

Open House Technology

Showcase of VNRVJIET

3rd and 4th March 2015. 10AM – 5PM

- 120+ Exhibits & Demos of Research and Consultancy projects.
- Recent developments in Technology and Innovation.

Focus Areas:

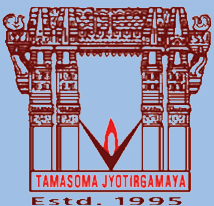
Technology Areas

- *Signal Processing, Wireless communication.*
- *Embedded Control, VLSI.*
- *Speech technology, Image processing.*
- *Computer graphics, Computer vision.*
- *Computer networks, Software Defined networks, Information and network security.*
- *Data mining, Information retrieval and extraction.*
- *Robotics.*
- *High voltage engineering.*
- *Microgrids.*
- *Power electronics, Power systems.*
- *Renewable Energy.*
- *Electrical machines.*
- *Automobile.*
- *Manufacturing, Design.*
- *Material Science.*
- *Additive manufacturing.*
- *Hydraulics.*
- *Thermal Engineering.*
- *Welding.*
- *Structures.*

Application Domains

- *Defence.*
- *Automotive.*
- *Agriculture.*
- *Water Management.*
- *Healthcare.*
- *Energy & Power.*
- *Transportation.*
- *E-Commerce, E-Learning, E-Governance.*
- *Gaming.*
- *Industrial.*
- *Information Technology & Telecommunications.*
- *Construction.*
- *Domestic.*
- *Biometrics.*

VNR VJIET



FREE
Registration



Project Details

| Domain | Project | Floor | Corridor / Room | Project no: |
|----------------------------------|--|-------|-----------------|-------------|
| Agriculture and Water Management | Design and implementation of Turbidity, DO and Ph. sensors | 1 | C5 | 11 |
| | Implementation of WSN with a Moisture sensor and conductivity sensor for automatic irrigation for Agriculture. | | C5 | 13 |
| | Development of effective Wireless sensor Network System for Water quality and quantity monitoring (AquaSense) | | C5 | 12 |
| | Design and development of a Agribot | | C4 | 9 |
| | Rain Water Harvesting | | C4 | 8 |

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|---|---|----|-----|----|
| HealthCare and Biometrics | Gesture recognition using Flex Sensors | 1 | C6 | 14 |
| | Airwriting Recognition | | C7 | 17 |
| | Acoustic Signal Analysis for Healthcare | | C6 | 15 |
| | Emotion, Stress and Cough and Recognition/Detection using Speech | | C6 | 16 |
| | EOG and ECG Monitoring & Analysis | | C8 | 18 |
| | Blue Brain (Virtual Brain) Technology | | C8 | 19 |
| | Virtual Assistant for Paralyzed patients | | C8 | 20 |
| | Arrhythmia classification | | C8 | 21 |
| | Android Application Who is the Doctor | | C8 | 22 |
| | Emotion recognition based on text using Neuro Fuzzy System. | | C9 | 24 |
| | Detection of Superficial and Volumetric Features in 3-D Digital Images | | C9 | 23 |
| | Development of Tool for the Management of Diabetes Mellitus | | C9 | 25 |
| | Development of machine learning based algorithm for computer aided diagnosis of malaria | | C9 | 26 |
| | Automated Screening Of Malaria Parasite Detection Using Machine Learning Methods | | C9 | 27 |
| | Liveness detection and Image quality assessment for fake Biometric detection. | | C12 | 41 |
| | Exoskeleton BOT | | C11 | 36 |
| | Hardware implementation of image processing techniques for the detection of eye diseases. | | C11 | 37 |
| Design and implementation of algorithms for real time patient monitoring in ambulance while in transit. | C12 | 40 | | |

| Domain | Project | Floor | Corridor / Room | Project no: |
|---|---|-------|-----------------|-------------|
| Energy & Power | Genetic SVM Usage for detecting Electricity Fraud | 2 | R24 | 81 |
| | Design and construction of scale down model of Van de graff Generator | | | 106(1) |
| | Wireless power transmission (Witricity) | | | 82 |
| | Solar tracker & Solar tree including Agriculture implementation. | | | 83 |
| | Hardware implementation of FPGA based controller for multilevel inverter | | | 84 |
| | FPGA implementation of Field Oriented control for PMSM | | | 87 |
| | Development and implementation of DSP based Novel algorithm for the protection of power transformer | | | 88 |
| | Security system using Solar | | | 85 |
| | Stun gun | | | 86 |
| | Dark and light sensor | | | 89 |
| | Solar mobile & laptop charger | | | 90 |
| | Low cost Power generation using bicycle | | | 93 |
| | Particle accelerator | | | 94 |
| | Hollow flash light | | | 97 |
| | Kelvins thunderstorm | | | 98 |
| | Continuity tester | | | 101 |
| | Tesla coil | | | 102 |
| | Stability Enhancement with UPFC using CSO | | | 91 |
| | Axial flux machines | | | 92 |
| | Multilevel inverters for high power applications | | | 95 |
| | Development of optimization techniques for protective devices and DG allocation | | | 96 |
| | Application of wavelet function for the PWM control of inverter | | | 99 |
| | A dual two level inverter with common mode voltage elimination scheme for an induction motor drive | | | 106 |
| | Quadratic converter | | | 100 |
| | Design and development of MPPT DC link and static converter for smart microgrid application | | | 103 |
| | DC level stabilization in multilevel inverters | | | 104 |
| | Analysis of 3 level neutral point clamped inverted fed induction motor | | | S1 |
| | Wireless Fault monitoring in LLG transmission line | | | S2 |
| | Running 3 phase motor on a single phase supply. | | | 105 |
| | Loop detector | | | S4 |
| ATC Enhancement using FACTS in Deregulated Power System | S3 | | | |

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|--|---|-------|-----------------|-------------|
| Gaming, E-Commerce, E-Learning, Information Technology | Design and implementation of ATM controller | 2 | C13 | 43 |
| | Mosquito Bat Gaming | | C15 | 52 |
| | Code Hacker | | C15 | 53 |
| | Augmented Reality App for Mobiles | | C15 | 54 |
| | 3D flight simulator | | C16 | 55 |
| | Display of 3D objects in 2D space in Adobe Flash with AS3.0 For E-Learning | | C13 | 44 |
| | Google Street View of VNRVJIET | | C16 | 57 |
| | Event Dunia.com | | C13 | 46 |
| | TETRIS | | C16 | 56 |
| | E-Busspass registration and Renewal System | | C13 | 47 |
| | Mathematical Formula Finder (Android Application) | | C14 | 48 |
| | Data Mining Application for Cyber Credit-Card Fraud Detection System | | C15 | 49 |
| | SFLOW INTEGRATION WITH SDN | | C17 | 60 |
| | Image Fusion using fuzzy & Neuro fuzzy logic | | C17 | 59 |
| | Identity Based short Signature scheme | | C16 | 58 |
| | Incremental Clustering and Classification of Text Documents | | C18 | 61 |
| | Clustering and Classification of High Dimensional Text Documents | | C18 | 62 |
| | Dynamic Informative Mobile Applications. (Include Digitization of Land Records concept also here) | | C15 | 50 |
| | Massive open online course through handheld device. | | C15 | 51 |
| | Dynamic hand gesture recognition system to control soft front panels. | | C18 | 63 |

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|---|--|---|-----|----|
| Semiconductor, Telecom, Industrial, Domestic, General | Low leakage CNTFET Full Adder Circuit | 2 | C20 | 68 |
| | Application of Nanobot As Electronic Nose (Miscellaneous) | | C22 | 71 |
| | Wireless Charging of Mobile Phones Using Microwaves | | C19 | 64 |
| | Arduino wireless display board | | C23 | 75 |
| | Carrier Aggregation | | C20 | 67 |
| | X2 Handover in LTE | | C19 | 65 |
| | LPG Gas leakage detection | | C21 | 69 |
| | Voice Commands for PC | | C21 | 70 |
| | Self-Balancing Robot | | C23 | 76 |
| | 3D Printing Machine | | C22 | 74 |
| | Optimization of controllable turning parameters for High Speed Dry Machining of Super Alloys by measurement of Tool Wear | | C22 | 72 |
| | Design & development of a multipurpose & cost-effective AGV (Automotive guided vehicle) | | C23 | 77 |
| | Remote control for home appliances including temperature control. | | C23 | 78 |
| | Fon technology | | C11 | 38 |

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|--|--|-------|-----------------|-------------|
| Defence, Automotive, Transportation, Construction | Advanced Tracking Device for Transport System | 3 | C25 | 107 |
| | IPCore development of MILSTD 1553 Remote Terminal | | C27 | 114 |
| | Implementation of Traffic Light controller using FPGA | | C25 | 108 |
| | Mobile Image position and performance acquisition system | | MV Lab | |
| | FM Based Switch for Street Light Control | | C25 | 111 |
| | Automated Commando Training System through VNRVJIET | | C27 | 113 |
| | Intelligent and Intuitive Signaling System for On-road Driver assistance | | RFID | |
| | Sensory Measuring Unit | | VI | |
| | Driver safety index using integrated computing system | | MV Lab | |
| | Driving Simulator for Indian Environment | | VI | |
| | Vehicle Locking & Tracking System (VLTS) | | C26 | 112 |
| | Human Powered Vehicle | | C25 | 109 |
| | Hybrid GO-Kart (DESIGN AND FABRICATION OF HYBRID VEHICLE USING ELECTRIC AND CONVENTIONAL FUEL SOURCES) | | C25 | 110 |
| | Experimental study of influences of pulsed current and non-pulsed current Gas Tungsten Arc Welding on 6082 Aluminum alloy Weldments | | C27 | 115 |
| | Comparative study of weld characteristics of IS : 65032A Aluminum alloy by two processes Friction Stir Welding (FSW) and gas tungsten arc welding (GTAW) | | C27 | 116 |
| | Development of procedures for computation of Titanium–Vanadium Binary alloy phase diagram using Cluster Variation method | | C27 | 117 |
| | Design & analysis of new locking mechanism for fixing wheels to an automobile with minimum human effort | | C30 | 120 |
| | Design & Development of a Quadruped robot | | C29 | 120 |
| | Solar Assisted Hybrid Electric Vehicle | | C30 | 121 |
| | Formula Student Car | | C30 | 122 |
| | International Go-Kart Vehicle | | C30 | 123 |
| | Design of Reversing mechanism for 2 wheelers | | C29 | 119 |
| | Low cost Fuel injector cleaning machine | | C30 | 124 |
| | Automated Dam Gates | | C32 | 130 |
| | Metro Rail Project | | C34 | 137 |
| | Evaluation Of Traffic Signal Timing Optimization For Heterogeneous Traffic Conditions Using Microscopic Simulation Program | | C34 | 138 |
| | Liquefaction of soils | | C33 | 131 |
| | Development of High Strength Hybrid Fiber Reinforced Self Compacting Concrete using Quartz Materials | | C33 | 132 |
| | Development of Macroscopic Hydraulic conductivity model in soil from Physical & material properties. | | C34 | 133 |
| | Laboratory Investigation Of Recycled Asphalt Pavements (RAP) In Predicting Its Influence On Modified Asphalt Mixture For Evaluation Of Rutting Characteristics | | C34 | 134 |
| Hex-Copter (Robotics CoE) if possible Humanoid | C28 | 118 | | |