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**REGISTRATION NUMBER: 170240220286**

**DEOARTMENT: COMPUTER**

**CLASS: BENG-17 COE**

Computer Aided – System Technology

Computer-aided requirements capture (CAR)

• Computer-aided rule definition (CARD)

• Computer-aided rule execution (CARE)

• Computer-aided software engineering (CASE)

• Component information system (CIS)

• Computer-integrated manufacturing (CIM)

• computer numerical controlled (CNC)

• Computational fluid dynamics (CFD)

• Electronic design automation (EDA)

• Enterprise resource planning (ERP)

• Finite element analysis (FEA)

• Knowledge-based engineering (KBE)

• Manufacturing process management (MPM)

• Manufacturing process planning (MPP)

computer numerical controlled (CNC)

1. What is CNC?
2. Mention and explain briefly concepts of computer numerical control
3. What are the applications of computer numerical control?
4. When is it appropriate to use NC
5. What are the advantages of computer numerical control?
6. Mention the limitations of computer numerical control

General objective

To analyze how the computer numerical controlled help in Computer Aided – System technology

Specific objectives

* To design input media that involve instruction needed to drive the machine tool component, prepared either manually or by the use of computer.
* To design machine control unit that involve electronic and control hardware, that interpret instruction set, execute instruction, and monitor result and correct where appropriate.
* To design mechanical tool that the machining including the component that drive each axis of motion.