







भारत सरकार/कौशल विकास एवं उद्यमशीलता मंत्रालय

Government of India / Ministry of Skill Development & Entrepreneurship DIRECTORATE GENERAL OF TRAINING (D.G.T)



राष्ट्रीय कौशल प्रशिक्षण संस्थान, कानपुर NATIONAL SKILL TRAINING INSTITUTE, KANPUR

सी.टी.आई. चौराहा , संजय नगर , डाकघर –उद्योग नगर , कानपुर-208022



TRAINING BROCHURE 2023-2024

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

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National Skill Training Institute Kanpur



Shri J.D Masilamani, Regional Director NSTI Kanpur

The National Skill Training Institute (NSTI) formerly known as Advanced Training Institute for Instructor training was set up by the Government of India in the year 1960 with the objective to train primarily the existing Vocational Instructors.

This is a prestigious Institute in the Northern Region functioning with the objective of meeting the training demands of the Industries/Institutions in the country. The Institute is having well equipped Workshop, Laboratories, Administrative Building, Audio Visual section, Library, Trainees Hostel, and Dispensary, staff Quarters etc.

In the context of rapid industrial expansion in the country, it became necessary that knowledge and skill of the existing workmen were updated and upgraded, So that the trained manpower may be utilized in upcoming and advanced skilled areas with competence and confidence. With the objective to meet with growing demand of highly skilled technician in country, the so trained, skilled manpower will serve the need of industry since eighties.

Industrial development/expansion has been faster than before. Computers, CNC Machines, Electro hydraulic & Electro Pneumatic control, Robotics, Microprocessors etc. have been adopted by most of the industries. In order to meet with the training needs arisen due to introduction and application of sophisticated technology in the production process, it became necessary to further develop the AVTS training. Accordingly Government of India , Ministry of Skill Development and Entrepreneurship introduced scheme for training in the highly advanced skill areas of NC/CNC, Electronics Maintenance system etc with the assistance of UNDP/ILP/World Bank. Necessary infrastructural facility was created and courses started. Keeping in peace the rapid growth of Industrialisation and use of sophisticated technology all over the world, NSTI Kanpur had upgraded the CNC Turning section, welding section, Advanced Electronic, Dress Making & Cutting & Swing for AVTS and CITS infrastructure and machinery in Institute. All above are done with regular suggestions of MSDE, New Delhi.

OBJECTIVE:

Development of Skill and up gradation of level of technical personnel of industry and industrial Training Institute of Country, Who in turn skilled man power for country & abroad. Our objective are

- To ensure steady flow of skilled worker to the industries in different trades.
- ❖ To raise the quality and quantity of the industrial production by systematic training of potential workers.
- ❖ To enhance employability of educated youth for skilled and supervisory jobs through training.
- ❖ To upgrade and update the skills of technical personnel of industries, Govt. Departments and Organizations for diversification in production and keeping them abreast with the technological advancement.
- ❖ To conduct need based training Program for industries, departments and organizations in the form of tailor made programs.
- Rendering consultancy in training/production techniques.

VISION

❖ To provide innovative, effective and integrated training opportunities for people who need new skills to enjoy the dignity that comes with employment, independence and self-reliance.

MISSION

- ❖ To continuously hone the skills of industrial workforce for higher productivity
- ❖ Bridging the gap between academics and industries for suitable placement for young generation in technical fields

NSTI KANPUR TRAINING ARCHITECTURE:

1. CRAFT INSTRUCTOR TRAINING SCHEME (CITS) PROFILE: Craft Instructor Training is given to ITI pass trainees and Instructor of ITI in various trades in this institute. Objective of craft instructor training is to train instructor for training /teaching and transferring practical training to Instructors.

The trained Instructors are the skilled man power for the Govt & Pvt. ITIs as well as Industries. It is the structure of the training is so designed that it covers the comprehensive training in both skill development and methodology. This one year

course is as:

TRADE AVAILABLE IN CITS IN NSTI KANPUR

COMPUTER SOFTWARE APPLICATION MOTOR MECHANIC VEHICLE ELECTRONICS MECHANIC

MACHINIST ELECTRICIAN TURNER DRESS MAKING SEWING TECHNOLOGY FITTER

WELDER

ELEIGIBLIGY FOR ADMISSION IN CITS: NTC/NAC/Diploma/Degree in relevant trade /Branch of Engineering

SELECTION: Admission is offered in August every year on the basis of Computer based All India Common Entrance Test which is conducted centrally by DGT HQ.

AGE LIMIT: Minimum age 14 yrs, No upper age limit.

2. SHORT TERM COURSES (AVTS) PROFILE: Short term courses or Advance Vocational Training Scheme (AVTS) is for 1 week/2 week training for industrial Worker/Technicians/Supervisors/Engineers in a particular module for their skill up gradation. These courses are designed in various modules as per the need of industries and their personnel. In this institute such sector are chosen to give training at industrial man power and private technical student. These are as:-

INFORMATION TECHNOLOGY CAD/CAM/ CNC TURNING 3D PRINTING
HYDRAULICS & PNEUMATICS AUTOMOBLILE ENGINEERING ADVANCE WELDING
METROLOGY & ENGG. INSPECTION MMTM ELECTRICAL CONTROL
ELECTRONIC CONTROL TRAINING METHODOLOGY FASHION DESIGNING

3. IBM DIPLOMA COURSE

IBM Advance diploma Course in "**IT, Networking & cloud computing"** has started and 30 students took admission in session 2022-24.

- **4. TAILOR MADE COURSE:** Designed and conducted as per the need of Industries
- **5. JSS PROGRAMME:** JSS Recourse personnel Training (Training of Trainers) is conducting on demand basis.
- **6. PMKVY/SHI Courses**: Conducted as per the direction of DGT.

AVTS SHORT TERM TRAINING COURSES DETAILS: 2023-24

Course	Name of the Course	Duration	From	То	No. of	Course Coordinator
Course	Name of the Course		From	10		Course Coordinator
	MATION TECHNOLOGY	(Weeks)			seats	
• •		01	20,00,2022	20.06.2022	20	Chailly Ciaral
10101	Artificial Intelligence	01	26.06.2023	30.06.2023	20	Shri H.K.Singh
10102	and Machine Learning		18.09.2023	22.09.2023		Training Officer
10103			01.01.2024	05.01.2024		
	tents: Introduction to AI, A					-
= =	n-Chatbot, Introduction to		earning, Regre	ession, Decision	on Tree L	earning, Artificial
	twork, Reinforcement Lear		11 00 2022	15 00 2022	20	CL : LLV C: L
10201	Cloud Computing	01	11.09.2023	15.09.2023	20	Shri H.K.Singh
10202	_		18.09.2023	22.09.2023		Training Officer
10203	tente Introduction to Clay	ıd Camputii	05.02.2024	09.02.2024	 	ro Cloud Architocture
	itents: Introduction to Clou	-	_			
_	ervices, Compute Service					• •
	nt Model, Application Serv	rice and Ful	nctions API, C	ioua Comput	ing Appi	cations and importan
Cloud Tern 10301		01	09.10.2023	13.10.2023	20	Chail LL K Cia ala
10301	Cyber Security	01	16.10.2023	20.10.2023	20	Shri H.K.Singh
10302			15.01.2024	19.01.2024		Training Officer
	tanta Introduction to Cube	or Cocurity	1		fonco To	ols Cubor Crimo Law
	tents: Introduction to Cybe igation, Cyber Security Tec	•	-			•
10401		01	06.11.2023	10.11.2023	20	
10401	Programming Using Python	01	20.11.2023	24.11.2023	20	Shri H.K.Singh
10402	- Fython		04.03.2024	08.03.2024		Training Officer
	 tents: Introduction to Pyth	on Bython			NA ELIDO	tions and Modulos
	rays, Collections in Python,	•	•	_		
10501	Contents Management	01	04.12.2023	08.12.2023	20	<u>-</u>
10502	System (CMS)	01	18.12.2023	22.12.2023	20	Shri H.K.Singh Training Officer
10503	System (CIVIS)		18.03.2024	22.03.2024		Training Officer
	tents: Introduction to Drug	l Dal Installin	l .		Configur	ation Drunal Menus
	emes, Drupal Contents, Dru			•	_	•
•	Module/Development.	apai Osci at	arriiriisti atiori,		aics vick	is and rancis, brupar
	/CAM/CNC TURNING/3D	DDINITING	<u>,</u>			
20101	Auto CAD 2D Drafting	01	11.09.2023	15.09.2023	20	Shri Ravi Pandey
	Auto CAD 2D Diaiting	UI			20	Vocational Instructor
20102	_		09.10.2023	13.10.2023		Vocational instructor
20103			04.12.2023	08.12.2023		
20104			05.02.2024	09.02.2024		
	ntents: Introduction to auto		- '			•
	drawing sheet as per ISO, cre					
_	ute co-ordinate system relativ				-	
	mmands, circle commands, m					
_	mplates, inserting drawings, land			ig creating tem	piates, in	iserting arawings, layers
unnensionir	ng drawings, creating styles in	01	18.09.2023	22.09.2023	20	Shri Ravi Pandey
		UI	1 1A UM 2U23	1 // 09 /0/3	20	L SHILLKAVI PANGEV
20201	3D with Auto CAD	0.				*
20201 20202	3D with Auto CAD	0.	16.10.2023	20.10.2023		· ·
20201	3D with Auto CAD					Vocational Instructor

Course Contents: 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 preview.

20301	0	01	09.10.2023	13.10.2023	20	Shri A.K.Misra
	Operation and	01	09.10.2023	13.10.2023	20	
20302	programming of CNC		23.10.2023	27.10.2023		Training Officer
20303	Turning		18.12.2023	22.12.2023		
20304			26.02.2024	01.03.2024		
Course Cor	ntents: Principles of CNC system	& elem	ents of CNC ma	achines prepara	tory and	miscellaneous codes
different coo	rdinate systems work offset, tool	offsets p	oart program of	f turning practi	ce on sim	ulation system selection
•	ed, feed & depth of cut subrouting			•	ng & prov	ring the part program
	ne operations loading of compon	ent & m	achining of co	T .		
20401	Master Cam	01	06.11.2023	10.11.2023	20	Shri Ravi Pandey
20402			08.01.2024	12.01.2024		Vocational Instructo
20403			11.03.2024	15.03.2024		
	ent: Design and drafting 2D and		·	•		
generation, S	Surface design and Machining us	ing Mas	ter Cam, Unde	rstand advance	ed feature	es of CAD/CAM
	T	1	T	1	T	T = 1
20501	Additive Manufacturing	01	25.09.2023	29.09.2023	20	Shri A.K.Kesarwani
20502	/3D Printing		18.12.2023	22.12.2023		Training Officer
20503			11.03.2024	15.03.2024		
Course con	itents: Introduction about 3D	printing	a/ Additive m	anufacturing	3D prin	ting process Various
	technology and application of	•	•		JD pilli	ting process, various
	ULICS & PNEUMATICS	n Addit	ive manaracte	aring.		
30101	Hydraulics & Pneumatics	01	09.10.2023	13.10.2023	20	Shri A.K.Kesarwani
30101	Control	01	08.01.2024	12.01.2024	20	Training Officer
30102						
Course con	itents : Introduction to Pneumat			•		
				and Hydraulic (arcuit wit	:h direct & indirect
Block Diagra	ms, and working principles. Cons				on care wit	
Block Diagra control. App	ms, and working principles. Cons lication of Limit switches Relay, 8	Sensor	s.		_	
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50201	TIG and MIG Welding	01	11.09.2023	1509.2023	20	Shri R.N.Savita
50202			20.11.2023	24.11.2023		Vocational Instructo
50203			29.01.2024	02.02.2024		
	tents: Introduction of TIG and MIC		-			•
_	ch , shielding gases of TIG and MIC				_	uses of AC& DC current
	ng , Manipulation of the Torch for					1
50301	Welding Inspection (NDT)	01	18.09.2023	22.09.2023	20	Shri R.N.Savita
50302			04.12.2023			Vocational Instructo
50303			04.03.2024	08.03.2024		
	tents : Introduction to Non Destruct ween frequency and weave, Types or		_			LW-V2,
50401	Virtual Reality (VR)	01	09.10.2023	13.10.2023	20	Shri R.N.Savita
50402	Welding Simulator		18.03.2024	22.03.2024	_~	Vocational Instructo
	tents: Introduction of Virtual Rea	lity (VR)	l .		mulator r	
	ting and current setting. Troch an	•	•	•		
	OLOGY & ENGG. INSPECTIO			<u> </u>		
50101	Engg. Inspection & Quality	01	11.09.2023	15.09.2023	20	Shri H.B.Meena
50102	Control		09.10.2023	13.10.2023		Training Officer
50103			13.11.2023	17.11.2023		
Course Con	itents: Introduction to inspectio	n and qı	uality control, l	imits, fits, tole	rances an	d limit gauges, linear
measureme	nts, optical measuring instrumer	ts, calib	ration techniq	ues, error inme	easureme	nt process, Practices in
limensional	measurements using precision me	easuring	instruments c	onventional ar	nd digital	instruments
7) MECHA	ANICAL MACHINE TOOLS MA	AINTEN	IANCE	1		1
'0101	Maintenance of Machine	01	18.09.2023	22.09.2023	20	Shri Dinesh Kumar
0101				20 402022		Training Officer
	Tools		16.10.2023	20.102023		Training Officer
70102 70103 Course Co Bearing – ty Preventive	Tools ntents: Industrial safety introd pes, specification, and inspection maintenance, checklist for production of machine tools	on, Bear eventive	15.01.2024 to machine too ring selection,	19.01.2024 ol maintenance bearing failure	es, cause	es of maintenance, s and remedy.
70102 70103 Course Co Bearing – ty Preventive using in Tra	ntents: Industrial safety introd /pes, specification, and inspection maintenance, checklist for properties of machine tools	on, Bear eventive	15.01.2024 to machine too ring selection,	19.01.2024 ol maintenance bearing failure	es, cause	es of maintenance, s and remedy.
70102 70103 Course Con Bearing – ty Preventive Jusing in Tra	ntents: Industrial safety introd ypes, specification, and inspection maintenance, checklist for properties of machine tools	on, Bear eventive	15.01.2024 o machine too ing selection, e maintenanc	19.01.2024 ol maintenance bearing failure te, Geometric	es, causes al Test, T	es of maintenance, s and remedy. Tools & appliances
70102 70103 Course Course Cour	ntents: Industrial safety introd ypes, specification, and inspection maintenance, checklist for pro- ansportation of machine tools RICAL CONTROL AC/DC Drive and speed	on, Bear eventive	15.01.2024 to machine too ring selection, e maintenance	19.01.2024 ol maintenance bearing failure e, Geometric	es, cause	es of maintenance, s and remedy. Tools & appliances Shri A.S.S.Meena
70102 70103 Course Cor Bearing – ty Preventive using in Tra (8) ELECTI 30101	ntents: Industrial safety introd ypes, specification, and inspection maintenance, checklist for properties of machine tools	on, Bear eventive	15.01.2024 To machine too Ting selection, The maintenance 11.09.2023 16.10.2023	19.01.2024 ol maintenance bearing failure te, Geometric 15.09.2023 20.10.2023	es, causes al Test, T	es of maintenance, s and remedy. Tools & appliances
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70102 70103 Course Course Co	ntents: Industrial safety introd ypes, specification, and inspection maintenance, checklist for pro- ensportation of machine tools RICAL CONTROL AC/DC Drive and speed control of Electrical Motors	on, Bear eventive 01	15.01.2024 To machine too machine selection, e maintenance 11.09.2023 16.10.2023 04.12.2023 19.02.2024	19.01.2024 of maintenance bearing failure ee, Geometric 15.09.2023 20.10.2023 08.12.2023 23.02.2024	es, causes al Test, 1	es of maintenance, s and remedy. Tools & appliances Shri A.S.S.Meena Astt. Director
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Register.	tents: Demonstrate the basic	: logic G	ATE, Combin	ational Circuit	t, Flip-Flo	pp, Counter & Shift
90301	Power Electronics and its	01	09.10.2023	13.10.2023	20	Shri V.K.Sharma
90302	Devices		18.12.2023	22.12.2023		Vocational Instructor
90303			12.02.2024	16.02.2024		
	tents: Introduction and work	• .				onverter, inverter,
• •	O, SUS, SBS, DIAC, TRIAC, IGI					CL : YUYCI
90401	Sensors, Transducers and	01	30.10.2023	03.11.2023	20	Shri V.K.Sharma
90402	its Application		01.01.2024	05.01.2024		Vocational Instructor
90403			26.02.2024	01.03.2024	(T)	• • •
	tents: Basic of passive and ac			• •		
•	oles, LVDT and Strain Gauge,	•	ive and induc	tive proximity	y sensors	, Advantage,
	e and application of transduction of transduction in the second in the s	.ei				
100101	Refresher Course on	01	11.09.2023	15.09.2023	20	Shri R.K.Sahu
100101	Modern Teaching	01	09.10.2023	13.10.2023	20	Training Officer
100102	Techniques		06.11.2023	10.11.2023		Training Officer
100103	recrinques		11.12.2023	15.12.2023		
	nts: Modern principle of teachi	ng and t			nogy and i	aroun discussion
100201	Training of Trainers	01	04.09.2023	08.09.2023	20	Shri V.K.Sharma
100202	, rraming or rramiers	0.	16.10.2023	20.10.2023		Vocational Instructor
100203			29.01.2024	02.02.2024		
100204			26.02.2024	01.03.2024		
	nts: Skill scenario of India, NSQF	introdu			a/leaning	outcome, adult learning
	QF interpretation, going through			•		
and demo Pla						
(11) FASHIO	ON DESIGNING					
110101	Pattern Design using	02	11.09.2023	22.09.2023	20	Shri R.K.Sahu
110102	REACHCAD Software (PDS.		09.10.2023	20.10.2023		Training Officer
110103	Grading & Maker)		04.12.2023	15.12.2023		
110104			15.01.2024	26.01.2024		
110104			05.02.2024	16.02.2024		
110105			04.03.2024	15.03.2024		

ELEIGIBLIGY 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.

Course contents: Preparation of Pattern making, Grading and Marker for selected garments.

- (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.

FEES STRUCTURE:

- Application fee cum Registration fee Rs. 100/- per participant per course
- Gymkhana fee @ Rs. 10/- per courses per participant
- Mode of payment: Payable in form of DD in favour of "DDO, RDSDE-Kanpur, payable at Kanpur at the time of admission or through online.
- 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.

Tuition Fees:

SI no.	Category	Rate of Tuition fee per trainee per week			
		Regular Schedule	Tailor Made		
1	Nominees from Govt., Dept., viz, Railway, Defence etc.	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 engg. Collages & other related Tech. institute etc.	Rs. 1000.00	Rs. 2000.00		
5	Nominees from State Directorates	NIL	Not Applicable		

GENERAL:

- 1. Nominations should reach the institute in advance at least 15 days before the commencement of each course.
- 2. 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", RDSDE-UP payable at Kanpur.
- 3. Saturday and Sunday are holiday working hours are from 09:00 hrs. to 17:30 hrs.
- 4. 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.
- To reach the institute: from Kanpur railway station (City Side) approx...
 Kms. Bus/Tampo and Auto Rickshaw are available to CTI Chauraha (Govind Nagar) Kanpur.

6. All correspondence should be addresses to **Regional Director**, **National Skill Training Institute**, **Post- Udyog Nagar**, **Kanpur-208022**

APPLICATION FORM: Please scan QR Code & apply online through google form



Application Form Link: https://forms.gle/BSrbGu7wFeubVsWS6

NOTE

DGT/Regional Director/Principal of Institute reserves the right to cancel or postpone any course without assigning any reason.

Photo Gallery



ELECTRONICS CONTROL



FITTER



FASHION DESIGNING



ELECTRIC CONTROL



WELDING SIMULATION (welder)

WELDING SECTION



AUTOMOBILE ENGINEERING



INFORMATION TECHNOLOGY



MACHINIST



TURNER