



भारत सरकार
Government of India
कौशल विकास और उद्यमशीलता मंत्रालय
Ministry of Skill Development & Entrepreneurship
प्रशिक्षण महानिदेशालय
Directorate General Of Training



Skill India
कौशल भारत - कुशल भारत

राष्ट्रीय कौशल प्रशिक्षण संस्थान, कानपुर

NATIONAL SKILL TRAINING INSTITUTE, KANPUR

TRAINING BROCHURE

2026 - 2027



सी. टी. आई चौराहा, संजयनगर, डाकघर – उद्योगनगर,
कानपुर-208022

CTI Chouraha, Sanjay Nagar, P.O-Udyog Nagar, Kanpur,
Uttar Pradesh - 208022

INTRODUCTION



The National Skill Training Institute (NSTI)(formerly known as Central Training Institute (CTI)/Advanced Training Institute (ATI) was set up by the Government of India in the year 1960 with the objective to train Vocational Instructors and industrial workforce.

This is a prestigious Institute in the Country functioning with the objective of meeting the training demands of the Industries and Training Institutions in the Country. The institute is having well equipped Workshop, Laboratories, Administrative Building, Audio Visual Section, Library, Trainees Hostel, Dispensary and Staff quarters etc.

The institute conducts courses in both long term and short term. The long term courses comprise of the Crafts Instructor Training Scheme (CITS) and the Craftsman Training Scheme (CTS).

In order to upgrade and update the skills of serving industrial workers, the Advanced Vocational Training Scheme (AVTS) is in operation since 1977. Under the scheme, training in selected skill areas is being imparted through short-term modular courses of one to six weeks duration. Tailor made courses suiting to the specific requirements of industrial establishments are also offered.

VISION

To provide state-of-the-art & industry relevant training programs embedded with deep commitment, innovation in teaching which helps people thrive.

MISSION

To continuously upgrade the skills of industrial workforce for higher productivity and market relevant

Bridging the gap between courses offered and industries for suitable placement for young generation in technical fields.

OBJECTIVE

- i** To raise the quality and quantity of the industrial production by systematic training of potential workers.
- ii** To enhance employability of educated youth for skilled and supervisory jobs through training.
- iii** To upgrade and update the skills of technical personnels of industries, Govt. Departments and Organizations for diversification in production and keeping them abreast with the technological advancement.
- iv** To conduct need-based training Program for industries, departments and organizations in the form of tailor-made programs
- v** Rendering consultancy in training / production techniques.

6. TRAINING SCHEMES RUNNING IN NSTI KANPUR

6.1 Long Term Training (Duration 1 To 2 Years)

6.1.1.CRAFT INSTRUCTOR TRAINING SCHEME (CITS):

Craft Instructor Training is given to ITI/Degree/Diploma pass trainees and Instructor of ITI in various trades in this institute.

a. TRADES AVAILABLE

1. Aeronautical Structure and Equipment Fitter (ASEF)	8. Mechanic Motor Vehicle
2. Computer Hardware & Networking Maintenance	9. Sewing Technology
3. Computer Software Application	10. Turner
4. Dress Making	11. Welder
5. Electrician	12. Fitter
6. Electronics Mechanic	13. Catering & Hospitality
7. Machinist & Operator Advance Machine Tools	14. Information Technology

b. ELIGIBILITY FOR ADMISSION IN CITS

NTC / NAC / Diploma / Degree in relevant trade / Branch of Engineering

c. FEE STUCTURE FOR LONG TERM CITS COURSE:

Particulars	Private-General/OBC (Boys)	Private-General (Girls)	Private-SC/ST/EWS/PH (Boys)	Private-SC/ST/EWS/PH (Girls)
Admission Fee	100	100	25	25
Registration Fee	50	50	NIL	NIL
Caution Deposit	250	250	250	250
Gymkhana Fee	100	100	NIL	NIL
Library Deposit	20	20	20	20
Tuition Fee	1800 (Yearly)	NIL	600 (Yearly)	NIL
Examination Fee	100	NIL	25	25
	Rs. 500 adjusted Counselling fees	Rs. 500 adjusted Counselling fees	Rs. 500 adjusted Counselling fees	Rs. 500 adjusted Counselling fees
Total	1920/-	20/-	420/-	NIL

d. SELECTION:

Admission is offered in the month of August every year on the basis of computer based all India Common Entrance Test (AICET) which is conducted centrally by DGT HQ through NIMI Chennai.

e. ADMISSION CYCLE:

CITS Method of Admission-
Through All India Entrance
Exams

CTS Method of
Admission – Merit Basis

6.1.2.CRAFTMEN TRAINING SCHEME (CTS):

CTS training is given to high school passed candidates to provide them employable skills to cultivate & nature a technical & industrial attitude in following new age trades.

a. TRADES AVAILABLE

- ① Aeronautical Structure & Equipment Fitter (ASEF)
- ② Solar Technician (Electrical)
- ③ Artificial Intelligence & Programming Assistant (AIPA)
- ④ Refrigeration and Air Conditioning Technician (RACT)
- ⑤ Architectural Draughtsman

b. ELIGIBILITY: Passed 10th class examination.

c. FEE STUCTURE FOR LONG TERM CTS COURSE:

Particulars	For GEN/OBC (Boys)	For GEN/OBC (Girls)	SC/ST/EWS/PH/EX SER. (Boys)	SC/ST/EWS/PH/EX SER. (Girls)
Admission Fee	100/-	100/-	25/-	25/-
Registration Fee	50/-	50/-	NIL	NIL
Caution Deposit	250/-	250/-	250/-	250/-
Gymkhana Fee	100/-	100/-	NIL	NIL
Tuition Fee	1800/-	NIL	600/-	NIL
Examination Fee	100/-	NIL	25/-	NIL
Total	2400/-	500/-	900/-	275/-

d. SELECTION: On Merit basis.

6.2. SHORT TERM TRAINING:-

6.2.1.ADVANCE VOCATIONAL TRAINING SCHEME (AVTS) (or Short Term Courses):

Advance Vocational Training Scheme (AVTS) is for 1-week/2-week training for industrial Workers/ Technicians/ Supervisors/Engineers/Instructor of Govt. & Pvt in a particular module for their skill up gradation. These courses are designed in various modules as per the need of industries for their personnel. In this institute emerging sector are chosen to give training to industrial man power and private technical student. These are tailor made course, designed and conducted as per the need of Industries / Establishments.

a. ELIGIBILITY CRITERIA FOR AVTS PROGRAMME

- i Minimum qualification ITI/Diploma /Engineering in relevant trade or branch of Engineering. Appearing students in these trade/branches may also apply for training.
- ii Industrial man power with ITI/Diploma/Engineering with some experience may apply or take admission in these courses.
- iii Government Employees/Officers, Public sector employees and big and small industry personnel with technical qualification can also come for training.

6.2.2.TAILOR MADE COURSES:

The Institute offer tailor made courses which fits into the demand/requirements of industries or organization. This can be deployed after the needs of the industries/organization are assessed and discussed with the training I/C /Principal of the institute.

b. FEES STRUCTURE:

- I. Application fee cum Registration fee Rs. 100/- per participant per course
- II. Gymkhana fee @ Rs. 10/- per courses per participant
- III. Mode of payment: Payable in form of DD in favor of "DDO, RDAT-Kanpur, payable at Kanpur at the time of admission or through online.
- IV. Limited Hostel facilities are also available on first come first serve basis. Hostel rent Rs.100/- per day/participant. Participants should bring winter clothing between November to March as atmospheric temperature drops up one degree centigrade in Kanpur during winter.
- V. Tuition Fees for short term courses

Sl. No	Category	Rate of Tuition fee Per Trainee - Per Week	
		Regular Schedule	Tailor Made
1	Nominees from Govt. Departments	Rs. 1250.00	Rs. 2500.00
2	Nominees from medium and large-scale industries both public and private sector.	Rs. 2000.00	Rs. 4000.00
3	Nominees from small scale industries and Pvt. Candidates	Rs. 1000.00	Not Applicable
4	Nominees from Institute like Polytechnic Engineering Colleges & another related Tech. Institute etc.	Rs. 1000.00	Rs. 2000.00
5	Nominees from State Directorates	NIL	NIL

c. GENERAL INSTRUCTIONS:

i	Nominations should reach the institute in advance at least 15 days before the commencement of each course.
ii	Payment of tuition fee is to be made on the date of commencement of the course itself by Demand Draft duly crossed in favor of "Drawing & Disbursing Officer", RDAT-UP payable at Kanpur.
iii	Saturday and Sunday are holiday working hours are from 09:00 AM to 05:30 PM.
iv	If Monday is a holiday, the scheduled course will commence on next working day and if Friday is a holiday, the course will conclude on the previous working day.
v	To reach the institute: From Kanpur railway station (City Side) (approx. 10 Kms) from where Share Auto Rickshaws are available to CTI Chauraha (Govind Nagar) Kanpur from various locations in Kanpur.
vi	All correspondence should be addresses to Regional Director, National Skill Training Institute, Govind Nagar Post- Udyog Nagar, Kanpur-208022

AVTS SHORT TERM TRAINING COURSES DETAILS: 2026-27**1. INFORMATION TECHNOLOGY**

(Course Coordinator: Shri Ankit Agrawal, Vocational Instructor)



Course Code	Name of the Course	From	To	Course Contents
10101	Artificial Intelligence and Machine Learning	13.07.2026	17.07.2026	Introduction to AI, Applications, Market Opportunities and Career in AI, Building First AI Application-Chatbot, Introduction to Machine Learning, Regression, Decision Tree Learning, Artificial Neural Network, Reinforcement Learning
10102		20.07.2026	24.07.2026	
10103		03.08.2026	07.08.2026	
10201	Cloud Computing	17.08.2026	21.08.2026	Introduction to Cloud Computing and Visualization, Microsoft Azure, Cloud Architecture, Storage Services, Compute Services, Networking Services, Database Services, Cloud Security, Cloud Deployment Model, Application Service and Functions API, Cloud Computing Applications and Important Cloud Terminology.
10202		07.09.2026	11.09.2026	
10203		14.09.2026	18.09.2026	
10301	Cyber Security	21.09.2026	25.09.2026	Introduction to Cyber Security, Cyber Attacks, Network Defence Tools, Cyber Crime Law and Investigation, Cyber Security Techniques, Cyber-attacks Measures, Hacking Techniques.
10302		12.10.2026	16.10.2026	
10303		26.10.2026	30.10.2026	
10401	Programming Using Python	02.11.2026	06.11.2026	Introduction to Python, Python Basics, Python Program Flow, Functions and Modules, Python Arrays, Collections in Python, Exceptions Handling, Input and Output, Classes in Python.
10402		09.11.2026	13.11.2026	
10403		16.11.2025	20.11.2026	

2. CAD/CAM/CNC TURNING/3D PRINTING

(Course Coordinator: Shri Ravi Pandey T.O. ; Shri Bharat Yadav T.O.; Shri A.K.Kesarwani T.O.)



Course Code	Name of the Course	From	To	Course Contents
20101	Auto CAD 2D Drafting	13.07.2026	17.07.2026	Introduction to auto cad, drawing layouts, tool bars, file creation, save, open existing drawings, creation of drawing sheet as per ISO, create line, break, erase, undo, absolute co-ordinate system related exercises using absolute co-ordinate system relative co-ordinate system and polar co-ordinate system. Trim, offset, fillet, chamfer commands, circle commands, move, copy, array, insert block, make block, scale, rotate, hatch commands creating templates, inserting drawings, layers drawing practice using creating templates, inserting drawings, layers dimensioning drawings, creating styles in dimensioning,
20102		20.07.2026	24.07.2026	
20103		27.07.2026	31.07.2026	
20104		03.08.2026	07.08.2026	
20201	3D with Auto CAD	10.08.2026	14.08.2026	Introduction to 3D, 3D primitives, extrude, revolve command-drawing practice using 3D primitives, extrude, revolve command setting user co-ordinate systems, rotating, plotting, print preview 3D drawing by using user co-ordinate systems. Plotting, print
20202		17.08.2026	21.08.2026	
20203		07.09.2026	11.09.2026	
20204		14.09.2026	18.09.2026	
20301	Operation and Programming of CNC Turning	21.09.2026	25.09.2026	Principles of CNC system & elements of CNC machines preparatory and miscellaneous codes different coordinate systems work offset, tool offset's part program of turning practice on simulation system selection of tools, speed, feed & depth of cut subroutine programming, machine cycles editing & proving the part program basic machine operations loading of component & machining of components.
20302		05.10.2026	09.10.2026	
20303		12.10.2026	16.10.2026	
20304		26.10.2026	30.10.2026	
20401	Master Cam	02.11.2026	06.11.2026	Design and drafting 2D and 3D models, tool path creations, tool path verifications, NC part program generation, Surface design and Machining using Master Cam, Understand advanced features of CAD/CAM
20402		09.11.2026	13.11.2026	
20403		16.11.2026	20.11.2026	
20501	Additive Manufacturing /3D Printing	30.11.2026	04.12.2026	Introduction about 3D printing/ Additive manufacturing, 3D printing process, Various 3D printing technology and application of Additive manufacturing.
20502		07.12.2026	11.12.2026	
20503		14.12.2026	18.12.2026	

3. AUTOMOBILE ENGINEERING

(Course Coordinator: Shri A.K.Kesarwani Training Officer)



Course Code	Name of the Course	From	To	Course Contents
30101	Operation and Maintenance of MPFI and CRDI Engine	17.08.2026	21.08.2026	Introduction and working principle about MPFI and CRDI engines, Demonstration and operation of MPFI and CRDI engines, Maintenance and trouble shoot of MPFI and CRDI engines using diagnostic scanner.
30102		12.10.2026	16.10.2026	
30201	Exhaust Gas Analysis for Diesel & Petrol Engine	07.09.2026	11.09.2026	Exhaust Gas analysis of petrol engine, LPG, CNG engine using Multi Gas Analyzer of Diesel Engine using smoke meter.
30202		26.10.2026	30.10.2026	
30301	Operation and Maintenance of Automobile AC	14.09.2026	18.09.2026	Introduction HVAC system in automobile system in automobile car, operation & maintenance of Automobile AC.
30302		02.11.2026	06.11.2026	

4. WELDING SECTION

(Course Coordinator: Shri R.N.Savita Training Officer)



Course Code	Name of the Course	From	To	Course Contents
40101	Advanced Welding Technology	03.08.2026	07.08.2026	Introduction of Welding Process, about Fusion Welding, MMAW, TIG Welding, MIG/MAG-CO2 Welding, Gas Welding.
40102		14.09.2026	18.09.2026	
40103		26.10.2026	30.10.2026	
40201	MIG/MAG – CO2 Welding	10.08.2026	14.08.2026	Introduction of MIG/MAG – CO2 Welding, Advantage and limitation, equipment and power sources, welding torch and attachment.
40202		21.09.2026	25.09.2026	
40203		02.11.2026	06.11.2026	
40301	T.I.G Welding	17.08.2026	21.08.2026	Introduction of TIG welding, Advantage and Limitation equipment and power sources, welding torch and attachment.
40302		05.10.2026	09.10.2026	
40303		09.11.2026	13.11.2026	
40401	Virtual Reality (VR) Welding Simulator	07.09.2026	11.09.2026	Introduction of Virtual Reality (VR) Welding Simulator equipment, Job setting, Position setting, Room setting etc.
40402		12.10.2026	16.10.2026	
40403		16.11.2026	20.11.2026	

5. METROLOGY & ENGG. INSPECTION

(Course Coordinator: Shri N. Ramesh Kmar (Assistant Director))

Course Code	Name of the Course	From	To
50101	Engg. Inspection & Quality Control	03.08.2026	07.08.2026
50102		07.09.2026	11.09.2026
50103		05.10.2026	09.10.2026
Course Contents			
Introduction to inspection and quality control, limits, fits, tolerances and limit gauges, linear measurements, optical measuring instruments, calibration techniques, error in measurement process, Practices in dimensional measurements using precision measuring instruments conventional and digital instruments.			



6. MECHANICAL MACHINE TOOLS MAINTENANCE

(Course Coordinator: Shri Imran Khan, Training Officer)



Course Code	Name of the Course	From	To	Course Contents
60101	Maintenance of Machine Tools	20.07.2026	24.07.2026	Industrial safety introduction to machine tool maintenance and types of maintenance, bearing – types, specification, and inspection, bearing selection, bearing failures, causes and remedy. Preventive maintenance, checklist for preventive maintenance, Geometrical Test, Tools & appliances using in Transportation of machine tools.
60102		14.09.2026	18.09.2025	
60103		16.11.2026	20.11.2026	

7. ELECTRICAL CONTROL

(Course Coordinator: Shri Amrish Sagar, Training Officer)



Course Code	Name of the Course	From	To	Course Contents
70201	Maintenance of AC Motors and Transformer	07.09.2026	11.09.2026	Introduction about maintenance of Electrical Motor and Transformers. Types and safety issues of AC Motor and Transformer and its advantage.
70202		05.10.2026	09.10.2026	
70203		02.11.2026	06.11.2026	
70204		07.12.2026	11.12.2026	

8. ELECTRONICS CONTROL

(Course Coordinator: Shri Vipul Tiwari, Training Officer)



Course Code	Name of the Course	From	To	Course Contents
80201	Digital Electronics and its Application	07.09.2026	11.09.2026	Demonstrate the basic logic GATE, Combinational Circuit, Flip- Flop, Counter & Shift Register.
80202		05.10.2026	09.10.2026	
80203		02.11.2026	06.11.2026	
80301	Power Electronics and its Devices	14.09.2026	18.09.2026	Introduction and working principle of silicon-controlled rectifier converter, inverter, chopper, DTO, SUS, SBS, DIAC, TRIAC, IGBT, SCS, Thyristor, and Commutation.
80302		12.10.2026	16.10.2026	
80303		09.11.2026	13.11.2026	
80401	Sensors, Transducers and its Application	21.09.2026	25.09.2026	Basic of passive and active transducers, working principle of Thermistors/ Thermocouples, LVDT and Strain Gauge, capacitive and inductive proximity sensors, Advantage, disadvantage and application of transducer
80402		26.10.2026	30.10.2026	
80403		16.11.2026	20.11.2026	

9. TRAINING METHODOLOGY (T M)

(Course Coordinator: Shri Rajendra Kumar Sahu, Training Officer)



Course Code	Name of the Course	From	To	Course Contents
90101	Refresher Course on Modern Teaching Techniques	06.07.2026	10.07.2026	Modern principle of teaching and training. Microteaching, Pedagogy and group discussion
90102		20.07.2026	24.07.2026	
90103		03.08.2026	07.08.2026	
90104		17.08.2026	21.08.2026	
90105		14.09.2026	18.09.2026	
90106		05.10.2026	09.10.2026	
90107		26.10.2026	30.10.2026	
90108		09.11.2026	13.11.2026	
90109		30.11.2026	04.12.2026	
90201	Training of Trainers	14.12.2026	18.12.2026	Skill scenario of India, NSQF introduction, level descriptor, Training/ learning outcome, adult learning, soft skill, NSQF interpretation, going through NSQF curriculum for various sectors of JSS, Assessment Criteria, lesson and Demo Plan
90202		11.01.2027	15.01.2027	
90203		01.02.2027	05.02.2027	
90204		22.02.2026	26.02.2026	

10. FASHION DESIGNING

(Course Coordinator: Shri R.K.Sahu Training Officer)



Course Code	Name of the Course	From	To	Course Contents
100101	Pattern Design using REACH CAD Software (PDS. Grading & Maker)	06.07.2026	10.07.2026	Preparation of Pattern making, Grading and Marker for selected garments.
100102		03.08.2026	07.08.2026	
100103		14.09.2026	18.09.2026	
100104		12.10.2026	16.10.2026	
100105		16.11.2026	20.11.2026	
100106		14.12.2026	18.12.2026	
100107		04.01.2027	08.01.2027	
100108		01.02.2027	05.02.2027	
100109		15.03.2027	19.03.2027	

11. SOLAR TECHNICIAN

(Course Coordinator: Shri Amrish Sagar, Training Officer)

Course Code	Name of the Course	From	To	Course Contents
110101	Solar panel Connection and Installation	02.11.2026	06.11.2026	construction & working principle of solar panel
110102	Installation of Solar panel Inverter with Battery	07.12.2026	11.12.2026	How to fitted panel with charge controller and solar inverter.

12. AERONAUTICAL STRUCTURE AND EQUIPMENT FITTER

(Course Coordinator: Shri Bharat Yadav (TO) and Sh. K. Periasamy (TO))



Course Code	Name of the Course	From	To	Course Contents
120001	Introduction on Aeronautical Structure Assembly	14.09.2026	18.09.2026	- Safety in Aviation Workshop Types of Aircraft & Parts etc - Tools and gauge used in aeronautical workshop - Prepare right angle as per drawing sheet on AL-5052 series. - To operate Pneumatic drilling machine
120002		12.10.2026	16.10.2026	
120003		16.11.2026	20.11.2026	
120004	Aeronautical Structure Assembly – Preparation of Little fuselage	21.09.2026	25.09.2026	- Axis and operating elements of an Aircraft - Introduction to pneumatic tools and tools for riveting - Know the edge margin and edge distance, bending calculation - Part manufacturing – little fuselage
120005		02.11.2026	06.11.2026	
120006		07.12.2026	11.12.2026	

13. CATERING & HOSPITALITY

(Course Coordinator: Shri Sachin Kumar (Training Officer))



Course Code	Name of the Course	From	To	Course Contents
13101	Catering & Hospitality	03.08.2026	07.08.2026	• Food Production • Food & Beverage Service • Front Office • Housekeeping • Tourism & Hospitality • Instructor Training • Soft Skill
13102		07.09.2026	11.09.2026	
13103		05.10.2026	09.10.2026	

BANK ACCOUNT DETAILS

Beneficiary name: DDO RDAT, Kanpur
Bank Name : Bank of India Ratan Lal Nagar

Account No

695821110000004

IFSC Code

BKID0006958

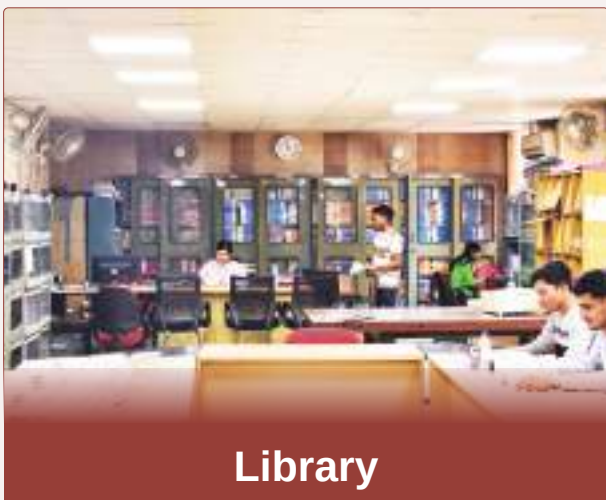
FACILITIES AVAILABLE



NSTI Girls Hostel



Campus



Library



Conference Hall



Dispensary



CTS - AIPA Lab



CITS - CSA Lab



CITS - CHNM Lab



AV Hall

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National Skill Training Institute, Kanpur

सी. टी. आई. चौराहा, संजयनगर,
डाकघर – उद्योगनगर, कानपुर-208022

CTI Chouraha, Sanjay Nagar, P.O-Udyog
Nagar, Kanpur, UP 208022

दूरभाष / Phone - 0512-297244

Email: nsti-kanpur@dgt.gov.in

Website: <https://nstikanpur.dgt.gov.in>

HOW TO REACH:-

From:-

Railway Station (Kanpur Central) – 8.2 KM

Jhakarkatti Bus Stand - 7.1 KM

BY:- Auto, Tempo and Cab for CTI Chauraha



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