جامعة التقنية
والعلوم التطبيقية
University of Technology
and Applied Sciences

المصنعة
Al-Mussanah

DEPARTMENT OF ENGINEERING

STUDENTS SKILL DEVELOPMENT & TRAINING COMMITTEE
PROPOSED SHORT TERM COURSE SCHEDULE–AY 2023-2024

		MECHANICAL & INDUSTRIAL ENGINEERING SECTION			
Month	Week / Date	Training Program	Eligibility	Resource Personnel	Description
September	10th to 14th September, 2023	CNC Part-Programming	Diploma, Advance Diploma & BTech (Mechanical Engineering) after passing the course Production Technology / Manufacturing Process	Dr. K K Natrajan Mr. Asadahamad Dayma Mr. Malik saif Al Aabed Al Riyami	CNC Part-Programming Training provide necessary skills in CNC operations, setups, and programming. Students learn to program, set up, and operate CNC lathes and machining centers. They are taught programming commands, sequence of operations in CNC machining and programming, and data transfer from computer to CNC machine. Instruction time is divided equally between theory, simulation in computer lab, and machining, so as to provide a blend of practical theory and hands-on experience.
September to December	Semester 1	ANSYS	Advance Diploma - Mechanical Engineering	Mr. Kumar Mani Mr. Anand Narayanan Nair Mr. Kedar Deepak Chimote Mr. Sumesh Malayan	ANSYS is a complete FEA software package used by engineers worldwide in virtually all fields of engineering: Structural, Thermal, Fluid, including CFD (Computational Fluid Dynamics), Electrical / Electrostatics, Electromagnetics. List of industries in which ANSYS is used: Aerospace, Automotive, Biomedical, Bridges & Buildings
October	8th to 12th October, 2023	Refrigeration & Air-conditioning	Advance Diploma & BTech (Mechanical Engineering) after passing the course Thermodynamics	Mr. Mohan Chandrasekharan Chandra Mr. Bapu Reddy	Refrigeration & Air Conditioning training include: Basics of HVAC, design, installation, & maintenance of HVAC systems. This training facilitates a perfect platform to learn and develop air conditioning and refrigeration skills on the latest technology in air conditioning, chillers, comfort cooling, condenser and condensing units.
November	12th to 16th November, 2023	Industrial Safety	Advance Diploma & BTech (Any Engineering Discipline)	Mr. James Joseph Dr. Santhosh S Mr. Kumar Mr. Mohammed Farooq Mr. Bineesh C P	Industrial Safety training program provides basic knowledge and safety skills which is required for working in industries. The topics covered are safety awareness, responsibilities, Occupational Safety & Health Act (OSHA). Potential hazards and accidents and their prevention related to different industries are discussed. Fire safety and electrical safety are the other topics discussed in the training. There is also a session comprising of career in in Safety and HSE.
November	19th to 23rd November, 2023	PLC controlled Hydraulic & Pneumatic Applications	Advance Diploma & BTech (Mechanical Engineering)	Mr. Sumesh Malayan	PLC training is aimed at providing students the knowledge and skills required for design and operations of hydraulic and pneumatic circuits using PLC. The main topics covered are fundamental principles of PLCs, their inputs & outputs, programming, and networking.
November	12th to 16th November, 2023	Basic Lathe Operations	Diploma (Engineering Disciplines other than Mechanical engineering)	Mr. Asadahamad Dayma Mr. Malik saif Al Aabed Al Riyami	This program is aimed at providing Turning skills and ability to work independently in a Lathe for those students in Engineering other than Mechanical Engineering

Month	Date	Program	Eligibility	Resource Persons	Objective
December	3rd to 7th December, 2023	Heat Treatment of Steel - Theory & Practice	Advance Diploma & BTech (Mechanical Engineering)	Mr. James Joseph Mr. Anand Narayanan Nair Mr. Bineesh C P	The objective of Heat Treatment of Steel would cover heat treatment of carbon steels, alloy steel and tool steel. The various parameters like temperature, time, control atmosphere, quenching media and different equipment for heat treatment operations are covered.
January	28th January to 1st February	CNC Programming, Turning & Machining	Diploma, Advance Diploma & BTech (Mechanical Engineering) after passing the course Production Technology / Manufacturing Process	Dr. K K Natrajan Mr. Asadahamad Dayma Mr. Malik saif Al Aabed Al Riyami	CNC Part-Programming Training provide necessary skills in CNC operations, setups, and programming. Students learn to program, set up, and operate CNC lathes and machining centers. They are taught programming commands, sequence of operations in CNC machining and programming, and data transfer from computer to CNC machine. Instruction time is divided equally between theory, simulation in computer lab, and machining, so as to provide a blend of practical theory and hands-on experience.
February to May	Semester 2	ANSYS	Advance Diploma - Mechanical Engineering	Mr. Kumar Mani Mr. Anand Narayanan Nair Mr. Kedar Deepak Chimote Mr. Sumesh Malayan	ANSYS is a complete FEA software package used by engineers worldwide in virtually all fields of engineering: Structural, Thermal, Fluid, including CFD (Computational Fluid Dynamics), Electrical / Electrostatics, Electromagnetics. List of industries in which ANSYS is used: Aerospace, Automotive, Biomedical, Bridges & Buildings
February	11th to 29th February, 2024	Project Planning using MS Project	Advance Diploma & BTech (Any Engineering Discipline)	Mr. Bineesh C P Mr. James Joseph	Fundamentals of Project planning and scheduling is covered in this program with primary focus on the application of MS Planning in project planning
March	17th to 21st March, 2024	Codes & Standards	Advance Diploma & BTech (Mechanical Engineering)	Mr. James Joseph Mr. Kedar Deepak Chimote Mr. Muhammad Atiq Ur Rehman	This program provides participants a comprehensive understanding of codes & standards and the methodology of using it. The objective of codes and its requirements for different industries including processes, construction, design, inspection and maintenance with examples are covered. Specific emphasis would be given on oil & gas and petroleum industries
April / May	7th April to 30th May, 2024	Leadership Development Program	BTech (Mechanical Engineering)	Mr. James Joseph Mr. Bineesh C P	Leadership development program is for enhancing leadership skills, decision making, problem solving and other essential skills of students and is aimed at preparing the participants to assume roles of greater responsibility.
June	16th to 20th June, 2023	Project Planning using MS Project	Alumni UTAS and Professionals (Any Engineering Discipline)	Mr. Bineesh C P Mr. James Joseph	Advanced tools and techniques for Project planning and scheduling is covered in this program with primary focus on the application of MS Planning in project planning

For Registeration Contact: by email or MS Teams

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