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N S I C

INDUSTRY CENTRIC Job Oriented Training & Material Testing Facilities



For further details of Training programmes/ Common Facility Services, please contact:

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National Small Industries Corporation Ltd. (NSIC), an ISO 9001:2015 certified Government of India Enterprise under Ministry of Micro, Small and Medium Enterprises (MSMEs), has been working to fulfill its mission of promoting, aiding and fostering the growth of MSMEs in India and abroad since its establishment in 1955. A large network of Zonal, Branch offices and Technical Services Centres cater to the MSMEs and Training and common facility services in the country.

NNSIC Technical Services Centre, Neemka is recently set up in the Industrial Township of Faridabad District of Haryana in a built-up area of 87300 Square feet with highly advance infrastructure to offer conventional to Hi-Tech training and skill development program to the learners to nurture them for employment and self-employment opportunities. The Centre also offers common facility services of job work and testing of wide range of Industrial metals, alloys and building material.

NSIC Technical Services Centre, Neemka, Faridabad

The core area of operation of the Centre are:

- Industry centric skill development training.
- Facilitating the first generation entrepreneurs through Livelihood Business Incubation program.
- Providing common facility services in the area of Material Testing, job work on machines.



Training

The trainings are broadly classified into:

- Mechanical
- Electrical and Electronics
- Information Technology
- Entrepreneurship Development Program
- Computer Science
- Fashion Designing

MECHANICAL

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

The programmes in Mechanical Stream are :

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

The course includes introduction to Metrology, application of different measuring Instruments, Non-Destructive Testing (NDT), Co-ordinate Measuring Machine (CMM), Contour Tester, Roughness Tester, Roundness Tester, Digital Height Master, Digital Air Guage, Profile Projector etc.

- **Machinist with CNC**

Theory & Practical training on Fitting, Drilling, Turning, Milling, Grinding using conventional Machine & Operation Machining, Practices on CNC Machines.

- **Welding Operation**

Course designed for ITI / Diploma students includes theory and practice on welding simulators and hands-on experience in real-time environment like Gas, MAG, TIG, MIG, Plasma, Spot welding etc.



Duration : The above courses have duration varying from 15 days to 12 months.

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

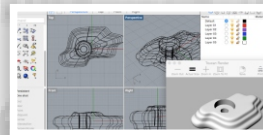
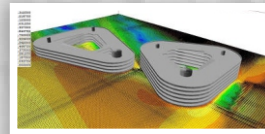
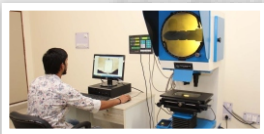
Programmes in Design Training for Mechanical / Civil Engineering Students

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

The course covers numerical programming and operation using FANUC controls of advanced manufacturing.

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

This course covers fundamental concepts of mechanical engineering drawings, various types of 2D orthographic projections, 1st Angle & 3rd Angle Projection, 3D Pictorial Projections, Sectioning, Development of Surfaces, Geometrical Dimensioning & Tolerances etc.



Polytechnic Diploma Courses (Approved by AICTE)

Raja Jait Singh Government Polytechnic institute run by NSIC Technical Services Centre, Neemka, introduced three years polytechnic diploma courses in different streams started in year 2018. The diploma courses provide opportunity to the students to undergo three years training program as per AICTE approved and HSBTE affiliated course curriculum. The diploma courses open up much wider to opportunity to the students to acquire suitable job or pursue higher study post diploma course in following engineering streams:

- Civil Engineering
- Mechanical Engineering
- Fashion Designing
- Electrical Engineering
- Computer Science
- Electronics and Communicaton

Electrical and 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.

- **Industrial Robotics**

Robotics is a branch of engineering that involves the conception, design, manufacture and operation of robots. This field overlaps with electronics, computer science, artificial intelligence, mechatronics & automation.

Course Includes- Introduction of Robotics Field, Jogging of Robots & Coordinate system, Programming Structure overview, Routines, Modules & Data, Move Instructions Brief description of all Instructions, MIG and TIG arc welding 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).

- **Mechatronics**

Mechatronics is a multi disciplinary 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.

- **Electrician**

An electrician is a trades person 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.

- **Motor Winding and 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 winding 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



Duration : The above courses have duration varying from 15 days to 12 months.

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

Common Facility Services

Testing of Industrial Metals, Alloys and Building Material

Centre offers testing facility with advance and sophisticated machines for testing of chemical and mechanical properties of wide range of ferrous, nonferrous metals and alloys and specific material. Complete testing of materials is carried out on Optical Emission Spectrometer and Optical profile projector, Computerised Six Pillar Universal Testing Machines, Computerised Tensile Testing Machine, etc. The laboratory performs tests in compliance with IS 1599, 1608 & 1786 for UTM, IS 1608 for TTM & IS 2754 & 988 for profile projector respectively and as per customised specification in controlled Laboratory and Environmental conditions.

High- End Optical Emission Spectrometer for Metal Analysis:

Emission Spectrometer using arc and spark excitation is the perfect method for trace metal analysis to determine the chemical composition of metallic samples. This process is widely used in the metal making industries, including primary products, foundries, die casters and manufacturing. Due to its rapid analysis time and internet accuracy, arc spark optical emission spectroscopy systems are most effective in controlling the processing of alloys.

Element analysis of: Iron & steel alloys and traces, Aluminum alloys and traces, Copper alloys and traces, Nickel alloys and traces, Cobalt alloys and traces, Magnesium alloys and traces, Tin alloys and traces, Lead alloys and traces, Titanium alloys and trace.

Optical Profile Projector

Profile projector is widely used for complex shape stampings, gears, cams, threads and comparing the measured contour model. This Optical Profile of projectors is used to check relatively small engineering components with the working standard.

Universal Testing Machine (UTM):

Universal Testing Machine (UTM), also known as a universal tester, materials testing machine or materials test frame, is used to test the tensile strength and compressive strength of materials.

Computer Tensile Testing Machine

Tensile testing is a fundamental materials science and engineering test in which a sample is subjected to a controlled tension until failure. Properties that are directly measured via a tensile test are ultimate tensile strength, breaking strength, maximum elongation and reduction in area.

SPARE CAPACITY AVAILABLE

Conventional Lathe	Pedestal Drill
Milling	Bench Grinder
Toolroom Cutter Grinder	Shaper
Surface Grinder	M1TR
Cylindrical Grinder	Band Saw
Radial Drill	

CNC Machine

- VMC
- CNC Turning



Profile Projector



Surface Roughness Tester



Optical Emission Spectrometer



Tensile Testing Machine



Universal Testing Machine



2D Height Master

Note :- For More Details, Please Visit www.rjgp.edu.in

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 with the knowledge of essential IT Tools, Internet Technology, Programming languages like C, C++, Java or 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 windows server 2012 and Linux server etc.

Advance Networking

The 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 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, DTP (Desktop publications)

Computer Programming Languages

C, C++, Introduction to OOPS, Python, Java Programming, Genetics Frame work, I/O fundamentals, Console I/O and File I/O, Creating Graphical User Interface (GUI), Oracle Developer/DBA, Android application, DOT Net Technologies, Cloud computing and SQL server. Trainees may opt one or more languages to equip themselves to do programming for development.

Website Designing And Development

This course enables to design, develop and maintain static and dynamic websites, Div. & Table based animated websites and customised web applications using photoshop, html, css, javascript, query, ajax, dreamweaver, mySQL, Core PHP, wordpress, joomla, flash.

SQL Server

In this course one can learn how to implement and manage database solutions with powerful reporting feature. 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 introduces 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, Sub netting, Routing and Switching, security and wireless networks etc. After the completion of training the candidates are ready to work with CISCO Routers and Switches in any networking environment.

Software Testing

The course various important aspects and basics of C, C++, Java, Database, Manual Testing and latest software automation tools.

Advance Java

Advance Java Programming is meant for the 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 services 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 handled devices.

MS-Office & Internet

In this course, one gains all basic skills that one needs to create a wide range of standardise business documents. Also it will be possible to create complex documents in Microsoft office by adding components such as customised lists, tables, charts and graphics. Personalised Microsoft Tools can also be created.

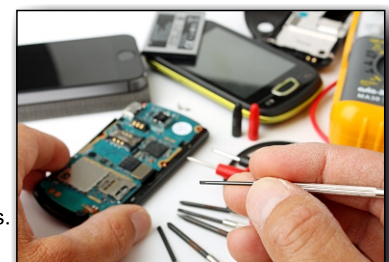
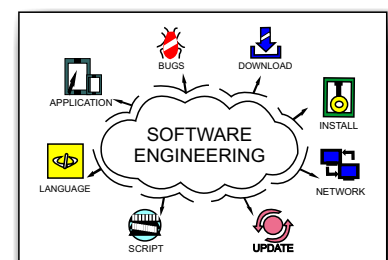
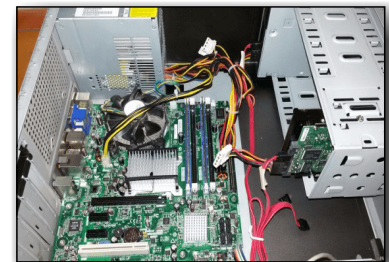
Linux Administration

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 base shell scripting/programming which is essential for any system admin. Then it moves on to describe important concepts and aspects of Linux Sub System 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 super power functions can solve complex problems.
- Using Pivot tables and Power pivots to turn raw data into clear information that supports key decisions.



● Computerised Accounting & Tally ERP/ Finance Executive

With the fast-changing business scenario, experts in Taxation, Payroll Accounting, Exercise, 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 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.

● Digital Marketing & Entrepreneurship

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.

Following training programs are also proposed to introduce in future:

- Multimedia & Animation
- Graphic Design
- Android Application
- Laptop Repair Course
- Mobile Phone Repair Course



Duration: The above courses have duration varying from 15 days to 12 months.
Eligibility: The students with qualification of 10th class to Engineering graduates can join these programmes.

Entrepreneurship Development Program (Livelihood Business Incubation)

In addition to the skill development, centre has introduced livelihood business incubation programme for small enterprises development. Through this initiative, NSIC engages youth, including un - employed, with an aim to inculcate entrepreneurial skills in them by imparting hands on training on working projects.

Projects for Livelihood Business Incubation:

- Automatic Socks Knitting
- Computerised Embroidery
- Bakery Product Making with Packaging
- Soya Milk Extraction
- Fashion Designing/Tailoring and Cutting
- Perfect Book Binding
- Colour Printing
- Paper Cup Making
- Beautician and Cosmetology

Objective:

- Self-Employment generation among Aspiring Entrepreneurs
- Accelerate the development of New Small Enterprises
- Integrated support by providing hands on training on working projects
- To boost the development of small enterprises in the manufacturing sector

Methodology:

- 6-week training is imparted to the student to cover entrepreneur skill development
- Hands-on practical training
- Guidance for project profile preparation
- Application for fund proposal to the bank
- Support services to start the business

Post Training Support:

Assistance will be provided to the prospective Entrepreneurs in the following:

- Procedure of Procuring Equipment and Machinery
- Installing & Commissioning of Projects
- Monitoring & follow up interactions meeting to monitor the status



Deliverable:

- Entrepreneur business skill development
- Projects/Product selection and Opportunity Guidance
- Identification of appropriate technology
- Hand on experience on working projects
- How to setup an Enterprise
- Facilitation on project record preparation
- Facilitation on fund management through banks
- Interaction with project suppliers for Machine Technology supply

Course Contents and Support:

- Entrepreneur Business skill concept
- Quality of successful entrepreneurs
- Opportunity guidance to the selected candidates
- Procedure of setting up enterprises
- Some common start up problems
- Product Packaging, Costing and Pricing
- Marketing
- Hands on experience on operation of working projects
- Standardization of Production and Quality management
- General banking procedure, Basics Book keeping and Accounting

Eligibility : Students with 8th/10th class pass with minimum 18 years of age.

Training Courses For Women

● Certificate in Fashion Designing

One year Fashion Designing programme designed for students who want to take up a creative career in clothing and apparel industry. Students learn design skills, merchandising, 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 programme 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.

● Advance Beautician and Cosmetology

Six months advanced 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 treatment for the same. This program 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.

Training in Association with Industry as knowledge Partner

In addition to the on going training activity, the centre had taken initiative to make linkage with industry to share their knowledge on latest technologies to train.

Details of associates are as under:

Linkage with Industry	Area of Association	Purpose
Delta Electronics	Automation & Robotics	To impart training of advance automation industrial and different Robotics applications.

* Centre is also in discussion with other MNCs and corporates including Schneider electrical India and Maruti Suzuki to associate them as knowledge partners.



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