



INDUSTRY CENTRIC Job Oriented Training & MSME Support Facilities



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NSIC
ISO 9001 : 2015

For further details of Training programmes/ Common facility services, please contact:

NSIC Technical Services Centre

The National Small Industries Corporation Limited

(A Govt. of India Enterprise Under Ministry of MSME)

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NSIC - Technical Services Centre, Hyderabad
The National Small Industries Corporation Ltd.
(A Govt. of India Enterprise)
(Under Ministry of Micro, Small & Medium Enterprises, Govt. of India)



National Small Industries Corporation Ltd., (NSIC) is an ISO 9001:2015 certified Mini-Ratna, Government of India Enterprise under the Ministry of Micro, Small and Medium Enterprises (MSME).

NSIC has been working to fulfill its mission of promoting, aiding and fostering the growth of small scale industries, since its establishment in 1955. With enactment of the Micro, Small and Medium Enterprises Development (MSMED) Act, 2006 medium enterprises also come into its ambit.

Skill Development Training and Common Facility Services

NSIC in addition to commercial services, rendering technical support services through its Technical Services Centres located in different parts of the country.

One of the Technical Centres in Hyderabad was setup in 1989 with an aim to develop prototypes and to conduct training for the skill development.

NSIC Technical Services Centre NSIC, Hyderabad

The core area of operation of the Centre are:

- **Industry centric skill development training**
- **CFS & Tesing Facilities**
- **Fan Testing**
- **EV Motor Vehicle Tesing**



Training

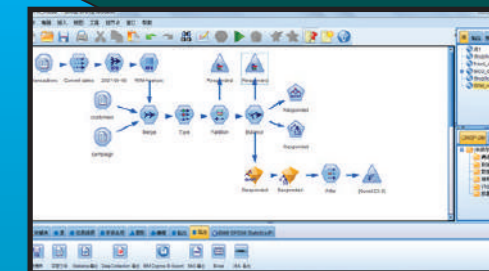
The training is further classified into the streams like:

- **Software - I**
- **Software - II**
- **Mechanical**
- **Electrical**
- **Electronics**
- **CNC**

SPSS

IBM SPSS Statistics (Statistical Package for the Social Sciences) is a software package that helps users analyze statistical data and make data-driven decisions.

Course features -: Includes descriptive statistics, data preparation, graphing, factor and cluster analysis, linear and ordinal regression, and Interface: Has an intuitive interface with drag-and-drop functionality, Data management: Integrates data management with statistical analysis, Visualization: Visualizes missing data patterns and summarizes variable distributions, Reporting: Creates customizable analysis outputs and reports, Predictive modeling: Includes predictive modeling capabilities etc.,



Digital Marketing

Digital marketing is a broad category of marketing strategies and technologies that use digital channels to reach consumers online. It includes a variety of methods.

Course Includes - Marketing activities that take place on the internet, such as email marketing, search engine optimization (SEO), and paid social media advertisements, Marketing that's tailored to mobile devices, such as smartphones, tablets, and smartwatches, A type of digital marketing that includes pay-per-click (PPC) advertising and techniques



Advanced Excel

Advanced Excel is a feature of Microsoft Excel that helps users manage large amounts of data and complex calculations. It includes more tools and formulas than basic Excel, and allows users to perform more advanced data analysis and manipulation.

Course Includes - Formulas: Using complex formulas like INDEX MATCH, OFFSET, and SUM, PRODUCT, Data validation: Setting rules and restrictions on what data can be entered into cells or ranges, PivotTables: Building a PivotTable to extract insights from data, AutoFilter: Using the AutoFilter feature effectively, Macros: Recording and editing macros, CONCATENATE: Combining multiple cell values into a single value etc.,



Basic Multi Media and Animation

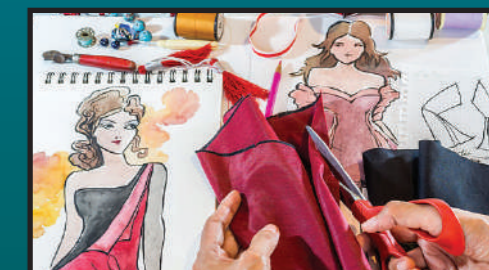
Adobe Photoshop is a software program used for image editing, retouching, and creating image compositions. It is a critical tool for creative professionals, graphic artists, photographers, designers, and Adobe Premiere Pro is a video editing software that allows users to create professional-looking videos for film, TV, and Adobe After Effects is a software program used to create motion graphics, visual effects, and animations for film, TV, video, and combine audio, video, images, text, transitions, and animations.



Fashion Designing

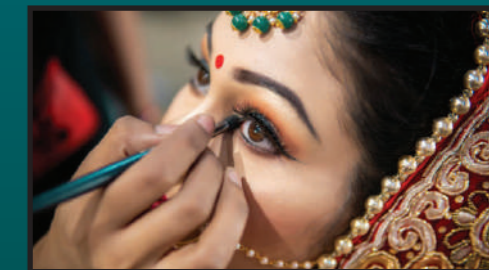
Fashion Designing program designed for students who want to take up a creative career in clothing and apparel industry. Students learn design skills, merchandising, and knowledge of fabric and design as well as ways to create their own brand. The course combines practical sessions with theoretical studies in fashion design, culture and garment technology. This program holds potential employment opportunities in the rapidly expanding fashion industry.

The students are also provided entrepreneurship training to assist in setting up their own business.



Beautician Course

Beautician training designed for students who want to take up a career in the beauty industry. Apart from learning various skills and treatments provided by beauty therapist they also learn hair styling techniques and advanced treatments for the same. This programme holds potential employment opportunities in the rapidly expanding beauty and wellness sector. The students are also provided entrepreneurship training to assist in setting up their own business.



Software - II Department

A Software - II Department is responsible for managing an organization's departments, using business skills to improve performance, and making positive changes.

Graphic Design

- The course trains candidates for graphic designing using Photoshop, Corel Draw, Illustrator, Indesign enables...
- To create art work for logos, banners, brochures, greeting cards, calendars, visiting cards etc.,
- To design pages for publishing works like newspapers, magazines, books, movie Posters, letter heads, four colour jobs etc.,
- To create designs for textiles, fashion, interiors (textures, patterns, sketches, shopping bags, handlooms, wallpapers, stickers etc.,)
- To create digital painting
- To understand Color Theory, Page Layout, Sketching, Animation etc.,
- To design Web pages



Computerized Accounting & Tally with GST

With the fast-changing business scenario, experts in Taxation, Payroll Accounting, GST, TDS, TCS, cost centre are in high demand. The Tally course is all you need to grow your employment opportunities. The Course uses a feature-based approach to introduce students to do Accounting on Computers. This guides you for the steps to handle Accounting, Inventory, Statutory and other specific business roles in different types of businesses.



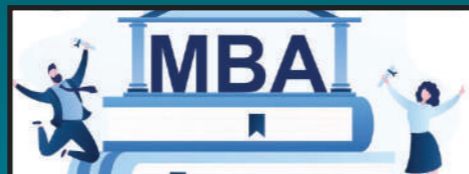
MS-Office & Internet

In this course, one gains all basic skills that one needs to create a wide range of standardized business documents. Also it will be possible to create complex documents in Microsoft Office by adding components such as customized lists, tables, charts and graphics.



MBA/BBA/B.Com Projects and Internships

MBA/BBA/B.Com project is a research-based assignment that allows students to apply their theoretical knowledge to real-world business scenarios. MBA projects are a key part of an MBA student's academic and professional development, and can help students develop skills like data analysis, problem-solving, leadership, and communication.



Data Analytics using Tableau

Tableau is an analytics platform that helps users analyze data to answer questions, find patterns, and make business decisions:

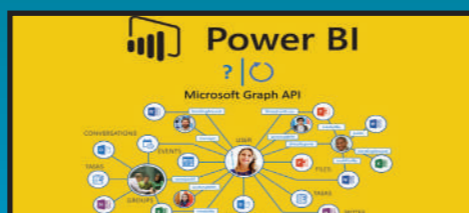
Course Includes - Data collection and analysis, Visualizations, Sharing, Deployment, Tableau can be deployed in the cloud, on-premises, or integrated with Salesforce CRM.



Power Bi

Microsoft Power BI is a collection of tools and services that help users analyze data and create visualizations for business intelligence purposes:

Course Includes - Data sources, Data visualization like Power BI can create visuals like charts, graphs, maps, and scatter plots, and Power BI can create reports that combine visuals on one or more pages etc.,



R language

R is a free, open-source programming language for statistical computing and graphics, R is used for data cleaning, analysis, and visualization. It's also used in predictive analytics and is in high demand in the data science job market.

Course features - R is known for its data visualization capabilities, allowing users to create high-quality graphics with minimal code, User-defined recursive functions, Loops, Conditionals, Input and output facilities etc.,



Product Design & Prototype Development

The Centre is well equipped with latest version of design software for imparting training for designing of machine parts, components & tools etc. Production size Computerized Numerically Controlled Machines (CNC) are installed in the Centre to give hands on training for machining of the components. The facility for 3D printing is also available to the trainees to learn the prototype development of the design prepared in CADD software

Programmes in Mechanical /Civil Design Stream

Master Certificate Course In Advanced CAD/CAM (CATIA, Solid Works & Unigraphics)

The course is designed for Mechanical Design Engineers and includes training on 3D Modelling, Surfacing, Sheet Metal, Assembly & Advance Manufacturing using above software.

AUTOCAD 2D & 3D

The course offers comprehensive training in creating precise 2D drawings and advanced 3D models using AutoCAD software. It equips participants with the skills to design, visualize, and document architectural, mechanical, and engineering projects effectively.

Unigraphics

The course provides advanced training in 3D CAD modelling, assembly design, and simulation using Siemens NX software. It focuses on equipping professionals with the skills to design complex products and optimize manufacturing processes across various industries.

PRO-ENGINEER

The PRO-ENGINEER course offers specialized training in 3D CAD design, parametric modeling, and product lifecycle management using PTC Creo software. It prepares professionals to efficiently design, simulate, and manufacture complex mechanical components and systems.

CATIA

The CATIA course provides in-depth training in 3D CAD design, modelling, and product development using CATIA software. It equips professionals with the skills to create complex designs for industries such as aerospace, automotive, and industrial machinery.

SOLIDWORKS

The SolidWorks course focuses on 3D modelling, design, and simulation using SolidWorks software. It enables professionals to create and optimize mechanical designs for various industries.

ANSYS

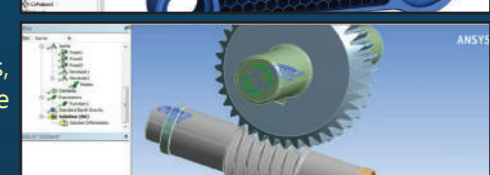
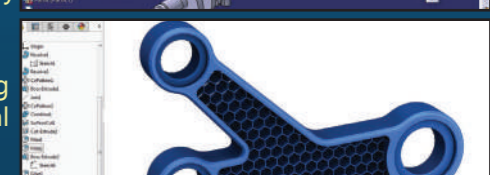
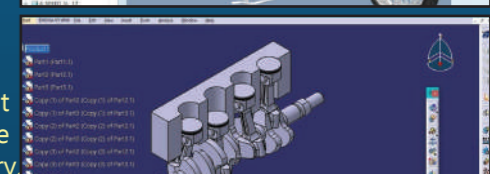
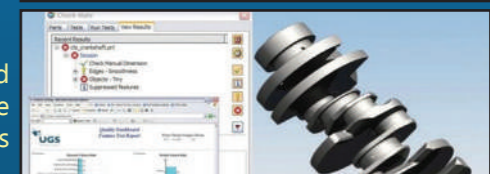
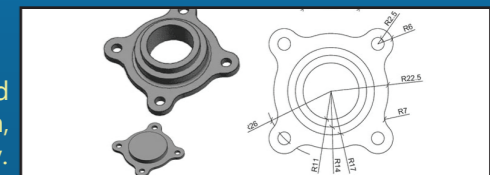
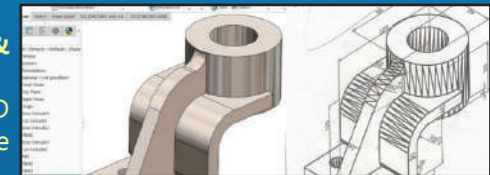
The ANSYS course focuses on using ANSYS software for advanced simulations, including structural, thermal, and fluid dynamics analysis. It helps professionals optimize product designs and predict performance in various engineering applications.

3D Printing (Based on Additive Manufacturing Technology)

The 3D Printing course, based on Additive Manufacturing Technology, teaches the principles and techniques of creating physical objects from digital models using 3D printing. It covers design, material selection, and the application of 3D printing across industries such as aerospace, automotive, and healthcare.

Master Certificate Course in CNC & CAD/CAM (CNC Milling & CNC Turning & Unigraphics)

To provides advanced training in computer numerical control (CNC) machining and CAD/CAM software. It covers CNC milling and turning processes, along with 3D modeling and machining techniques using Unigraphics, preparing professionals for efficient design and manufacturing in various industries.



Mechanical – CNC/CAD/CAM

The Centre is well equipped with latest version of design software for imparting training for designing of machine parts, components & tools etc. Production size Computerized Numerically Controlled Machines (CNC) are installed in the Centre to give hands on training for machining of the components.

The facility for 3D printing is also available to the trainees to learn the prototype development of the design prepared in CAD software.

Programmes in Mechanical /Civil Design Stream

- **CNC Programming & Operation (Milling)**
Turning course teaches the fundamentals of CNC Milling operations and programming. It covers tool selection, setup, G-code writing, and machining techniques for precision part manufacturing.
- **CNC Programming & Operation (Turning)**
Turning course teaches the fundamentals of CNC lathe operations and programming. It covers tool selection, setup, G-code programming, and turning techniques for producing precise cylindrical parts.
- **REVIT**
Training Programme to create 3D parametrical architectural designs using Revit software for Civil & Architecture students
- **Interior Design (Based on Space Design & Decoration with Model Making)**
The course covers concepts of Interior Design (Wall, Window, Doors, Finishes, Texture, Light, Furnishing & Furniture etc.) + Model Making (Residential & Commercial Projects as like Modular Kitchens, Luxurious Bed Rooms & Drawing Rooms etc.). The trainee learns Fundamentals of Civil Engineering Drawing with 2D Orthographic Projections, 3D Pictorial Projections along with Designing Software i.e. AutoCAD + Revit Architecture & 3D Studio MAX etc.
- **Engineering Drawing (Based on Manual Drafting)**
This course covers Fundamental concepts of Mechanical Engineering Drawing, various type of 2D Orthographic Projections, 1st Angle & 3rd Angle Projection, 3D Pictorial Projections, Sectioning, Development of surfaces, Geometrical Dimensioning & Tolerances etc.
- **Refrigeration & Air Conditioning**
Training covers basic refrigeration and the processes for Installation, Gas charging, Assembly and dismantling, preventive maintenance & troubleshooting of Air Conditioners (Window & Split). The Course covers concepts of Refrigeration cycle, Evaporative Cooling, Power Consumption, Automatic Climate Control, Refrigerants, Gas Charging, Wiring Diagram, Installation & Preventive Maintenance.
- **HVAC Design (Heating, Ventilation & Air Conditioning Design)**
HVAC system design is a sub-discipline of mechanical engineering, based on the principles of thermodynamics, fluid mechanics, and heat transfer to provide thermal comfort and acceptable indoor air quality. The course covers heating & cooling load analysis, Logical systems. Mechanical systems and duct work, Mechanical Piping systems, Inspect System, Schedules, Documentation & Sheet Settings etc.
- **Tool Design & Advance Manufacturing**
The course includes designing and manufacturing of Jigs and Fixtures, Press Tools and Moulds using CAD/CAM software like AutoCAD, SolidWorks, MasterCAM, and Delcam etc.
- **Machinist with CNC**
Theory & Practical training on Fitting, Drilling, Tuning, Milling, Grinding using conventional Machine & Operation Machining, Practices on CNC Machines.
- **Advanced Welding**
Course designed for ITI/Diploma students includes theory and practices on welding hand experience in real-time environment like Gas, MAG, TIG, MIG, Plasma, Spot welding and Arc welding.
- **Fitter Fabrication**
The course includes theoretical and practical training on various engineering tools like hamme chisels, blades, files etc. It also covers metrology, gases & welding processes and types of Electrodes.
- **Industrial Training**
The Training Course Covers in the area of Mechanical like RAC, and washing machine Installation maintenance Fabrication, product design development and product manufacturing process planning.
- **Product Design and Manufacturing**
Course designed for how to develop the product design by using CAD applications and how to develop manufacturing process planning for CNC Machines, about Product life cycle challenges in product execution maternal compensation and their properties, Quality controlling, machine shop instruments.

Apart From these courses Market demandable course are also conducted.

Duration: The above courses have duration varying from 1 to 6 months.

Eligibility: The students with qualification of 10th class to Engineering graduates can join these programmes.

Robotics

Robotics Process automation (RTA) mimics people interaction, Epically on high volume, High performance task, Automate Operational process, Minimize errors and Improves Efficiency and performance, Thus Significantly reducing costs.

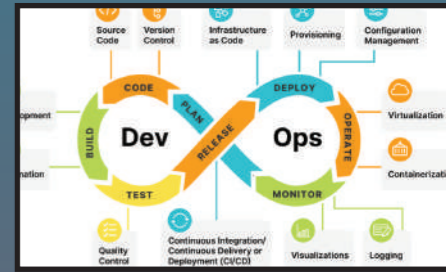
Course Includes - Artificial intelligence: How to program all the major systems of a robotic car, including planning, search, localization, tracking, and control, Machine learning: How to use machine learning in robotics, Mechatronics: How to use mechatronics in robotics, Control systems: How to use control systems in robotics, Materials and manufacturing processes: How to use materials and manufacturing processes in robotics, Technical drawing and computer-aided design: How to use technical drawing and computer-aided design in robotics



DevOps

Get started on DevOps training with content built by AWS experts If you're a beginner looking for a clear starting point to help you build a career or learn how to implement a solution in DevOps, we recommend you start with an AWS Learning Plan.

Course Includes - This set of on-demand courses will help grow your technical skills for deploying, managing, and monitoring cloud applications on AWS as you review CI/CD pipelines, deployment methodologies, observability, and more. Learning Plans can also help prepare you for the AWS Certified DevOps Engineer - Professional certification exam.



Linux

The course is an in-depth coverage on Linux system fundamentals as well as advanced administration including monitoring and troubleshooting. It starts with Linux environment and then proceeds to Bash Shell scripting programming which is essential for any System Admin. Then It moves on to describe important concepts and aspects of Linux sub-systems Be User/Group Process Management, Automated Job Scheduling, Backup, Networking, Package Management, Installation etc.,

Course Includes - Installation and initialization: How to install and initialize Linux ,File system security and management: How to manage and secure file systems, Server configurations: How to configure servers, Shell scripting: How to use containers, SELinux security, and GitOps etc.,



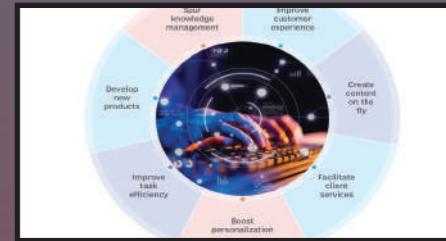
Informatica Intelligent Cloud Services

An Informatica course syllabus typically covers the following topics:

Data warehousing: Introduction to data warehousing, including the need for a data warehouse, data warehouse layer architecture, and designing a warehouse.

ETL tools: Introduction to ETL tools, including their role in data warehousing

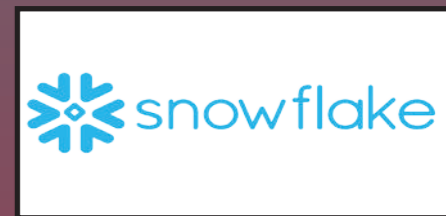
Informatica architecture: Introduction to Informatica architecture, including components and process flow etc.,



Snow Flake Database in Cloud

Snowflake is a cloud-based data platform that allows users to store, process, and analyze data. It's a Software-as-a-Service (SaaS) solution that's designed for the public cloud and can't be run on-premises. Snowflake offers a variety of features.

Course Includes - Scalability: Snowflake can automatically scale up or down its compute resources to handle different workloads, Security: Snowflake offers security controls like identity and access management, encryption, and networking.



GitHub

GitHub allows you to create, store, change, merge, and collaborate on files or code. Any team member can access the GitHub repository (think of this as a folder for files) and see the most recent version in real time. Then, they can make edits or changes that the other collaborators also.



Apart From these courses Market demandable course are also conducted.

Duration: The above courses have duration varying from 1 to 6 months.

Eligibility: The students with qualification of 10th class to Engineering graduates can join these programmes.

Computer Programming Languages

C. C++ (Introduction to OOPS), Python, Java Programming, Generics Framework, I/O Fundamentals, Console I/O and File O Creating Graphical User Interfaces (GUIs), Oracle developer/DBA, Android Application, DotNet Technologies, Cloud Computing and SQL server. Trainees may opt one or more languages to equip themselves to do programming for development.

Course Includes - Computer programming languages include syntax and semantics, which are the rules and structure of the language.

Website Designing & Development

This course enables to design, develop and maintain static and dynamic websites, Div. & table based, animated websites and customized web applications using Photoshop, HTML, CSS, JavaScript, JQuery, Ajax, Dreamweaver, MySQL and Core PHP Advance PHP. WordPress, Joomla, Flash.

Course Includes -The different areas of web design include web graphic design; interface design; authoring, including standardized code and proprietary software; user experience design; and search engine optimization.

Big Data & Hadoop

Big Data is a term for data sets that are so large or complex that traditional data processing application software is inadequate to deal with them. Challenges include capture, storage, analysis data curation, search, sharing, transfer, visualization, querying. Updating and information privacy.

Python

It includes following features:

- Learn to build the logic and write programs in Python using variables, operators, etc.,
- Be able to develop a program block using functions, to store data to file, dictionaries etc.,
- Know how to construct networked programs using web services and databases.
- Be able to identify basic building blocks of a programming language.
- Become proficient at handling files.
- Know how to store and manipulate data using dictionary and tuples.

Java

This program provides an introduction to object-oriented concepts and its implementation in Java technology programs. In addition, it covers syntax and semantics of the Java programming language.

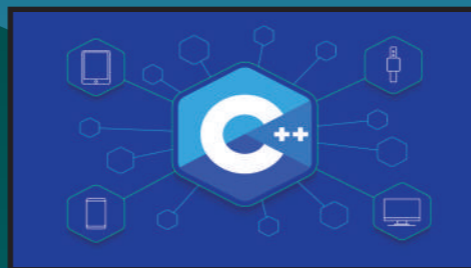
Course Includes - Data types: A fundamental element of the Java language, Object-oriented programming (OOP): A core concept of Core Java, which includes the four pillars of OOP: encapsulation, inheritance, polymorphism, and abstraction, Operators: A key concept in Core Java, Control statements: A key concept in Core Java etc.,

Advance Embedded System based on Arduino Board and Raspberry Embedded system basically is a computer system that is designed to pull off a few or one specific function, more often than not in real-time computing constraints "ARDUNIO" most widely used technique of embedded systems. An important aspect of the Arduino is the standardized way in which the connectors are exposed, providing a facility to the CPU board to get connected to a variety of interchangeable add-on modules.

Course Includes- Introduction to Arduino and Raspberry Pi based Embedded System, Programming and Practicals or advance training kits.

Project Management Using Jira

Jira is a widely used project management tool, particularly popular for agile software development, but also applicable to other project types. It enables teams to plan, track, and manage their projects by offering features like issue tracking, workflow customization, reporting, and integrations with other tools. Jira can be used to manage projects from start to finish, providing a central platform for collaboration and progress monitoring.



Electrical & Electronics

The power industry is evolving at sustainable rate, there is high scope of absorption of skilled youth in the industry. The training on Electrical & Electronics field is imparted with an aim to address the requirement of high-tech Electronics, Manufacturing and Servicing industries. These programmes bridge the gap between educational institutions and skill requirement in industrial sector.

New technologies and innovative methodologies are adopted to strengthen the base of skilled and trained manpower so as to prepare them ready to be deployed on the work site.

Programmes in the area of (Electrical & Electronics Department) are

Masters Certificate Course in Electronics

The main aim of this programme is to impart industrial exposure to student pursuing ITI Diploma BSC, Tech in electronics. We give this training as per the requirement of industries After this training programme our trainees can work directly in any electronic industries in the area of technical stores productions, Service and Maintenance RND Quality control, and Technical Marketing.

Solar Energy

Solar energy is radiant light and heat from the Sun that is harnessed using a range of ever-evolving technologies such as solar heating, photovoltaic cell, solar thermal energy, solar architecture and artificial photosynthesis.

Course Includes- Introduction of solar Energy, Basic Electrical Concepts, Types of solar charge controllers and Inverters, solar Home System, DC Micro Grid Solution, Hybrid Solar System, AC Micro Grid Solution etc.,

Automation with PLC-SCADA

Programmable Logic Controller or PLC is a computing system used to control electromechanical processes SCADA stands for Supervisory Control and Data Acquisition, it is a type of industrial control system that is used to monitor and control facilities and infrastructure in Industries.

Course Includes-Programmable Logic Control, Human Machine Interface, Supervisory Control & Data Acquisition (SCADA), Panel Designing, Communication, VFD (Drives).

Embedded System

An embedded system is a computer system with a dedicated function within a larger mechanical or electrical system, often with real-time computing constraints. It is embedded as part of a complete device often including hardware and mechanical parts. Embedded systems control many devices in common use today. Ninety-eight percent of all microprocessors are manufactured as components of embedded systems.

Course Includes-introduction to Embedded System, Programming and Practical of Microcontroller 8051, AVR, ARM-7, PIC, GSM etc.,

Electrician

An electrician is tradesperson specializing in electrical wiring of buildings, stationary machines, and related equipment. Electricians may be employed in the installation of new electrical components or the maintenance and repair of existing electrical infrastructure.

Course Includes Introduction to Electricity & Electronic, Single Phase & Three Phase wiring analysis, Industrial & Domestic House Wiring, Motor Winding, Capacitor Bank, HT and LT Panel Analysis, Transformer, Generator Set etc.,

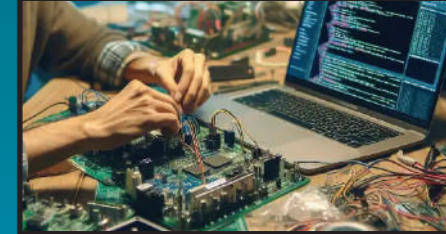
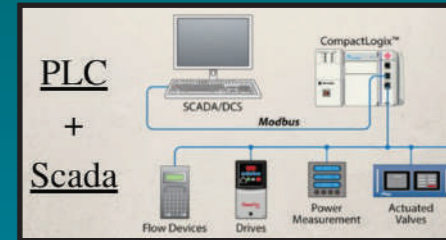
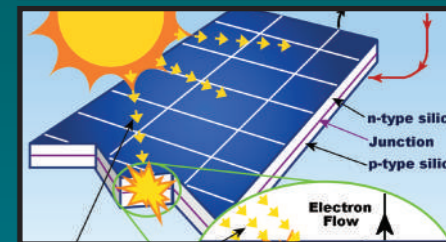
Electrical Circuits & Substation Maintenance

A substation is a part of an electrical generation, transmission, and distribution system. Substations transform voltage from high to low, or the reverse, or perform any of several other important functions, Course Includes- Introduction to Electricity, Single Phase & Three Phase wiring analysis, HT and LT Panel, Capacitor bank and Substation.

Motor Winding & Repair

DC machines are defined as follows: Armature circuit A winding where the load current is carried, such that can be either stationary or rotating part of motor or generator, Field circuit- A part of windings that produces a magnetic field so that the electromagnetic induction can take place in electric machines.

Course Includes-Introduction to Types of Motors, Single Phase & Three Phase Motors, submersible Motors Types of Windings, Re-Winding, Repair and Maintenance.



- **CCTV Installation Technician**

Closed Circuit Television (CCTV) is a system where the circuit in which the video is transmitted is closed and elements (camera, display monitors, DVR) are connected. The most common use of CCTV is in security camera systems. The course includes CCTV system planning, wiring, and design process, specification, installation, and maintenance of key system components such as cameras, lenses, DVR, NVRs and cabling.



- **LED Light Repair Technician**

An LED light is an integrated light that uses light-emitting diodes (LED) as its light source. LED lights use 90% less energy than traditional bulbs, and for businesses that run their lights 24/7 it can mean huge savings. The course includes basics of LED technology, different types of LED lights, specifications, technical aspects, repairs & maintenance, fault finding.



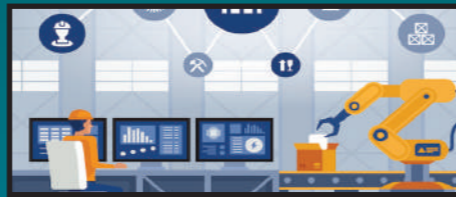
- **Mechatronics**

Mechatronics is a multidisciplinary field of science that includes mechanical engineering, electronics, computer engineering, telecommunications engineering, systems engineering, and control engineering. Pick & Pack Robot - This robot is a part of a complete supply chain management process that is commonly used in the retail distribution of goods. Course includes Introduction of Robotics Field, Programming Structure overview and Practical on Robots.



- **IIoT**

The Industrial Internet of Things (IIoT) is a network of connected devices in the industrial sector that transfer data without human interaction. IIoT is a subset of the Internet of Things (IoT).



- **VLSI**

VLSI, or Very Large Scale Integration, is a technology that integrates many devices onto a single chip. It's used to create integrated circuits (ICs) that can perform a wide range of functions, from simple logical operations to complex algorithms.



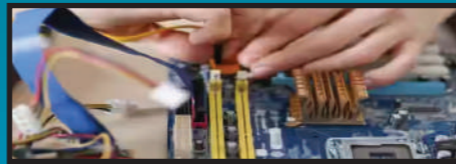
- **Windows Server Configuration**

Windows Server configuration involves setting up the hardware and software of a Windows Server to perform specific functions. This includes: Installing the operating system, Setting up the network, Adding server roles and features, Securing the server, and Managing updates.



- **Computer Hardware & Windows Server**

Computer hardware refers to the physical components of a computer, while Windows Server is a group of operating systems designed to support businesses with data storage, applications, and communications. Here are some things to know about computer hardware and Windows Server:



- **ECAD**

ECAD, or Electronic Computer-Aided Design, is a type of software used to design and develop electronic systems, such as printed circuit boards (PCBs) and integrated circuits (ICs). ECAD software is a specialized form of CAD (Computer-Aided Design) software, which is a broad term that can refer to any design software.



- **Drone Technology**

Drone technology revolutionizes aerial operations by enabling remote-controlled and autonomous flight. It is widely used in agriculture, surveillance, delivery, and disaster management. Drones offer real-time data, reduce human risk, and increase operational efficiency.



Duration: The above courses have duration varying from 1 to 6 months.

Eligibility: The students with qualification of 10th class to Engineering graduates can join these programmes.

Apart From these courses Market demandable courses are also conducted.

Software - I Department

The aim of training through this division of Centre to address the requirement of IT Industry including software export units. The Interactive training through projector linked with individual computer would enable the trainee to have real-time learning on their work-station.

Programs in the area of Software Department

- **Data Science**

Data science is the scientific study of data to extract knowledge and insights that can be used to make informed decisions and predictions. It's an interdisciplinary field that combines math, statistics, computer science, and artificial intelligence to process large amounts of data.

Course Includes - Statistics and probability, Programming fundamentals in Python and R-Language, including data types, loops, and functions, Algorithms, models, and techniques for building predictive systems, Data mining: Discovering patterns and insights from large datasets etc.,



- **Artificial Intelligence and Machine Learning (AIML)**

Artificial intelligence is a broad term that describes computer software that can learn from and perform complex tasks in a way that mimics human cognition. Machine learning (ML) is a subfield of AI that uses algorithms trained on data to create adaptable models that can perform a variety of complex tasks.

Course Includes - AIML contains a collection of rules which define the conversational capabilities of the chatbot. It's used with a linguistic communication Understanding (NLU) processor which takes AIML rules to investigate and reply to the text queries asked via the chatbot.



- **AWS/Azure/Cloud Computing**

Cloud computing is a service that provides on-demand access to computing resources, such as storage, databases, and servers, over the internet. It allows users to access these resources without having to manage physical servers or run software applications on their own computers.

Course Includes - Cloud Computing is the delivery of computing services over the internet, or "the cloud". It includes Servers, storage, databases, networking, software, analytics, and intelligence, Infrastructure as a service (IaaS), platform as a service (PaaS), software as a service (SaaS), and serverless computing etc.,



- **Android App Development**

Android programming is meant for creating applications for devices which run under the Android OS. Most of the Android applications are created using Java language by using the Android SDK. Generally an SDK contains API, debugger and an emulator.

Course Includes - Android applications are installed on Android-powered devices using an APK file, which contains the app's contents required at runtime. Android apps can be written using the Android software development kit (SDK) in languages such as Kotlin, Java, and C++.



- **Cyber Security & Ethical Hacking**

Cybersecurity is the body of technologies, processes and practices designed to protect networks, computers, programs and data from attack, damage or unauthorized access. Cyber security is important because government, military and medical organizations collect, process, and store unprecedented amounts of data on computers and other devices.

Course includes-Introduction & practicals on Cyber Security Application security, Data security, Database security, Cloud security, Mobile security, Data recovery and End-user education.

Protecting devices: Protecting devices like computers, laptops, smartphones, and tablets from theft or damage, Protecting data: Keeping sensitive information safe and preventing unauthorized access to it, Protecting systems: Ensuring that IT systems work properly and are not disrupted or modified by cybercriminals ETC.,

