

CNC LATHE

EVENT OBJECTIVE:

COEP is one of the few colleges in Maharashtra that has CNC LATHE machine. The motto behind this lathe workshop is to teach the participants working of this widely used commercial machine. So the participants gain (Mechanical/Production engineers) more practical knowledge about this machine which will surely help them in their near future.

EVENT STRUCTURE:

Curriculum:

1. Theory session: Comparison of CNC & conventional Lathe machine, Basic components of CNC e.g. Power supply, Manufacturers, MCU, Drive system, Stepping motor, Recirculating balls, Coordinate system, Part programming, Control system, e.g. Open loop & close loop, CNC tools, e.g. STD inserts, Specific application of CNC, eg. Aerospace, Automotive components, Advantages & Disadvantages of CNC.
2. Question Answer Session (Interactive)
3. Programming Session: Special emphasis on **ZERO SETTING** of the tool tip, Brief introduction of the machine dashboard(Control Panel), 'G' codes & 'M' codes, Stock removal in turning and facing, Repetitive, Peck drilling, Peck grooving Cycles, Threading cycle, Encoding programs for product which includes following operations: facing, turning, taper, fillets/chamfer, threading, grooving.
4. Practical Session: Actual implementation of the programmed codes on the CNC lathe machine with hands on experience. Technical explanation regarding cutting speed, feed values, use of coolant will be given during practical session. If time permits, other CNC machines will be theoretically introduced (apart from the lathe).

RULES:

1. Participants must carry their registration receipt and a valid ID-Card at all times during the workshop. It will be helpful (not necessary) if participants acquire some fundamental knowledge about NC/CNC through resources like books/internet. You can refer some notes from official website of MindSpark'16 (www.mind-spark.org)
2. Participants must be punctual at all reporting times. Sessions will begin without participants if they are late.

3. If any damage occurs to the machines/institute property, participants may be asked to refund the cost of repairs.
4. Organizers are not responsible for any harm caused to participants due to their own negligence. Participants have to take care of their own safety.
5. Structure and theory covered may be changed according to constraints. Please check the MindSpark'16 website regularly for updates.
6. Rules may be changed without prior intimation. For further updates, participants are requested to check the MindSpark'16 website (www.mind-spark.org) regularly for updates.
7. In case of any disputes, the decision of the organizers will be final and binding to all.

TEAM AND FEE STRUCTURE:

Team Size	:	Individual event.
Registration Fee	:	₹200/- per individual.

FAQs:

Q. I'm participating in another event at MindSpark. Can I still register for this workshop?

A. You are free to apply to every event at MindSpark provided you are able to manage your own schedule.

Q. What if I miss my practical session?

A. We will try our best to help you and it is your duty to try not to miss ANY session. If you still miss it somehow, we will try our best to adjust you in some other batch for which you will be asked to show the registration receipt.

Q. Will I get any study material?

A. We will mail you some PDFs which you may refer to.

Q. What if I don't know anything about NC/CNC?

A. Detailed introduction will be given and you will be provided with the overall idea regarding CNC machines.

EVENT HEADS:

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