



CONTINUING EDUCATION CELL
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
G.E. Road, Raipur – 492010 (C.G.) Ph- (0771)2253934

Notice

Continuing Education Cell, NIT Raipur is going to offer a “**Workshop on CNC Turning Operation and Programming (CNCTOP2024)**”. The details are mentioned below:

Course Name	Tentative schedule	Details
“CNC Turning Operation and Programming(CNCTOP2024)” (Offline mode)	19 th – 24 th August 2024 (08:00 am to 10:00 am and 5:00pm-7:00pm each day)	Annexure-A

Interested candidates/organizations can apply in the prescribed application form(Annexure-B) along with the details of course fee. The course Fee is given as follows:

Course Fee	Students of NIT Raipur	₹500 + 18% GST
	Outside Students (other than NIT Raipur)/ NIT Staff	₹750 + 18% GST
	Faculty/ Industry Personnel	₹1,500 + 18% GST

The payment can be done either in the form of a Demand Draft (DD) in favour of “Director, NIT, Raipur” payable at Raipur or **through online mode** (*account details in the last page of this document*). For online payment, the scanned copy of the application form along with the proof of payment should be sent to cec_assistant@nitrr.ac.in by the due date (**14th August 2024**). For payment made through DD, the hard copy of the application along with the DD should be sent to the **Chairman, Continuing Education CELL, NIT Raipur, Raipur, Pin: 492010** by the due date (**14th August 2024**). After payment, participant is required to fill the following google form:

<https://forms.gle/PLA3yWM1OO2QaN7EA>

For any clarification, please contact the course coordinators, **Dr. Shailesh Vaidya** (Email: s vaidya.ws@nitrr.ac.in/Mobile: 9425437095) Sr. Technical Officer, and Dr. M.K. Pradhan, Associate Professor, Department of Mechanical Engineering, NIT Raipur, for course details kindly refer to Annexure- A. Conduction of the course is subjected to enrolment of minimum number of students.

Dr.Subhojit Ghosh
Chairman,
CEC NIT, Raipur



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Course Content

Workshop on CNC Turning Operation and Programming (CNCTOP2024)

Module I: *Introduction to NC/CNC machine tools.*

- Technological basic of NC/CNC machine tool, overview of CNC Technology.
- Co-ordinate systems for CNC machine
- CNC related dimensioning
- Outlines on some basic geometrical shapes

Module II: *Introduction to CNC Programming*

- Introduction to the basic turning operations
- Overview on CNC tools and its types
- Understanding to the “G” codes and “M” codes
- Structure of CNC programming
- CNC Programme build up
- Simulation and hands on practice

Module III: *Examples related to programming*

- Facing operation
- Turning operation
- Taper turning operation
- Machine setup procedure,
- Work piece alignments
- Hands on setup and execution.

Module IV: *Examples related to programming*

- Drilling operation
- Thread cutting operation
- Programming using liner and circular interpolation.
- Hands on practice

Module V: *Exercise on CNC turning machine tool.*

- Practice of above mention all turning operations.
- Safety procedures
- Trouble shooting common issues
- Peer reviews and feedback
- Assessment and Certification
- Closing remarks and Q&A session.



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APPLICATION FORM

Name of the Course Applied:

Name:

Father's/Husband's Name:

Date of Birth: Sex: Male ☐ Female ☐

Occupation:

Qualification:

Address.....

.....

..... *E-mail ID:.....

Phone (with STD code): Residence: Mobile:

Aadhar Number :

Time: Tick whichever is applicable,

(A) Batch-I (Morning - 07:15 AM to 09:15 AM)

(B) Batch-II (Evening - 05:30 PM to 07:30 PM)

Fee Details:

Amount: DD No.: Date:.....

Name of Bank.....

(Please write your name and course applied for in the back of the Demand Draft also.)

Date:

Signature of the Applicant

Note:

1. Time/Batch will be allotted as per the convenience of the applicant in general, however candidate may be asked to change the batch as per the requirement of the course.
2. The Fee Deposited for any course is non-refundable & non-transferable.
3. Information regarding the classes will be sent to through mail after registration.
4. If applicant is in Government service, they need to apply through proper channel.

For Office Use Only

Course and Time allotted:

Fee Details:

Place & Date:

Signature of CEC-Chairman

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ACCOUNT DETAILS FOR ONLINE PAYMENT

Bank Name:	State Bank of India
Account Number	38027633250
Account Holder Name	Director NIT Raipur
Branch Name and Address	NIT Branch, G. E. Road Raipur, Chhattisgarh 492010, India
IFSC Code	SBIN0002852
MICR Code	492002004
Swift Code	SBININBB646
PAN Card Number	AAAJN0643G
GSTIN Number	22AAAJN0643G1ZN