
| **10 min.: Presentation time**<br>**5 min. : Question & Answer** | |

**Track 5:** Electronics, Embedded & Communication Technologies

**Session Coordinator: Prof. T. S. Khatavkar, Prof. S. V. Yogi**

**Session Chair: Dr. Rohit Dua**

## TECHNICAL PAPER PRESENTATION SCHEDULE

| Sr. No. | Paper ID | Author Name | Article Title |
|---|---|---|---|
| 1 | 109 | Arin Vikas Patil | Advanced EEG Signal Processing Techniques for Real-Time Brain–Computer Interface Systems |
| 2 | 112 | Ekeshwari Babarao Dolas | Tremometrix: An IoT-Based Prototype for Classification of Parkinsonian Tremors Using Wearable device |
| 3 | 126 | Sonika Sharad Wadekar | Design and Implementation of an ESP32-Based IoT Framework for Distribution Transformer Monitoring |
| 4 | 127 | Shruti Rajendra Gujar | Explainable and Calibrated Efficient Net Framework for Sugarcane Leaf Disease Detection Using ESP32-CAM Imaging |
| 5 | 158 | Akanksha Madhav Digraskar | IOT- Based Real -Time Power Quality Monitoring and Analysis |
| 6 | 177 | Sakshi Jagdish Khanore | Design and Development of a Solar-Powered Autonomous Pool Cleaning Robot |

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# ICAETM 2026 – TRACK 5, DAY 2, SESSION II

## INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING, TECHNOLOGY AND MANAGEMENT

| | |
|---|---|
| **Date** | Thursday, 29 October 2026 |
| | |
| **Mode** | Online |
| **Time** | 9.00 AM – 11.00 AM |
| **Venue** | - |
| **10 min.: Presentation time**<br>**5 min. : Question & Answer** | |

**Track 5:** Electronics, Embedded & Communication Technologies

**Session Coordinator: Dr. M. H. Belsare,**
**Prof. P. S. Deshpande**

**Session Chair: Dr. Jeegisha Jain**

## TECHNICAL PAPER PRESENTATION SCHEDULE

| Sr. No. | Paper ID | Author Name | Article Title |
|---|---|---|---|
| 1 | 144 | Shachi kishor kadam | A Comprehensive Review of Intelligent Control, Communication and Mapping Technologies for Micro Submarine Systems |
| 2 | 107 | Sumedh Pathrudkar | Comparative Analysis of Delay, Power, and Area in Hybrid Multi-Bit Adders Based on Ling and SQRT CSLA Architectures |
| 3 | 139 | Anjali Anil Suryawanshi | Eye Assist Device |
| 4 | 234 | Kunal Tupe | Comparative Performance Analysis of Modulation Schemes for Inter-Satellite Optical Links: QPSK, OOK and 16-QAM |
| 5 | 157 | Bhagyashri Vijay Parbhane | IOT-BASED REAL-TIME AIR QUALITY MONITORING SYSTEM |
| 6 | 165 | Bhakti Bhausaheb Chavan | Automatic Irrigation and Soil Nutrient Monitoring System |

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# ICAETM 2026 – TRACK 5, DAY 2, SESSION III

## INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING, TECHNOLOGY AND MANAGEMENT

| | |
|---|---|
| **Date** | Thursday, 29 October 2026 |
| | |
| **Mode** | Online |
| **Time** | 2:30 pm – 4.30 pm |
| **Venue** | - |
| **10 min.: Presentation time**<br>**5 min. : Question & Answer** | |

**Track 5:** Electronics, Embedded & Communication Technologies

**Session Coordinator: Dr. M. P. Potdar, Prof. Mrs. U. A. Walke**

**Session Chair: Dr. Sanjay Mohite**

## TECHNICAL PAPER PRESENTATION SCHEDULE

| Sr. No. | Paper ID | Author Name | Article Title |
|---|---|---|---|
| 1 | 195 | Niti Jitendrabhai Agrawal | Fall Detection System for Elderly People |
| 2 | 213 | Vidya Jadhav | Smart Agriculture System And Market Forecasting |
| 3 | 218 | Mohit Mahendra Kudagi | A Physics-Based Digital Twin for Severity-Calibrated MCSA Dataset Generation and Machine-Learning Fault Diagnosis of Induction Motors |
| 4 | 193 | Jui Amol Bramhe | Design and Development of a Smart Sign Language to Speech Converting Robotic Glove |
| 5 | 69 | Soham Amit Kale | A Comprehensive Review of Wall-Climbing Robots for Inspection and Maintenance Applications |
| 6 | 243 | Mangesh Chavan | SafeWear: An IoT-Based Smart Wearable for Automated Physiological Anomaly Detection and GPS-Enabled Emergency Alerting |
| 7 | 353 | Mayuri Arjun Auti | Locked-In Syndrome: A Comprehensive Review of Clinical Management, Brain–Computer Interface Technologies, and Ethical Considerations |
| 8 | 451 | Anita Tanaji Salunkhe | Wearable IoT Patient Monitoring with On-Device Fall Detection: A Review of Edge-AI Methods, Embedded Deployment, and Open Challenges |

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# ICAETM 2026 – TRACK 5, DAY 3, SESSION I

## INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING, TECHNOLOGY AND MANAGEMENT

| | |
|---|---|
| **Date** | Friday, 30 October 2026 |
| | |
| **Mode** | Online |
| **Time** | 10.30 AM – 11.00 AM |
| **Venue** | - |
| **10 min.: Presentation time**<br>**5 min. : Question & Answer** | |

**Track 5:** Electronics, Embedded & Communication Technologies

**Session Coordinator: Dr. S. R. Litake, Prof. V. U. Gongane**

**Session Chair: Mr. Shardul Rautmare**

## TECHNICAL PAPER PRESENTATION SCHEDULE

| Sr. No. | Paper ID | Author Name | Article Title |
|---|---|---|---|
| 1 | 388 | Rohit Dua | Work-In-Progress: From Curiosity to Creation: Undergraduate Research Experiences in Electrical and Computer Engineering Through the OURE Program |
| 2 | 413 | Snehal Mohan Veer | Design of an Iterative Context-Enriched Multi-Stage Intelligence Framework for Reliable Rice Disease Classification Using Spectral Texture Manifolds, Progression Graphs, and Uncertainty-Aware Optimizations |
| 3 | 138 | Shubhjeet Singh Kalsi | Design and FPGA Implementation of a 32-bit RISC-V Processor with a Custom Matrix Multiply-Accumulate ISA Extension |
| 4 | 169 | Mallika Narayan Kulkarni | FPGA-Based Hybrid Lightweight Cryptographic Architecture for Secure Communication in IoMT Healthcare Systems |
| 5 | 197 | Jugal Salil Shirodkar | FPGA Implementation and Evaluation of Multiple-Bit Parity-Based Fault Detection for CRC Circuit |
| 6 | 198 | Shrutika Jitendra Shinde | Design and Implementation of a Multitype FIR Filter on FPGA |