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NSIC

INDUSTRY CENTRIC

- Job Oriented Skill & Entrepreneurship Training
- Material Testing and Job Work Facilities



EV Charging



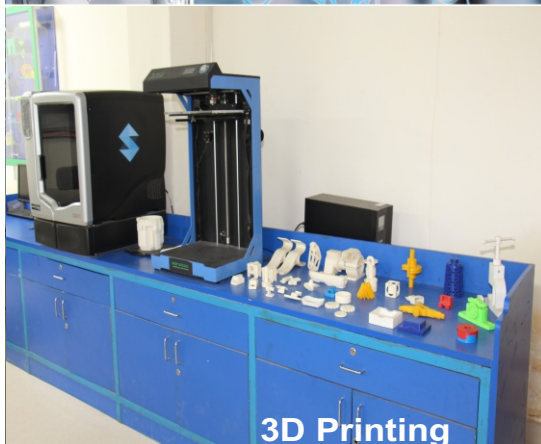
AR/VR



Interior Design



Welding Robot



3D Printing



Reverse Engineering



Drone

NSIC Technical Services Centre, Okhla - New Delhi



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 Okhla was setup in 1962 with an aim to develop prototypes and to conduct training for the skill development.

NSIC Technical Services Centre Okhla, New Delhi

The core area of operation of the Centre are:

- Industry centric skill development training
- Facilitating the first generation entrepreneurs through rapid incubation programme
- Providing Common Facility Services in the area of Material Testing and Job Work



Pt. Jawaharlal Nehru visiting Technical Service Center, Okhla, New Delhi (1958).



Sh. Morarji Desai, Prime Minister of India visited NTSC, Okhla, New Delhi.

Training

The training is further classified into the streams like:

- Design & Prototype Development
- Mechanical
- Electrical and Electronics
- Information Technology
- Entrepreneurship Development

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 Design Training for Mechanical / Civil Engineering Students

- **CAD/CAM** (Based on Creo/CATIA/Unigraphics-NX)

Course covers Training on :

- Sketching, Part Modelling, Surfacing & Sheet Metal
- Assembly & Projections
- Manufacturing Milling & Turning
- Drafting and Annotation.

- **CAD** (Based on AutoCAD)

The course enables to use 2D & 3D tools for creating technical drawings & designing 3D models for machines & architectural models.

- **Computer Aided Engineering (CAE)** (Based on ANSYS/ADAMS/NASTRAN)

Computer-aided engineering (CAE) LEARN TO SIMULATE performance in order to improve product designs or assist in the resolution of engineering problems for a wide range of industries.

- **Computational Fluid Dynamics (CFD)** (Based on ANSYS Software)

CFD is a branch of fluid mechanics that uses numerical analysis and data structures to solve and analyze problems that involve fluid flows.

- **Mould Design cum CAD/CAM** (Based on Mould Design + Unigraphics – NX)

The course covers complete Mould Designing Aspects for tool designer using advance simulation tools in Unigraphics - NX.

- **SolidWorks** (Based on Cadd using SolidWorks)

Computer Aided Designing and Drafting tools for machine parts and assemblies are covered in this training.

- **3D Printing** (Based on Additive Manufacturing Technology)

This course deals with rapid prototyping solutions for Product Design sector.

- **CNC Programming & Operation** (Based on Training and Milling)

- **STAAD.Pro** (Based on 3D Structure Analysis & Design)

An advance Civil Structural Design and Analysis Software used by Civil Engineers for providing solutions for civil structures.

- **Revit** (Based on Revit Architecture)

Training Programme to create 3D parametrical architectural designs using Revit software for Civil & Architecture students.

- **Engineering Drawing** (Based on Manual Drafting)

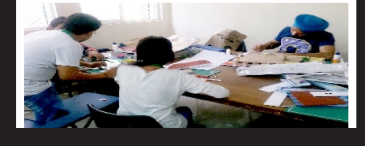
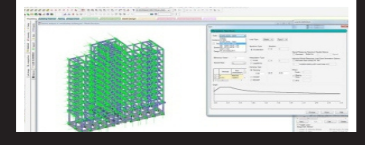
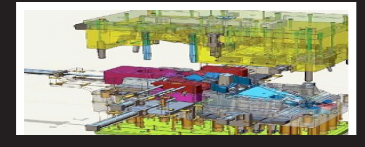
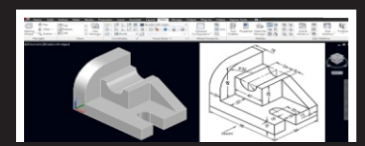
This course covers Fundamental concepts of Mechanical Engineering Drawing, various type of 2D Orthographic Projections, 1st Angle & 3rd Angle Projection, 3D Pictorial Projections, Sectioning, Development of surfaces, Geometrical Dimensioning & Tolerances etc.

- **Building Information Modelling (BIM)**

BIM is an Intelligent 3D model based process that gives architecture, engineering and construction professionals. the insight and tool to more efficiently plan, design, construct and manage buildings and infrastructure.

- **Interior Design**

The course enables students to effectively design a space such as bedrooms, kitchen, drawing rooms, etc through AutoCAD, Revit Architecture, 3D's MAX Software and model making.



Duration : Above courses are offered in module-wise structure and in different combinations, with duration varying from 1 to 12 months.

Eligibility : Trainee with qualifications ranging from 10th class to Engineering Graduates can join these programmes as per eligibility.

Mechanical Stream

The Centre is imparting training with focus on practical training coupled with theoretical aspects, to address the demand of manufacturing and other mechanical industries.

- **Advance HVAC Design** (Heating, Ventilation & Air Conditioning)

Advance HVAC Design programmes is a detailed study of different types of air conditioning systems such as central air conditioning systems, VRF system stand-alone DX system, different equipments and technologies used in various applications such as residential apartments commercial buildings, hotels, hospitals, offices, basements etc. that need environmental regulations to improve human comfort. The course gives comprehensive knowledge of Heat-Load estimation, equipment selection, their location, duct design and sizing, pipe design and sizing, various quantity calculations, static pressure calculations, electrical panel design, head calculation of equipment, lift well pressurization, staircase pressurization and lift lobby pressurization, car park and various service area ventilation etc. through direct training on three specific projects (1.HVAC in hotel with 50-6- rooms, 2. HVAC in commercial building, 3. Basement Ventilation), gaining hands experience to design the relevant air conditioning system and also preparing various tender documents, comparisons and rates estimates as required.

- **MEP using REVIT**

MEP (Revit) facilitates Mechanical, Electrical & Plumbing systems to be designed for a building. The course covers BIM (Building Information Modelling), Basic Drawing and modify tools, Starting system Projects, Working with views, Spaces and zones, Energy Analysis, HVAC Networks, Plumbing Networks, Advance systems for HVAC and Plumbing, Electrical systems, Creating Construction Documents, Adding tags and schedules creating details etc.

- **Master Certificate Course in Advance Air Conditioning (MCAAC)**

Introduction to Air Conditioners (AC), Trouble Shooting of ACs (Split & Windows), HVAC Design, MEP (Using REVIT), Project Work, etc.

- **Master Certificate Course in Advance Quality Control & Inspection (Mech.) (MCQCI)**

Introduction to Metrology, Application of different measuring instruments, Non Destructive Testing, Roughness Tester, Roundness Tester, Profile Projector, Height Master, Scheduling & Documentation.

- **Quality Control Inspection (Mech.)**

The course includes introduction to Metrology, application of different measuring tools & instruments like vernier calliper, micrometer, types of gauges, height gauge, depth gauge, Bevel Protractor, Sine Bar, etc. Non Destructive Testing, Co-ordinate Measuring Machine using Calypso, Contour Tester, Roughness Tester, Roundness Tester, Digital Height Master, Digital Air Gauge, Profile Projector, etc.

- **Non Destructive Testing (NDT)**

The course includes Level-1 training on Ultrasonic Testing (UT), Magnetic Particle Testing (MPT) & Dye Penetrans Testing (DPT) as per ASNT Guidelines.

The course includes Level-2 training on Ultrasonic Testing (UT), Magnetic Particle Testing (MPT), Dye Penetrans Testing (DPT) & Radiographic Analysis as per ASNT Guidelines.

- **Certificate Course in Advance Quality Control & Inspection (Mech.) (CCAQCI)**

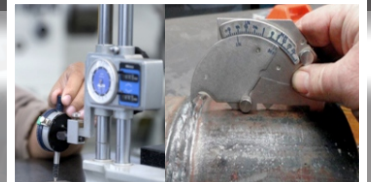
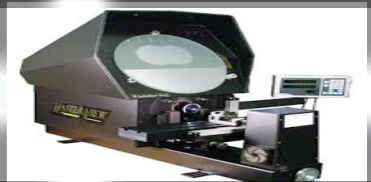
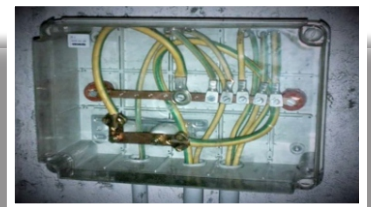
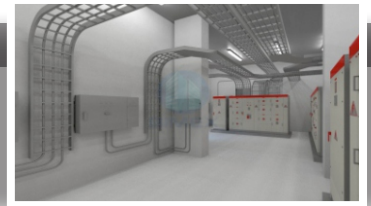
Introduction to Metrology, Application of different measuring instruments, Introduction to NOT, Roundness Tester, Profile Projector, Height Master, Scheduling & Documentation.

- **Advance Certificate course in Welding Technology (ACWT)**

The course includes training on Welding Simulators with Real-Time arc in different angles and positions. Hands-on practice on **Arc Welding**: practice on different joints and positions, **TIG Welding**: With Argon in SS/MS, Practice on plates & pipes, **MIG Welding**: With CO2 in MS plates & pipes, **Spot Welding**: on SS/MS material, **Plasma Cutting**.

- **Quality Control & Inspection (Mech.) (QCI)**

Engineering Drawing, Application and Practice on measuring instruments, practice on advance instruments like Digital Height Master, Digital Air Gauge, Profile Projector, etc.



● Refrigeration & Air Conditioning

Training covers basic refrigeration and processes for installation, Gas Charging, Assembly and Dismantling of Air Conditioners (Window type as well as Split type). The course covers all aspects of Air Conditioning and Refrigeration including Compressor types, body design, Basic Electrical components and Wiring Diagram, Refrigeration Cycle Trouble Shooting and Maintenance of Window & Split AC, Repair of Refrigerator, Gas Charging.

● Automobile Air Conditioning

Air Conditioning in Automobiles is specialised field of Refrigeration and Air Conditioning field which requires specialised training covering basics of automobile refrigeration and processes and training for Refrigeration Cycle, Evaporative Cooling, Power Cycle, Automatic Climate Control, Types of Refrigerants, Gas Charging, Wiring Diagram, Trouble Shooting, Installation, Power Sources, Electronics and Mechanical components and Preventive Maintenance.

● Fitter Fabrication (FF)

The course includes theoretical and practical training on industry relevant engineering practices Health & Safety, Manual welding, involves identifying metals, tools; fitting and fabrication operations like measuring, marking, sawing, grinding, drilling, chiselling, threading, tapping, scraping, manual lapping and inspecting of components in order to fit a component as per specifications, Basic manual arc welding, etc. Basics of Metrology and welding are also covered to make the course comprehensive.

● TIG/MIG Welding

This course is designed for ITI/ Diploma or trainees with welding experience and includes theory and practices on welding simulators and hands-on experience in real-time environment.

TIG Welding: with Argon in SS/MS, Practice in Plates and Pipes.

MIG Welding: With CO2/MS, Practice in Plates and Pipes.

NCVT Affiliated Programmes

- ITI- Turner
- ITI- Machinist
- ITI- Draughtsman (Mechanical)
- ITI- Fitter

● Master Certificate Course in Tool Design and Advance Manufacturing (MCTDM)

Design: Moulds, Die Casting Dies, Press Tool, Jigs & Fixtures Computer Aided Design: AutoCAD, Solid Works, Autodesk Power Shape (DELCAM), Computer Aided Manufacturing: Mastercam, Solid Works, Autodesk Power Shape (DELCAM), Computer Aided Manufacturing: Mastercam, Autodesk Power Mill (DELCAM), CNC: VMC, Lathe, WireEDM, Die Sinking. Conventional Machines: Lathe, Milling and Surface Grinding.

● Advance Certificate Course in Tool AND die Manufacturing (ADTDM)

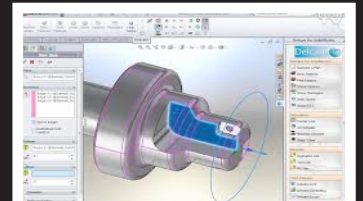
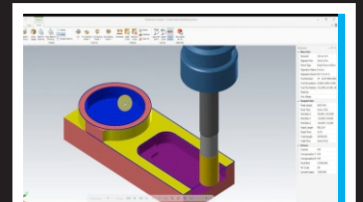
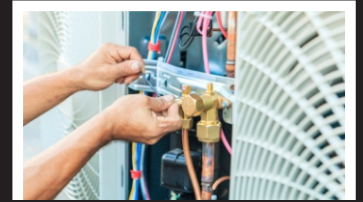
The course makes the trainee master in identifying tool and die specifications from Design, plan and organise for manufacturing of Tool & Die. The trainee shall be able to perform fitting activities, operate conventional machines, assemble and prove tools. The course includes CAD/CAM -AutoCAD, Mastercam/ Delcam (Power Shape, Power Mill) CNC - Programming and Machining Practices on VMC and Lathe. Advance Manufacturing - CNC Wire DEM, Die Sinking.

● VMC Operation & Programming with DELCAM/MASTERCAM

VMC: Introduction, Safety, Cutting Tools, Control Panel, Homing, Datum Setting, Dialling, Part programming, Machining practices. Delcam: Introduction, 2D Drafting, 3D Modeling (Solid & surface), Assembly, Electrode Extraction, Tool Path Generation using Different strategies, NC code/ program generation, Program transfer to CNC machine. Introduction, Wireframe Modeling, Surface, Solid, Assembly, Tool Path Generation, Tool Path. A separate course in DELCAM (Autodesk- Powershape, Powermill is also covering above modules.

● 3D CNC CMM Programmer Cum Operator

CMM Overview, Care and Maintenance, Introduction to GO&T, 2D, & 3D Programming Program interface, probe selection and qualification, planning for a program layout, making a basic program with manual probing, alignments, measuring common features planes, lines, points, cylinders, circles, spheres, cones, constructing auto features, Creating dimensions: distance diameter, true position, flatness. etc, managing probe travel, editing program, generating a printout of results.



Duration : Above courses are offered in module-wise structure and in different combinations, with duration varying from 1 to 24 months

Eligibility : Trainee with qualifications ranging from 10th class to Engineering Graduates can join these programmes as per eligibility

Electrical & Electronics

The power industry is evolving at sustainable rate, there is high scope of absorption of skilled youth in the interface, probe selection and qualification, planning for a program layout, making a basic program with manual probing, alignments, measuring common features planes, lines, points, cylinders, circles, spheres, cones, constructing auto features, Creating dimensions: distance diameter, true position, flatness. etc, managing probe travel, editing program, generating a printout of results.

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.

- **ARC Welding Robot**

Robot welding is the use of mechanized programmable tools, which completely automate a welding process by both performing the weld and handling the part.



- **Electric Vehicle Charging Station**

Electric Vehicle Charging Station- An electric vehicle charging station, also called EV charging station, is an element in an infrastructure that supplies electric energy for the recharging of plug-in electric vehicles including electric cars, electric buses, motor cycles, scooters and e-rickshaws. Course includes- Introduction of EV Stations. Basic concepts of Electronic & Electricals, Components, Charging & Discharging Concepts etc.



- **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 Home System, AC Micro Grid Solution etc.



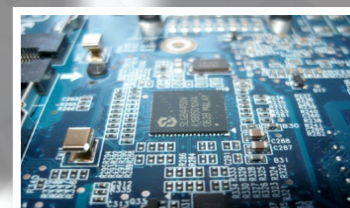
- **Automation with PLC-SCADA**

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), Distributed Control System (DCS).



- **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.



- **Internet of Things**

Internet of Things (IoT) is an ecosystem of connected physical objects that are accessible through the internet. The 'thing' in IoT could be a person with a heart monitor or an automobile with built-in sensors, i.e. objects that have been assigned an IP address and have the ability to collect and transfer data over a network without manual assistance or intervention. The embedded technology in the objects helps them to interact with internal states or the external environment, which in turn affects the decisions taken.



- **Electrician**

An electrician is a 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 & Electronics, 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 set 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 all the elements (camera, display monitors, DVR) are directly connected. The most common use of CCTV is in security camera systems.

The courses includes CCTV system planning and design process, specification, installation, set up and maintenance of key system components, 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 a combination of 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

Vision Inspection Robot- This is the technology and methods used to provide imaging-based automatic inspection and analysis for such applications as automatic inspection, process control, and robot guidance, usually in industry.

Gantry based Palletizing Cell- It is a machine which provides automatic means for stacking cases of goods or products onto a pallet. Course includes- Introduction of Robotics Field, Programming Structure overview and Practical on Robots.

● Advance Embedded System based on Arduino Board and Raspberry Pi technology

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 on advance training kits.

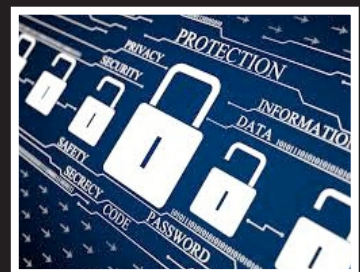
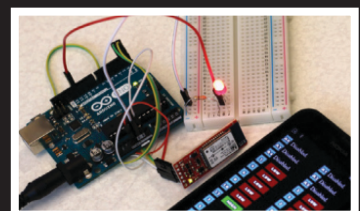
● Cyber Security & Cyber Forensics

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 & Cyber Forensics Network security, Application security, Data security, Database security, Cloud security, Mobile security, Data recovery and End-user education.

● Aerial Robotics (Drone)

A drone, in a technological context, is an unmanned aircraft. These are more formally known as unmanned aerial vehicles or unmanned aircraft systems. Essentially, a drone is a flying robot. The aircrafts may be remotely controlled or can fly autonomously through software-controlled flight plans in their embedded systems working in conjunction with onboard sensors and GPS. Course Includes-Introduction to the concepts of unmanned aircraft modeling, state estimation, control, as well as into the very basics of motion planning. Programming and practicals on different Drone models.



Duration : Above courses are offered in module-wise structure and in different combinations, with duration varying from 1 to 12 months.

Eligibility : Trainee with qualifications ranging from 10th class to Engineering Graduates can join these programmes as per eligibility.

Information Technology

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.

Programmes in the area of IT are

● Advance Software Technology

The Course equips trainees with the knowledge of essential IT Tools, Internet Technology, programming languages like C, C++, JAVA, Dot net technologies, knowledge of Operating systems, Data communication & Network Technologies etc. to become a software developer.

● Computer Hardware & Networking

The course includes maintenance & troubleshooting of computer hardware & components, Networking essentials, Installation of Client and Server Operating System, Device Drivers, Installation of Operating System, Anti-virus, Taking Backup, Maintaining window server 2012 and Linux server etc.

● "O" Level in affiliation with DOEACC

The course is designed to cover basics of IT as well as software used in office automation.

● Advance Networking

Advance networking course equips the trainee with advance approach to manage switches and various types of traffic present on small networks. TCP/IP models will be introduced in order to gain the understanding of network traffic and layered approach for cabling, network card, routers, switches and Wi-Fi.

● Office Automation

This course makes the students computer literate and be familiar with Internet and Social networking Sites to help individual in day to day work in today's IT enabled society and includes training on MS office and Internet, Fundamentals of e-Commerce, Computerized Accountancy, Tally, Advance Excel/VBA, DTP (Desktop publication).

● Computer Programming Languages

C, C++ (Introduction to OOPS), Python, Java Programming, Generics Framework, I/O Fundamentals, Console I/O and File I/O, Creating Graphical User Interfaces (GUI), Oracle developer/DBA, Android languages to equip themselves to do programming for development.

● 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, Core PHP, Advance PHP, WordPress, Joomla, Flash.

● Multimedia & Animation

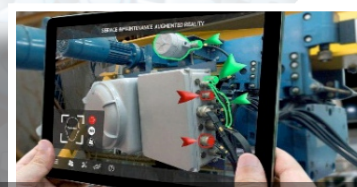
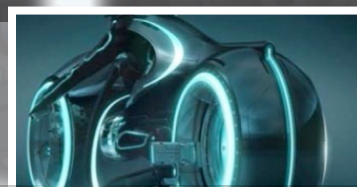
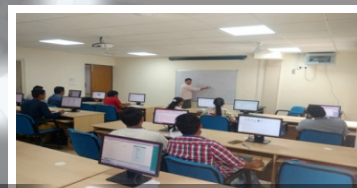
The course covering 3D Modelling, Texturing, Lighting, Rigging, Animation & Visual Effects for creating 3D Digital movie using Maya, 3D Studio Max, Photoshop, V-Ray, After Effects & Premiere.

● Augmented Reality (AR)

Augmented Reality (AR) trainings are based on technology enriching the real world with digital information and media, such as 3D models and videos, overlaying in real-time the camera view of your smartphone, tablet, PC or connected glasses. Medical students use AR technology to practice surgery in a controlled environment.

● Virtual Reality (VR)

Virtual Reality (VR) training are based on interactive computer-generated experience taking place within a simulated environment, that incorporates mainly auditory and visual, but also other types of sensory feedback like haptic. Augmented reality systems may also be considered a form of VR that layers virtual information over a live camera feed into a headset or through a smartphone or tablet device giving the user the ability to view three-dimensional images.



● CCNA & CCNP

Cisco Certified Network Associate (CCNA) and Cisco Certified Network Professional (CCNP) course covers a broad range of networking concepts. It helps candidates to prepare for the latest network technologies they are likely to work on and skills required to install, configure, and troubleshoot converged local- and wide-area networks with 100 to 500 or more end- devices. This training provides the ability to plan, implement, verify enterprise networks and work collaboratively with specialists on advanced security, voice, wireless and video solutions.

● SAP Business One

SAP Business One is business management software (ERP) designed for small and medium-sized enterprises. This course covers functional modules for finance, customer relationship management (CRM), warehousing and production management, purchasing and procurement, and reporting and analytics. This course also equips the trainee, with installation and support mechanism.

● Data Science

The data is generated from different sources like financial logs, text files, multimedia forms, sensors, and instruments. Simple Business Intelligence tools are not capable of processing this huge volume and variety of data. Data science is a multidisciplinary blend of data inference, algorithm development, and technology in order to solve analytically complex problems. This training course provides the advanced analytical tools and algorithms for processing, analyzing and drawing meaningful insights out of Data captured from various resources.

● Graphic Design

The course trains candidates for graphic designing using Photoshop, Corel Draw, Illustrator, Indesign, HTML, CSS, & Flash 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.

● 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. Hadoop is an open-source software framework for storing data and running applications on clusters of commodity hardware. It provides massive storage for any kind of data, enormous processing power and the ability to handle virtually limitless concurrent tasks or jobs. This course includes Java Fundamentals, Hadoop, HDFS, Map reduce, Spark, Hive, Pig, Hbase, Sqoop, Yarn, MongoDB, Hadoop Security. There is a huge potential in job market for the experts with in-depth knowledge in Big Data processing skills using Hadoop and Spark.

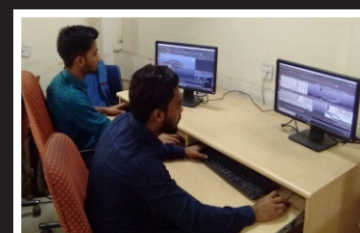
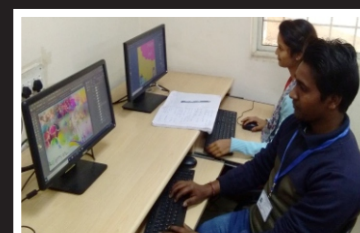
● Python

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

● SQL Server

In this course one can learn how to implement and manage database solutions with powerful reporting features. It includes the features for managing a database, data storage, database backup, import and export data, making data secure and database maintenance etc.



● Core 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.

● MCP-CCNA

The course covers various important aspects of Internetworking like OSI Reference model, Networking devices, IP Addressing, Subnetting, Routing and Switching, Network Security, Wireless networks etc. After the completion of training the candidates are ready to work with CISCO Routers and Switches in any networking environment.

● Android Application

Android programming is meant for creating applications for devices which runs under the Android OS. Most of the android application are created using Java language by using the Android SDK. Generally an SDK contains API, debugger and an emulator. IDE such as Eclipse and Android Studio is widely used for Android development. Basic knowledge in XML and essential knowledge in Java language helps you to become a good Android developer.

● Advance Java

Advanced Java programming is meant for people having a thorough understanding of Core Java. Advanced Java is mainly dealing with networking, web, advanced graphics and database programming. Client server based applications, applets and servlets are considered under advanced Java. Enterprise edition and micro edition of java are usually considered as advanced Java. Micro edition has features suitable for portable devices such as smart phones, tablets and other handheld devices.

● Cloud Computing

Training will make students learn how to abstract useful information extracted in cloud structure and how CLOUD COMPUTING helps people all around the world to access data without installation and download. Course covers a range of topics related to cloud computing mechanisms, cloud security threats and controls, essential cloud technologies, Cloud Concepts and Models, Virtualization, System Management and Business Continuity in the Cloud etc

● C++ & OOPS

C++ Programming language has many features such as classes, operator overloading, function overloading, reference variables, virtual function, new memory allocation and de-allocation operators, default arguments to functions etc. In this course you will learn.

- C++ Syntax
- C++ Language Fundamentals
- How to Create Functions in C++

● 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. Personalized Microsoft tools can also be created.

● Linux Administration

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 like User/Group/Process Management, Automated Job Scheduling, Backup, Networking, package management, installation, event log files, monitoring and troubleshooting aspects which are necessary to perform regular day-to-day operations efficiently on a Linux System.

● Advanced Excel

This course covers:

- Use of advanced graphs and presentation techniques to maximise impact
- How macros and VBA automate your spreadsheets and increase interactivity
- How superpower functions can solve complex problems
- Using PivotTables and PowerPivots to turn raw data into clear information that supports key decisions.



● Laptop Repair Course

Now a days, technology has advanced to such a level that a laptop has become a necessity. People seem to be using their Laptops while on the move and at home or in office. So, the professionals for repairing of laptops are in great demand. The Course covers the knowledge and skills required in troubleshooting and repairing a Laptop.

● Mobile Phone Repair Course

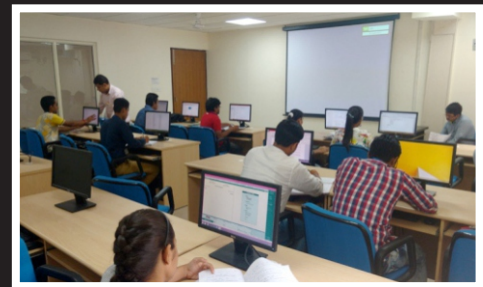
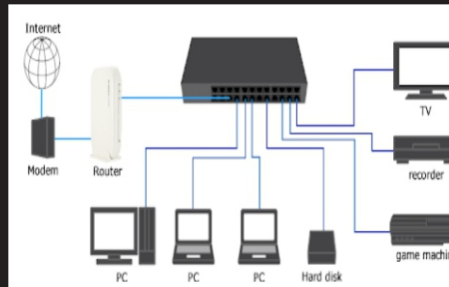
Now a days, technology has advanced to such a level that living without a Mobile Phone has become quite impossible. Mobile phone is one such technological device that people feel lost without. Mobile Phone Repairing course equips the trainees to troubleshoot and repair the mobile phones of latest technology.

● Computerized Accounting & Tally ERP

With the fast-changing business scenario, experts in Taxation, Payroll Accounting, Excise, VAT and Service Tax are in high demand. The Tally.ERP9 course is all you need to grow your employment opportunities. The Course uses a feature-based approach to introduce students to Accounting on Computers. This guides you for the steps to handle Accounting, Inventory, Statutory and other specific business roles in different types of businesses.

● Digital Marketing

The course is designed to cover digital technologies mainly internet tools for the marketing of products or services. The course includes website customization, search engine optimization, social media marketing, mobile marketing, google analytics, email marketing, e-commerce marketing & basics of entrepreneurship development.



Duration : Above courses are offered in module-wise structure and in different combinations, with duration varying from 1 to 24 months.

Eligibility : Trainee with qualifications ranging from 10th class to Engineering Graduates can join these programmes as per eligibility.

Online Courses and Healthcare Related Training

● Online courses

The centre has introduced no. of online courses for benefit of candidates who wish to pursue training in various skills from the comfort of their homes. Some of the online courses started by the centre are Covid Aid Accessory Design, Orientation programmes in Advance Excel, CCNA, Java Programming, Mobile Phone repairing, MS Office and Internet, C Programming, Big Data, R Programming, Laptop Repairing, Computer Maintenance, Tally with GST, Data Science, HTML, Python, 3D Max Pro, Digital Marketing, Solar Business, Industrial Automation, Industry 4.0, Internet of Things, Arduino based Embedded System, CCTV installation, LED Light Assembling, Basic Electrician, EV Charging, Google Tools, CNC Programming, VMC G-Code and M-Code, HVAC, Engineering Drawing, PCB & Circuit Designing, Android App Development, Javascript, etc.

You may visit the link http://www.nsic.co.in/pdfs/NTSC/online_courses_NTSC_Okhla_courses27012021.pdf for latest list of courses.

● Training in Healthcare in association with Apollo MedSkills

Hospital Front Desk Coordinator

The course design helps the candidates understand the dynamics of hospital operations in a modern day health care set-up resulting in a hassle-free experience for the patient. They act as a liaison between the clinical staff and the recipients of healthcare services. A healthcare operations manager oversees the general functioning of a healthcare facility.

Pharmacy Assistant

In this course the trainees are trained in pharmacy practice, Prescription overview and protocol, Common abbreviations. Medicine dispensing : Classification of drugs, Generic names, Batch ID & expiry date. Drug supply maintenance : drugs procurement mechanism and cycle, Cold storage of drugs and vaccines, Drug storage protocol.



Apparel Training and Incubation Programme

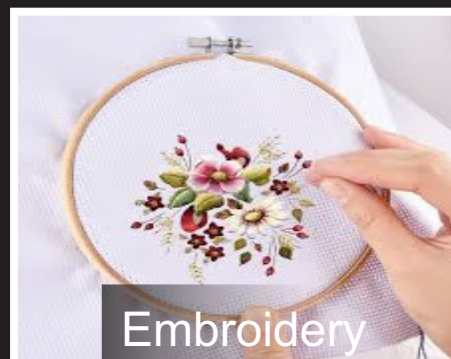
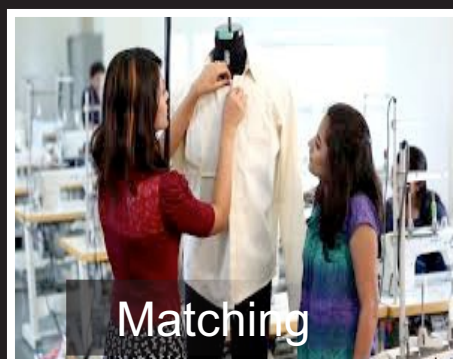
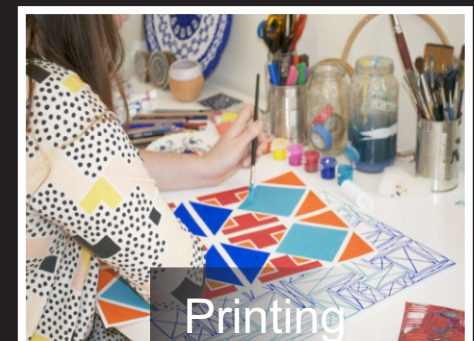
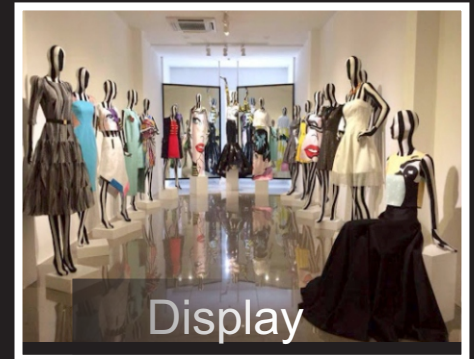
NSIC Technical Services Centre has introduced Training and Incubation programme in the specialised field of Apparel, Garment Making, Fashion Designing, Merchandising, Home Furnishing, Jewellery Design and Making designed for candidates who want to take up a creative career in clothing and apparel industry. Trainees learn design skills, merchandising, knowledge of properties of different types of fabric and cloth and also how and when to use them. The course combines relevant hands-on practical sessions with theoretical studies in fashion design, culture and garment technology. This programme provides trainees with necessary skills and knowledge to tap the potential employment opportunities in the rapidly expanding fashion industry. The trainees are also provided entrepreneurship training and assisted to encourage them in setting up their own business. They are trained in the process required to create their own brand.

Apparel Incubator

- Diploma in Fashion Designing (Full Time)
- Apparel Merchandising (Part Time)
- Remaking of use Garments
- Art & craft for decoration
- Home Furnishing (Printing)
- Quilting Work

Short term courses

- Textile Designing (Part Time)
- Garment Designing and Boutique Management (Full Time)
- CAD – (Specialized) In Garments
- Jewellery Designing and Making
- Draped Garment
- Quality Control
- Pattern Making
- Hand Embroidery
- Dress Making
- Advanced Beauty Care
- Professional Make-up
- Hair Cutting
- Bridal Make-up
- Sanitary Napkin Making
- Basic Jute Bags Making
- Advance Designer Bags Making



Duration : Above courses are offered in module-wise structure and in different combinations, with duration varying from 1 to 12 months.

Eligibility : Trainee with qualification ranging from 10th class to Graduates can join these programmes as per eligibility.

Entrepreneurship Development Training (Livelihood Business Incubation Programme)

In addition to the skill development, NSIC has introduced new initiative called Rapid Incubation Programme for Small Enterprise Development. Through this initiative, NSIC engages with youth in the country, including un-employed, with an aim to inculcate entrepreneurial skills in them by imparting hands-on training on working projects. Trainees get complete exposure on the manufacturing process, raw material sourcing, market dynamics, preparation of project report and all aspects of business development. This programme provides a solid base to take the person from "Berozgar to Swarozgar" - Unemployed to Self-Employed.

Programme Deliverables

- Entrepreneur Business skill Development
- Identification of Appropriate Technology
- Projects/ Product Selection and Opportunity Guidance
- Hands-on Experience on the Working Projects
- Interaction with Technology Suppliers
- Complete Guidance to Setup an Enterprise
- Facilitation on Project Report Preparation
- Facilitation on Credit Through Banks

Projects placed in the Centre for practical working are

- Automatic Socks Knitting Project
- Biscuit / Bread Making Project
- Form Fill & Sealing Project for Granules
- Form Fill & Sealing Project for Liquids
- Toilet Paper Roll Making Project
- Oil Expeller & Packing Project
- Paper Napkin Making Machine
- Soya Milk Making Project
- Spice Grinding & Packing Project
- Book Binding & Printing Project
- Beauty Care
- Cutting Tailoring cum & Computer Embroidery

Wire Nail Making Project


































Duration : Above courses are offered in module-wise structure and in different combinations, with duration varying from 1 to 12 months.

Eligibility : Trainee with qualification ranging from 10th class to Graduates can join these programmes as per eligibility.

Placement Facilitation

The Centre has dedicated Placement Cell with a call centre to facilitate the successful trainees for placements in industry. Job fairs are organised every quarter. In addition to Job Fairs, the candidates are provided with necessary information about job openings on regular basis. The requirements from Companies are noted down and matched with the training programmes being conducted at the centre and candidates with appropriate skills are provided to the companies for interviews. Based on the feedback received from the companies the appropriate changes are made in the training programmes so that skilled as well as productive manpower is available for the industries. The job fairs motivates the trainees to give their best in the training programmes and provides them confidence industry is always ready to take the right person with right skills. More than 150 companies are associated with the centre for taking trainees. A few of these are placed as under:

 Kisaan Die Tech	 PCL-SUMO Air Technology Pvt Ltd	 Prime Recruiters
 Radical Solar Pvt. Ltd.	 Munjali Showa Limited	 Quality Austria Central Asia Pvt Ltd
 Casilica Humidin	 Atria Convergence Technologies Ltd.	 Hero Moto Corp
 GTI INFOTEL PVT. LTD.	 Timex Group Press On Engineering LTD	 Intec Infonet Pvt. Ltd.
 Siemens Ingenuity For Life	 Sysnet Global Technology Pvt.	 Preet Machines Limited.
 Alcon Meditech	 Alcon Meditech	 maxop eminece with excellence
 Sansera ideas@work	 Maksat Technologies (P) Ltd.	 Konnect Infratech Private Ltd.
 Befikr.in	 LNM AUTO INDUSTRIES PVT. LTD.	 Switzer Process Instruments Pvt. Ltd.
 Alpna Driven by Technology	 Flover Advontoge on your side	 Fluisys Earthmoving Services
 Lloyd Insulations (India) Ltd.	 JRG Automotive Industries	 Prasha Industries
 Digital India Security Services	 Yoma Technologies	 Kripa Automation
 Offcom Systems	 COMM-IT India	 K.P Reliable Technique



Anilesh Enterprises



Sai Aircon Services



COMM-IT India



Sanmarg Project



Fundoo Works



Technolinks Corporation



Zunax Energy Products



Apex Plastics



Marut Techno Tools



Minda Corporation



Punia Consultancy



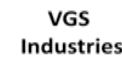
Extreme Thematic Design Co.



Intellitest Solutions



Resco Corporate Services



VGS Industries



Agency Eleven 100



Saarathi Projects



PP Rolling Mills Manufacturing



Preet Machines



Modern HVAC Solution



Pinaaki International



Creative Tools



Steelworks & Power Engineers



New Allenberry Works



Cooling Care Corporation



S.P Solutions Point



Kumar Printers



Optra Automation



Preet Machines Limited



Promoflex Display System



Savitri Telecom Services



Creative Tools



Exalta



Accurate Engineering



AnG India Ltd



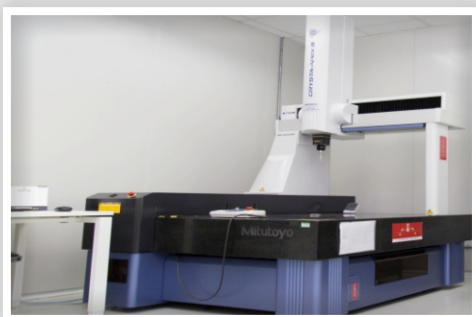
Precision Tech Enterprises



Training in Association with Industry as Knowledge Partner

In order to give real time equipment to trainees on machines.

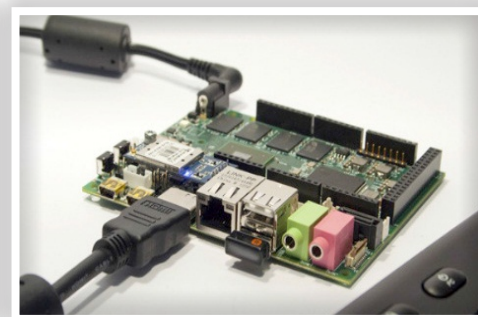
Linkage with Industry	Area of Association	Purpose
Schneider Electric India	Electrician & Solar Training	To impart training on electrician & solar energy for village electrifications.
Mitutoyo South Asia Pvt Ltd	Training on Coordinated Measuring Machines (CMM)	To strengthen the ongoing training on Quality Control & Inspection in the center.
T.R.E.E.S (Triumphant Robotics with Eminent Embedded Systems Pvt. Ltd.)	Arduino & Raspberry Pi Board based Advance Embedded System Embedded System Domestic & Companion Robotics	To train the Engineering students for Advance Embedded System based on Arduino & Raspberry Pi Boards and to impart training on latest technology of DRONE and Companion Robotic.
Forensics Guru	Cyber Security & Cyber Forensics	To train graduates on latest and advanced technologies to protect networks, computers, programs, mobile services and data from attack, damage or unauthorized access.
Delta Electronics	Automation & Robotics	To impart training of advance automation industrial and different Robotics applications.
Adroitec Information Systems Pvt. Ltd.	3D Printing for Prototype development	To train the Engineering students of AutoCAD for 3D Printing to develop Prototype after designing on computer.
TALLY Education Pvt. Ltd.	TALLY ERP 9	To train SMEs and other Accounting students for TALLY
SAP	To automate key business functions in financials, operations, and human resources for SME sector	To train commerce graduates having computer knowledge for business management software (ERP) using SAP-B1
Digitec Control System	Automation	Training on Automation PLC, SCADA, Servo Drivers, HMI and low cost automation solutions for industry.



Mitutoyo South Asia



Adroitec Information Systems



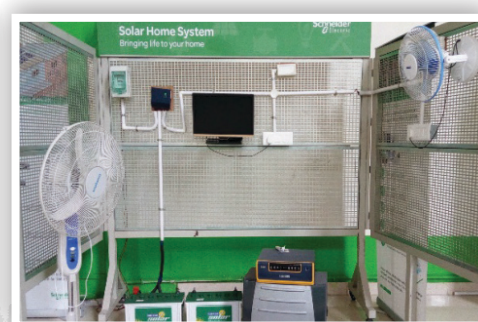
T.R.E.E.S



SAP



Delta Electronics



Schneider Electric

Successfully Employed trainees

A few successful trainees expressing their gratitude to the Centre are named hereunder:



Mr. Ramesh Singh Yadav, underwent "Graphic Design" Training in NTSC Okhla and now he is working as a Graphic Designer in "**Adaan Digital Solutions**". The course in NSIC added weightage to his profile leading to a professional job.

Mr. Arun Kumar "he is working with **Shri Bhagwati Machines** Rajasthan as a CNC Operator after completing my course of CNC with CAD from NSIC Okhla. Being busy with a job and earning is better than being jobless."



Mr. Nitin Katiyar "he learned a lot during his training in Cad/Cam course. He got good technical knowledge and practical classes that helped him in building his career. He got good opportunity in "Satya Engineering Works"

Mr. Manpreet Singh "he was counseled by the staff in Electrical & Electronics department to opt for a course that enhance his skills. Now he is working with a well known company **AiroxNigen Equipments Pvt. Ltd.**"



Mr. Rahul Deep "I joined NTSC, Okhla, to take training on **R & AC**. During this course my teacher guided me to the best knowledge. This course helped me becoming a part of **Uttanchal Aircon**. I believe success is not a destination it's a journey."

Mr. Hasnain, had been a trainee of "R & AC" in this Centre. On completing his course, he got selected in "**Atmos Aircon**". As Hasnain expresses, he is thankful to the faculties for their able guidance and appreciates NSIC for providing job opportunities.



Mr. Akash had been a trainee of "Advance Electrician" course in this Centre. After one year of training course, he got selected in "**The Central Public Works Department of India**". Akash expresses satisfaction for his new job. He is thankful to NSIC and the faculties who helped him making his career.



*Mr. Santosh, a bright student of NSIC Technical Services Centre, opted for Computerized Accounting & Tally ERP, to learn more about accounting through the Tally Software as he was already familiar with accounting. He gained lot of hands on experience over Tally. He is working in **M/s Star Telecom Network** as an Assistant Accountant.*

*Mr. Gaurav was a Trainee of Advance Electrician Course in NSIC Technical Services Centre. He came from Faridabad, which is 30 Km away, traveling daily from his place to the centre was not easy, however, that didn't stop him from gaining some knowledge for making his life better. He is successfully working as Electrician in State Electricity Board -**DHBVN** (Dakshin Haryana Bijli Vitran Nigam)*



*Ms. Jyoti was a Trainee of Diploma in Computer Applications (DCA) in NSIC Technical Services Centre. After completing her schooling, she wanted to do a Computer related course and saw DCA Course as a better option. While searching for a good institute, she saw an advertisement of NSIC in the newspaper. Then she made her choice to get admission in NSIC Technical Services Centre. She shares "I really like the way the teachers taught me everything about the course, and how helpful they were in every step of it.' She further says " I am very thankful to the centre for providing help of job placement; because of it I am working in company M/s **Giftingbazaar.com***

*Ms. Akanksha was a Trainee of Cad/Cam course in NSIC Technical Services Centre. Akanksha says "I appreciate NSIC for building my career. The training in NSIC has introduced me to the practical applications of engineering design through Cad/Cam programme and prepared me as a professional. I have got a job in a good company like **M/s BOSCH India**. I thank again NSIC and the faculties."*



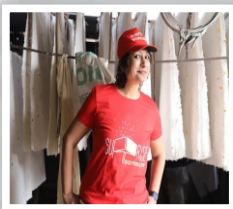
*Mr. Rohit Gupta was a trainee of Cnc with Cad course in NSIC Technical Services Centre, and now after completing his course he got a job in **M/s Century Metal Recycling Pvt. Ltd.** He is very thankful to the trainers for helping him in every step, making his future bright.*

*Mr. Vikash Singh had been a trainee of "R&AC " in this Centre. On completing his course, he got selected in a well known company "**Modern HVAC Solutions Pvt. Ltd.**". As Vikash expresses, he is very happy with his new job, and with his salary too, He is thankful to training in NSIC and teachers for showing him the right path, which led him to make his future bright.*



Self Employed Trainees

First Generation Entrepreneurs after being trained by NSIC are making their mark and generating employment for others



Pinky is an MBA and had worked with Worlds Largest advertising agency Ogilvy & Mather, Mumbai for 8 years and 2 years with Vodafone. On completion of enterprenureship training at NTSC Okhla she formed a Start up making recycled hand made paper. The most interesting thing about this paper is that they decided to embed seeds inside the paper while making it so that whenever paper bag or journal or box made of that paper is trashed, It will help grow PLANTS. Their tagline, "Why throw when we can grow" echoes, in true sense, in their products.



Ms Pinky Maheshwari underwent training on Paper Products in NSIC and decided to take up unique paper making technique by not using raw materials which require cutting of trees to make paper. Her start-up makes it from cotton rags/ waste cotton and paper waste, using environment friendly processes causing least wastage and avoids use of chemicals. Pinky says, "Normal Paper-making process uses energy, water and chemicals and produces waste. However, handmade paper made from recycled materials consumes 50 per cent less energy and up to 75 per cent less water than virgin paper. It also produces up to 90 per cent less wastewater and reduces air pollution by 70 per cent."



And while they do all of this, they empower women from rural India. More than 85 per cent of the artists she works with are women. "When you buy things from "Surprise Someone", you actually make someone smile," says Pinky. She is targeting to train 10,000 girls and make them self-employed by next 3 years.



Mr. Roshan Gawai was taxi driver but due to his medical condition, doctors suggested that he should give up driving as a profession. So, he joined the training in Enterprenureship Development in NSIC Technical Services Centre in the field of Soya Milk Production. He was also given support for resources like Machinery, funding and license related information by NSIC. He created unique product with the brand name "Ample Bean" which are ready to eat, there is no use any chemicals, the products are very much hygienic and aimed at health conscious population. None of the raw material or subsidiary/waste material generated during production of soya milk is wasted, they are used in making products like soya chaap, badi, biscuit & Namkeen.



Mr. Prashanth Latha, A resident of Gorakhpur setup his new unit on Soya Milk after taking the training in NSIC Incubator. He started his own unit Anna poorna Food Product with an investment of 5 lakh. He is selling the product in local market and getting good response and plans to take it toother cities also. NSIC wishes him the best in his endeavor.



Mr. Mohammed Afzal from Krishna Nagar underwent training in Entrepreneur Development Programme in NTSC, Okhla and selected the project of Computer Embroidery as per the suitability to his area and acquaintances. After completion he has setup one unit with name New India Fashion. Machinery has been taken on rent. He has employed 6 persons and made several regular clients. Keeping his spirits high he says that In a few years time, he will be able to purchase his own machines.

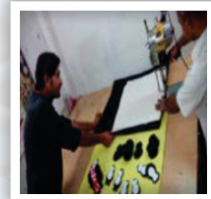


M/s. New India Fashion is today a production unit of wide variety of Computer embroidery for home furnishing & Ladies suit etc. supplies embroidered clothes to industry.



Sarita Kumari, a Management student & House wife took NSIC EDP training program where she gained knowledge about how to create and tap the urgent needs of the market. She found and discussed in the neighbourhood regarding the electricity bill at that time and thought how it could be reduced by increasing use of energy from renewable and natural resources. This inspired her to start research on the solar power generation and how it worked, thereby, starting her entrepreneurship journey, from a small room in her house with just Rs.2 Lakh, which she had saved in the past 3 years from her extra pocket money. She faced lots of ups and downs initially but finally her turning point came when she charted out on a new enterprise called LANSISO INNOVATION TECHNOLOGIES providing solar power and other related end to end solutions to her clients. She became an entrepreneur at the age of 36.

Mr. Pramod Panwar, a commerce graduate belonged to a service class family. He took up a job in export sector of handicrafts initially and then he was in trading of soft toys. While trading toys, he was not satisfied with the quality of toys and thought of manufacturing himself but he needed the training and guidance to manufacture. Mr. Pramod got himself enrolled at NSIC to learn soft toy manufacturing and could start his own setup with investment of Rs. 2 lacs initially. He is running the show successfully and producing toys of international quality in his unit named Touchy Exports. He has given employment to 50-60 persons. His toys are well accepted in the domestic markets.



Ms. Anuradha resident of Dwarka setup her new unit. She chose Spice Grinding & Packing as her project and got all the information during her training to start her work. Smart Creative Box Trading Co. was initiated with an initial investment. She is giving service in local market and getting good response and plans to take it to other cities also.

Mr. J.P. Wadhvani, a commerce graduate set up his new unit on manufacturing Toilet roll, Napkin paper and K. towels in NOIDA after taking EDP training in NTSC, Okhla with self-funding of Rs. 30 lacs approx.. Presently he is running his unit with 10 employees with annual turnover of Rs. 22 lacs. He is selling to 15 companies with major clients as Wave Cinemas and Yo-China. Negotiations are going on with Domino also.





NABL Accredited Laboratory

Material Testing Facilities for Industries

The Centre has NABL accredited Testing facilities for testing materials used by the industry. The laboratory has calibrated machines/ equipment for testing parameters as per Indian Standards.

Mechanical & Chemical properties of various materials as detailed below, are tested.

PRODUCTS	TYPE OF TESTS COVERED
<p>MECHANICAL & CHEMICAL TESTING</p> <ul style="list-style-type: none"> • Ferrous and Non-Ferrous Metal & Alloys IS: 1786, 1870, 1264, 318, 26, 27, 1285, 733, 737 • Steel Pipes and Tubes IS: 6631, 3601 • Building Materials Steel Bars, Cement, Concrete Cubes, Bricks, Man-hole Covers, Pavers Blocks, Aggregates, Water Proofing Compound, Admixture, Mix Design of Concrete, Stones, Granite, Tiles, Concrete Masonry Unit (AAC Blocks), Timber, Plywood, Flush Door Shutter, Block Board, Pre-laminated/ Particle Board, etc. IS: 269, 455, 1489, 8112, 12269, 516, 1077, 12894, 13757, 1726, 5455, 12592, 15658, 383, 399, 2202, 1659, 12823, 3087, 3097, 303, 280, 2185 (Partt-1, 2, 3), 15622, 9103, 2645, 10262 • Plastic Pipes IS 4984, 4985, 3076 • Steel Wire and Ropes – IS: 4454 (Part-1) • Steel, Cast Iron, Copper & its alloys IS:1870, 1264, 318, 319, 26, 27, 1285, 733, 737 • Construction Water – IS 456 and Allied products • PPE Kit - as per IS 16603 	<ul style="list-style-type: none"> • Tensile Strength, Yield Stress, Elongation • Bend, Reverse Bend • Hardness • Flattening • Compressive Strength • Setting Time, Consistency, Soundness • Flakiness Index • Impact Value • Modulus of Elasticity • Modulus of Rupture • Screw Withdrawal Strength • End Immersion, Glue Adhesion • Shock Resistance • Resistance to Steam, Crack, Stain • Mycological • Density/ Specific Gravity • Drying Shrinkage • Scratch Hardness (Mho's Scale) • Chemical Resistance • Craze Resistance • Transverse Strength, Resistance to Wear • Durability • Anodic, Zinc, Powder Coating • Hard Chrome, Nickel Chrome Plating • Chemical Analysis and Related tests • Synthetic Blood Penetration Test, Tensile, GSM, etc.

Some of the esteemed clients using our Testing Facilities

- CPWD
- Indian Oil Corporation
- Hindustan Petroleum Corporation
- Power Grid Corporation
- State Bank of India
- National Building Construction Corporation Ltd.
- Employees Provident Fund Organization
- RITES Ltd.
- Delhi Agriculture Marketing Board
- Military Engineering Service
- Hindustan Life Care Ltd.
- Globe Civil Projects Pvt. Ltd.,
- National Highway Const. Company
- ShapoorjiPallonji Co. Ltd.
- Garg Group Noida
- EPIL, NTPC, DSIIDC, HPCL, PWD, NDMC, UPRNN Ltd., UPSIDC
- Siemens Ltd.
- Voltas Ltd.
- Godrej Ltd.
- J. Kumar Infra Projects Ltd.
- Godrej Ltd.
- Infra Projects Ltd
- PDOP Infrastructure Pvt. Ltd.
- B. G. Shikre Const. Tech. Pvt. Ltd.
- Ahluwalia Contracts (India) Ltd.
- RCC Developers Ltd.
- CHD Developers Ltd.
- DebonoFlexon Ltd.
- Vinar System
- Era Construction (India) Ltd.
- Kamaladitya Construction Pvt. Ltd.
- NKG Infrastructure Ltd.
- L&T Ltd.



Job Work Facilities for Industries

To support MSMEs to produce quality components and manufacture plastic moulds in global standards centre is equipped with latest technology machines such as VMC, CNC Lathe, CNC W/C, Die Sinking Machine, Automatic Plastic Injection Moulding Machine, Induction Heat treatment, CMM, Roughness Tester, Roundness Tester etc.

Facilities available:-

Machine Name: Vertical Machining Centre

Make: Lakshmi Machine Works Ltd.

Model: JV55

Table Size: 900 x 430 mm

Stock: 575 x 410 x 460 mm



Machine Name: CNC Turning Centre

Make: Lakshmi Machine Works Ltd.

Model: Smarturn

Chuck Size: Dia. 165 mm

Max. Size: Dia. 200 x 262 mm



Machine Name: CNC Wire Cut

Make: S&T Excetek

Model: EX40

Max work piece size: 750 x 550 x 215 mm

Max table travel: 400 x 300 mm

Aux. table travel: 80 x 80 mm



Machine Name: Die Sinking Machine

Make: Electronic India Ltd.

Model: 500 x 300 ZNC

Work table size: 500 x 300 mm

Stroke: 280 x 200 x 250 mm



Machine Name: EDM Drilling Machine

Make: Ocean Technologies Co. Ltd.

Model: OCT 3525NA

Work table size: 450 x 300 mm

X&Y axis travel: 350 x 250 mm

Z axis travel: 200 + 300 mm

Max Height of work piece: 300mm

Max electrode length: 400 mm



Machine Name: Automatic Plastic Injection Moulding Machine

Make: S&T Machinery (P) Ltd.

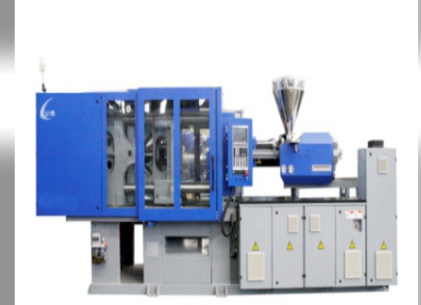
Model: STMD80

Shot Size: 116 g (ps)

Injection Pressure: 192 mpa

Clamping Force: 800 K.N.

Clamping Stroke: 330 mm



Machine Name: Surface Grinding Machine

Make: HMT Ltd.

Model: 455H

Table Size: 600 x 300 mm



Machine Name: CNC CMM

Make: Mitutoyo

Model: Crysta Apex S

Work Table Size: 1000 x 700 x 600 mm



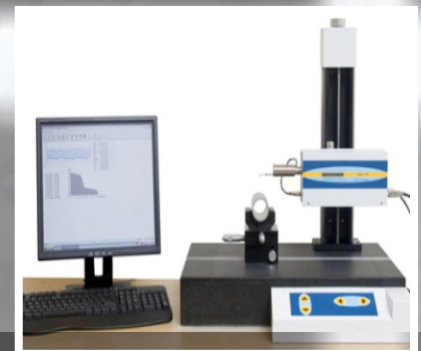
Machine Name: CNC Induction Hardening Machine

Make: Vel Electronic

Range: 9mm to 100 mm

Length: 500mm

Case Depth: 2 to 5 mm



Machine Name: Roughness Tester

Make: Mitutoyo

Max Dia-400mm; Measurement Height-200mm

Measuring Range

Outer : 250mm

Inner : 5mm

Machine Name: 3DCNC CMM

Make: Mitutoyo

Range: 700 x 1000 x 600 mm

Loading Weight: 1000 kg

Max. drive speed: 519 mm/s (3-axis)



Association with Technical Institution & Organisation

Mitutoyo

Thapar University

AMITY UNIVERSITY

ओएनजीसी
ONGC



Veltech
Dr.RR & Dr.SR
University
(Estd. u/s 3 of UGC Act, 1956)



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CGSC Capital Goods Skill Council
CAPITAL GOODS SKILL COUNCIL

Telecom Sector
Skill Council

APPAREL MADE-UPS & HOME FURNISHING
SECTOR SKILL COUNCIL



The centre is continuously growing year on year. Students and Industries get best of the facilities at our centre. All the departments in the centre have high speed Internet, latest equipment and machinery, original and updated software and hardware, AC classrooms, etc. Latest technologies are implemented in our labs and workshops. Up-to-date design and technical solutions are provided to the industries through common facility services.

The centre is affiliated with Instrumentation, Automation, Surveillance and Communications Sector Skill Council, Capital Goods Skill Council, Construction Skill Development Council, Apparel Made-ups & Home Furnishing Sector Skill Council and Telecom Sector Skill Council.

We have MOUs with Apollo MedSkills in Healthcare sector, Karorimal College, Amity University, Thapar University and VelTech University.

Our Knowledge partners Partners TREES, Mitutoyo, Adobe, Schneider, Delta and ABB. We conduct variety of Job Oriented and Industry centric training programmes which cater to students from 8th pass to Post Graduates with emphasis on Entrepreneurship.



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

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