ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION (APSSDC)

SIEMENS

Technical Skill Developement Institutes

SKill Development, Entrepreneurship & Innovation Department (SDE & I Dept.)
Governement of Andhra Pradesh
Amaravati.

About t-SDI

The SIEMENS t-SDI aim to train ITI, Diploma Students, Unemployed Youth and School Dropouts on world class Siemens Equipment & Software's. This TSDIs provides training by Siemens certified training partners. t-SDIs benefits student community immensely as they trained on the same Equipment / Software used by Industry. Participants acquire industry best practices through this training. The globally valid Siemens Certification after completion of training increase student's employability.

Deliverables of SIEMENS t-SDI

☑ Impart technical skills, value based education to students, so as to enable them to face the demands of the industry through Industrial Oriented Training with Contemporary learning methodologies.

☑ Support the academicians who are looking forward to take the advantage of the open up global market and research in the contemporary technology.

☑ Benefit the researchers in considerate the industry related problems.

☑ Provide a platform for consultancy in various Technological areas such as fields like Mechanical, Instrumentation, Electrical, Electronics & Communication, Automobile and Biomedical Engineering.

The Objective of SIEMENS Project is to Bridge the Gap Between Institution & Industries

Weak Education System

- Out dated engineering concepts
- No vocational experience/interaction
- Outdated tools in labs
- Faculty not equipped with industry trends & practices

Challenges Faced by Industry

- Large investment in time, effort & money to train students
- 6–18 months before recruits become productive
- Affects competitiveness of companies

SIEMENS Project Initiatives

- Bridge the gap between industry needs and available Skills through industry oriented training
- Enable institutes to improve quality of education
- Provide state-of-the-art tools to match industry standards
- Student Training in Industry skills

TSDI Laboratories

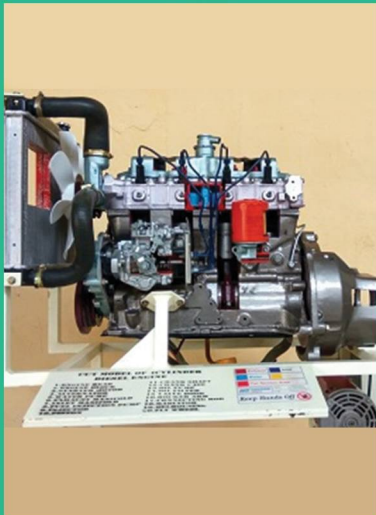| Automotive: 2- Wheeler Lab	Automotive: 4- Wheeler Lab	Electrical-Home Lab	Refrigeration and Air Conditioning (R & AC) Lab	C B T LAB(Solid edge) Lab
Electronics: Home Lab	Electronics: Office Lab	CNC	Welding	Agro and Farm Equipment Lab

Automotive: 2- Wheeler Lab

- The Motorcycle Mechanic course is designed to help you to become a successful motorcycle mechanic.
- In-depth knowledge of various systems and SOPs will be covered supplemented with rich 3D visualization and application scenarios.

Modules Offered

- Basic Automotive Servicing
- Automobile Electrical system
- Automobile Body repair & Painting Repair of Engine System ,
- Repair and overhauling of engine
- system and Transmission Systems.
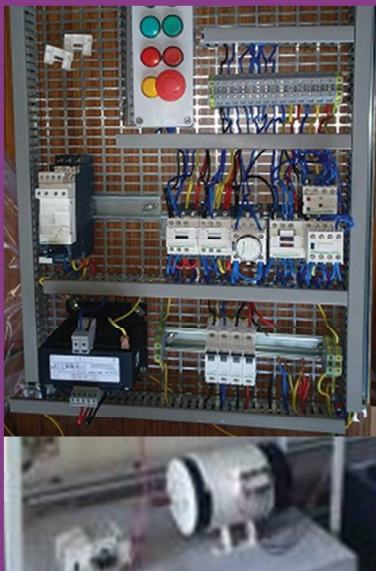
Automotive: 4- Wheeler Lab

- This Module is designed so that you can gain knowledge about the basic maintenance of a passenger car and begin a career in the car repair and maintenance industry.

Modules Offered

- Basic Automotive Servicing , Repair & Overhauling
- Automobile Electrical system
- Automobile Body repair, denting & Painting
- Repair of Auto Air Conditioning system, Engine System , Automotive sensor and actuator technology Repair and overhauling of engine
- system (Petrol & Diesel) and Transmission Systems.

Electrical-Home Lab

- This Module is designed to get you started as an electrician for domestic purpose.
- It covers wiring procedures, earthing regulations and national electrical code (NEC) for both Domestic and Industrial with rich 3D visualization and application scenarios.

Modules Offered

- House Wiring
- Rules pertaining to Earthing
- The National Electrical Codes
- Testing of Domestic Wiring.
- Repair of Home Appliances

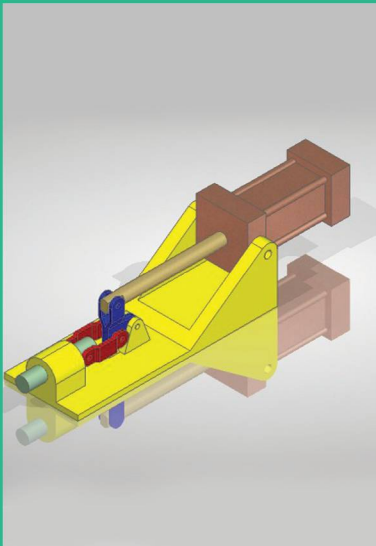## Refrigeration and Air Conditioning (R & AC) Lab

- This Course is designed so that Student can gain basic knowledge regarding the air conditioning process, its working principle, Installation and maintenance and the use of electrical tools needed to carry out these operations with rich 3D visualisation and application scenarios.

Modules Offered

- Installation of Refrigeration and Air Conditioning equipment
- Servicing and Maintenance of R & AC equipment

C B T LAB(Solid edge) Lab

- This course will be modular scalable from Foundation level to Expert level imparting the skill with respect to Design and test Part Modelling & Assembly, Drafting and sheet metal.

Modules Offered

- Introduction to Solid edge, sketching and practice of sketch drawing,
- Solid Modelling
- Part Modelling & Assembly
- Drafting and sheet metal

Electronics: Home Lab

- The Electorinc Home course is designed so that you are able to troubleshoot and diagnose the problem and identify the case for repair in Home Appliances.

Modules Offered

- Foundation Electronics
- Installtion & Maintenance of Home Theatre
- Repair & Maintenance of TVs-LCD/LED

Electronics: Office Lab

- The Electronic office course is designed to help you begin a career as Field Technician.
- This product provides an overview of the Installing the system and configuring the peripherals in an office, system troubleshooting, repair and its usage.

Modules Offered

- Installation & Maintenance of DTH System
- Installtion and Maintenance of Office Electronic Equipment - Network Devices
- Installtion and Maintenance of Office Electronic Equipment - Hardware Devices
- Repair & Maintenance of Smart Phones
- Installation & Maintenance of Office Application Software

Manufacturing: Production (CNC Machine) Lab

- This Course gives general information about different turning, Milling operations, machines used in turning, Milling operations, tools used in Milling, turning operations, components used in milling, turning machines, different types of defects that occur while working in milling, turning and their remedies.
- Subtractive manufacturing Process, TURNING-MILLING CNC Programming, Operating & Machining.

Modules Offered

- Introduction to CNC Technology - CNC Lathe
- Introduction to CNC Technology - VMC
- CNC Programming & Machining
- CNC Turning
- CNC Milling (VMC)
- CNC Machine Tool Maintenance - Mechanical
- CNC Machine Tool Maintenance - Electrical
- Machining Foundation
- Milling - Conventional
- Turning - Conventional
- Milling Master
- Turning Master
- CNC Milling Master
- CNC Turning Master
- Advance Forging &Heat Treatment Conventional

Manufacturing: Fabrication (Welding) Lab

- This Course imparts Skills about different welding processes, electricity and welding, types of arc welding, welding joints and symbols, oxy-fuel gas cutting, grinding, MMAW and MIG.

Modules Offered

- Role of Electricity in Welding
- Basic Fitting work,
- Basic Sheet metal work
- Structural & Pipe Fabrication
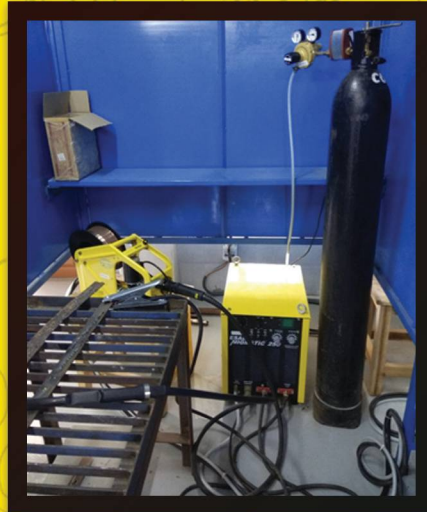- Different types of Welding Process and Gas Cutting

Agro and Farm Equipment Lab

Specialized Modules

- Tractor Servicing Foundation
- Maintenance & Field Operation of Irrigation
- Equipment
- Maintenance & Field Operation of Seed Drills
- Repair And Field Operation Of Tractor
- Repair of Harvesting & Threshing Equipment
- Repair & Field Operation of Tillage Equipment
- Repair & Field Operation Of Root Harvesting Equipments
- Overhauling of Tractor
- Maintenance & operation of Power Tiller
- Repair of Power Tiller
- Repair, Maintenance & Field Operation of Potato Planters
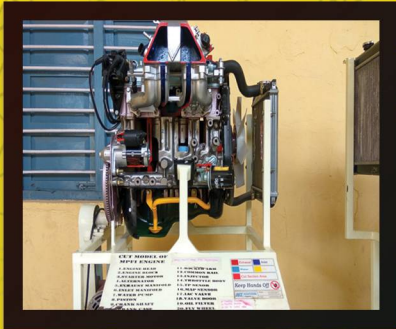- Repair, Maintenance & field operation of Rice Trans-planters

- This Course Skills on Root Harvesting Equipment, Structure of Potato Digger, Structure of Peanut Digger, Types of Root Harvesting Equipment according to operation, mechanism and the location and functions of main components. Information regarding adjustment of Digger Blade, Digger's depth and Drive chains. Repair and Field operation of Tillage Equipment course is designed to help you become Tillage Equipment specialist.
- In-depth knowledge of various systems and SOPs will be covered, supplemented with rich 3D visualization and application scenarios. Repair and Maintenance of Tractor.

SIEMENS Technical Skill Developement Institutes in Andhra Pradesh

SRIKAKULAM DISTRICT
1. Govt. Polytechnic, Srikakulam
2. Aditya Institute of Technology and Management, Tekkali
3. G M R Institute of Technology, Razam

VIZIANAGARAM DISTRICT
4. Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering, Vizianagaram

VISAKHAPATNAM DISTRICT
5. Govt. Model Residential Polytechnic, Paderu
6. Indo-German Institute of Advanced Technology, Kancharapalem
7. Gayathri Vidya Parishad college of Engineering, Madhurawada

EAST GODAVARI DISTRICT
8. Pragathi Engineering college, Surampalem
9. Aditya Engineering college, Surampalem
10. Godavari Institute of Engineering and Technology, Rajahmundry

WEST GODAVARI DISTRICT
11. D N R College of Engg. and Technology, Bhimavaram
12. Sir C R Reddy College of Engineering, Eluru

KRISHNA DISTRICT
13. IIIT, Rajiv Gandhi University of Knowledge Technologies, Nuzvidu
14. Andhra Loyola Institute of Engineering and Technology, Vijayawada
15. Govt. Polytechnic, Vijayawada

GUNTUR DISTRICT
16. Vignan's Foundation for Science, Technology & Research University, Vadlamudi
17. R.V.R. & J.C.Gollege of Engineering, Chowdavaram

PRAKASAM DISTRICT
18. Prakasam Engineering College, Kandukur
19. St. Ann's College of Engineering & Technology, Chirala

NELLORE DISTRICT
20. Audisankara College of Engineering & Technology, Gudur
21. Govt. Polytechnic, Nellore

CHITTOOR DISTRICT
22. Sree Vidyanikethan Engineering College, Sree Sainath Nagar, Tirupati
23. Madanapalle Institute of Technology and Science, Madanapalle
24. S V Govt. Polytechnic, Tirupati
25. Kuppam Engineering College, KES Nagar, Kuppam
26. Siddhaith Institute of Engineering & Technology(SIETK), Puttur
27. Sri City SEZ, Satyavedu

KURNOOL DISTRICT
28. Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal
29. G Pulla Reddy Engineering College, Kurnool
30. Govt. Model Residential Polytechnic, Srisailam

ANANTAPUR DISTRICT
31. Govt. Polytechnic, Anantapuramu
32. Ananthalakshmi Institute of Technology and Sciences, Anantapuramu

KADAPA DISTRICT
33. IIIT Rajiv Knowledge Valley Campus, Idupulapaya
34. Annamacharya Institute of Technology & Sciences, Rajampet

Weblink: http://engineering.apssdc.in/siemens

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