

TERMS_DEFINITIONS

"Algorithm" : "A step-by-step procedure for solving a problem" ,

"CAD" : "Computer-aided design" ,

"CAM" : "Computer-aided manufacturig" ,

"CNC" : "Computer numerical control" ,

"FEA" : "Finite element analysis" ,

"Fluid Mechanics" : "The study of fluids and their behavior" ,

"HVAC" : "Heating, ventilation, and air conditioning" ,

"Hydraulics" : "The study of liquid in motion" ,

"Kinematics" : "The study of motion without considering forces" ,

"Mechanics of Materials" : "The study of material behavior under stress" ,

"Mechatronics" : "The integration of mechanical, electrical, and computer engineering" ,

"Microcontroller" : "A small computer on single integrated ciruit" ,

"PLC" : "Programmable logic controller" ,

"Robotics" : "The design and application of robots" ,

"Solid Mechanics" : "The study of solid materials under stress" ,

"Stress" : "Force per unit area" ,

"Strain" : "Deformation of a material under stress" ,

"Thermodynamics" : "The study of heat and its relation to energy and work" ,

"Topology" : "The study of shapes and their properties" ,

"Vibration" : "Mechanical oscillations about an equilibrium point" ,

"Aerodynamics" : "The study of air in motion" ,

"Control Systems" : "Systems designated to regulate other systems" ,

"Data Aquisition" : "The process of collecting data from sensors" ,

"DSP" : "Processing of digital signals" ,

"Geotechnical Engineering" : "The study of soil and rock behavior" ,

"Engineering Design" : "The process of creating solutions to engineering problems" ,

"Structural Engineering" : "The design and construction of structures" ,

"Transportation Engineering" : "The design and operation of transportation systems" ,

"Manufacturing Engineering" : "The design and optimization of manufacturing process" ,