

FACILITIES AVAILABLE

HARDWARE

- Allen Bradley AC Drive Power Flex 40 – 5HP
- ABB AC & DC Drive ACS 550/ DCS 800 – 2HP &5HP
- Lab Volt AC & DC drive trainer
- Allen Bradley PICO Controller 1760
- Chase EMI Test Setup
- Tektronix TPS 2014 4- channel isolated Power Scope
- Voltek Power Analyzer PM 1000 Plus
- 200MHz DSO, 100MHZ, 40MHZ 2 channel DSO
- Motor Control Development Boards
- Microchip dsPIC 3F6010, TI 320F243
- MPLAB ICD3 in- circuit programmer and debugger
- Microcontroller Development Boards
- 8x51, AVR ATmega 8, PIC 16F877
- Logic probe, current probe and Debugging tools
- 3 Phase LV and HV Power Modules
- ODB II ECU Simulator
- Siemens Logo 12/24 RCE PLC

SOFTWARE

- Tasking C Cross compiler with Keil uVision4 IDE
- EDA Tools (OrCAD, Proteus VSM 8.2)
- MPLAB IDE
- AVR Studio
- HI-TECH C Enterprise version for Microchip PIC family (Educational license)
- ABB Drive Window light



Facilities Proposed

HARDWARE

- ▶ Development setup for Solar Photo voltaics and LED lighting
- ▶ Development set up for Automotive Electronics

SOFTWARE

OBD II diagnostic software

CENTRALLY SPONSORED PROJECTS(ONGOING/COMPLETED)

R&D PROJECTS

Microcontroller based Evaporation Rate Monitoring Unit
Sponsored by DST, Gov. of India

PCO Monitor for Visually Handicapped
Sponsored by Ministry of Welfare, Government of India

CAPACITY BUILDING PROJECTS

- Training program on IT Skills to improve the employability of the rural youth belonging to SC/ST/Minority (144 Lakhs) – 5300 candidates in Kerala
- Training program on ITeS-BPO to improve the employability of the rural youth belonging to SC/ST/Minority/Women (117 Lakhs) - 930 candidates in Kerala
- Certification of Scheduled Caste (SC) students in job oriented courses in IT (46.32 Lakhs) – 600 candidates in Kerala
- Training Program in BCC (Basic Computer Course) for the Panchayath Functionaries for the States of Kerala, Karnataka, AP and Lakshadweep with assistance of MoPR, Govt. of India (47.422 Lakhs) – 2620 candidates
- Free Computer Courses for SC and OBC funded by MSJE (24.75 Lakhs) – 200 candidates
- IT Skills & e-inclusion through low cost access devices based awareness program for scheduled Tribes (132.47 Lakhs) – 1500 candidates in Kerala

ACTIVITIES

FORMAL PROGRAM

COURSE WORK OFFERED BY THE GROUP

- **M Tech (ES & EDT)**
-Electronic System Design,
Automotive Electronics
- Product Design and Quality Management
Embedded Applications in Power Conversion

TRAINING PROGRAM

SHORT TERM

- Embedded Product Design and Management
- Embedded Controller based System Design
- Industrial Drives
- Corporate Training Programs – TISCO, BPL, Data Patterns
- FMEA, QFD, Quality Management

R&D ACTIVITIES/PROJECTS(ONGOING/COMPLETED)

- **Batch Automation System for Cattle Feed Plant**
Customer: Kerala Cooperative Milk Marketing Federation (KCMMF)
- **Chopper Drive for Fork Lift Truck**
Customer: M/s TISCO, Jamshedpur
- **High Frequency Welding Unit**
Customer: M/s TISCO, Jamshedpur
- **UVC for 25kW Brushless Alternator**
Customer: M/s. KEL, Kundara (Received RDSO approval)
- **6 Axis Controller for Carl Zeiss Planetarium Projection Equipment & Planetarium Automation System**
Customer: M/s RSC, Calicut
- **Technology Platform for delivery of Multimedia contents for Muziris Heritage Project**
Customer: Department of Tourism Govt. of Kerala, Govt. of India
- **Customization of Technology Platform for delivery of Multimedia contents for Golden Jubilee Museum**
Customer: Kerala Legislature Secretariat

CERTIFICATION SCHEME

Coordination, conduction and certification of BCC & CCC Exams in the states of Kerala, Karnataka & Lakshadweep

ACADEMIC PROJECTS

Guided over 200 MTech/BTech academic projects

OTHER MAJOR ACTIVITIES

Operation and Maintenance of HT & LT electrical Installation and telecom infrastructure of the Centre

ACHIEVEMENTS

Know how developed for more than 50 Electronic products for SSIs

MAN POWER

- **Pratap Kumar. S, Scientist/Engineer “E”**
- **Saritha S, Scientist/Engineer “E”**
- **Manojkumar M.K, Technical Officer**
- **Venkatraman R, Assistant**
- **Suresh K P, Senior Technical Assistant (Electrical Maintenance)**

