INDIRA TECHNICAL EDUCATION SOCIETY, NASHIK

CRTIFICATE COURSE CNC PROGRAMMING (CNC)

EXAM SCHEME: THEORY PAPER - I - 100 MARKS - 3 HRS.
THEORY PAPER - II - 100 MARKS - 3HRS.

PAPER - I

THEORY SYLLABUS

- * NC, CNC & DNC Machines
- * Advantage & Disadvantage of CNC machines
- * Parts suitable for CNC machine
- * Classification of CNC machines, according to number of axis, feedback control & control system features
- Axis identification of CNC machines
- Process planning
- * Special features of CNC machines ,machines structure, slide ways , servo motor ,Ball lead screw, ATC, Tool and work holding devices, computerized control unit
- * Key board details of computer unit and operational panel.
- * Safety precautions, operational requirements for CNC machine Tools, tools offset, jaw turning ,jaw boring etc.
- Listing co-ordinates of job
- * CNC words
- * G codes and M codes
- Canned cycles used in CNC as per Fanuc Control System.
- * Work zero, machine zero and zero shift.

GUIDELINE FOR PAPER SETTER: PAPER - I

Q. 1. : Compulsory Objective cover all syllabus

20 Marks

Q. 2. To Q. 8 solve any five question each questions carry equal marks 16 Marks

Note: No Programming problems should be asked in P-I Only Theory base questions.

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(CNC - PAPER - II)

THEORY SYLLABUS

- * Part of Programming in CNC words with programming Format.
- Co-ordinate Systems
- Preparatory Functions and Programming formats of them
- Miscellaneous functions (M codes)
- Use of M codes in programming
- * Simple Programming examples of drilling ,milling and lathe machines
- * Use of G40, G41 and G42 codes
- * Study and use of Canned cycles in CNC lathe and milling machine as per Fanue Controls
- Programming using Canned cycles in lathe machines
- * Programming using canned cycles in milling and drilling machines
- Main Programs and sub- Programs
- Examples on Programming
- * Introduction to Computer Aided Programming
- * Advantages of Computer Aided Programming

GUIDELINE FOR PAPER SETTER: PAPER - II

Q. 1. : Compulsory Objective cover all syllabus 20 Marks

Q. 2. To Q. 8 solve any five question each questions carry equal marks 16 Marks

Reference Book: Shri. Avinash Ladge.

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