NEW SKILLS FOR NEW JOBS (TREESP1.3.FoW/P-03/259) ACTIVITY 3. CURRICULUM DEVELOPMENT

COMPUTER INTEGRATED MANUFACTURING AND SMART FACTORY COURSE

Aim of the Course

Increase the employability of the unemployed people by the way of COMPUTER INTEGRATED MANUFACTURING AND SMART FACTORY

Subject Name	Hours	Method
AutoCAD Software Training	25	Theoretical and Practical
SolidWorks Software Training	25	Theoretical and Practical
Computer Aided Design (CAD)	6	Theoretical and Practical
Computer Aided Manufacturing (CAM)	6	Theoretical and Practical
G Coding	6	Theoretical and Practical
CNC Milling Operations	6	Theoretical and Practical
CNC Turning Operations	6	Theoretical and Practical
Robots, conveyor and automatic storage and retrieval systems (ASRS)	6	Theoretical and Practical
Assembly and Quality Control	6	Theoretical and Practical
Computer Integrated Manufacturing (CIM)- Intelligent Factory Design	9	Practical
Computer Integrated Manufacturing (CIM)- Intelligent Factory Management	9	Practical
Computer Integrated Manufacturing (CIM)-Intelligent Factory Project (Everyone who attends the course will be given a project that they will complete within 5 days. It is planned to consolidate and implement the course content and software learned).	10	Practical
	* Learning CAD and CAM operations,	
	* Product and manufacturing design with G-coding in a company,	
Learning Outcomes	* To be informed about CNC machines and CNC operations in a factory,	
	* To be able to design an intelligent manufacturing system with all its components in a company,	
	* To learn the areas of use of robots in a production system and to learn how to use robots in production.	

INDUSTRIAL ROBOT PROGRAMMING COURSE

Aim of the Course

Increase the employability of the unemployed people by the way of INDUSTRIAL ROBOT PROGRAMMING TRAINING

Subject Name	Hours	Method
Industrial Robot Systems	4	Theoretical
Articulated Robots	8	Theoretical and Practical
Starting up the Articulated Robots	10	Theoretical and Practical
Articulated Robot Programming	30	Theoretical and Practical
Articulated Robot Application Examples	10	Practical
Scara Robots	8	Theoretical and Practical
Starting up the Scara Robots	10	Theoretical and Practical
Scara Robot Programming	30	Theoretical and Practical
Scara Robot Application Examples	10	Practical

LEARNING OUTCOMES

- Explains the working principle of industrial robot system
- Moves articulated and scara industrial robots in coordinate systems
- Starts up articulated and scara industrial robots
- Executes the industrial robot programs
- Programs articulated and scara robots for industrial applications

ENTERPRISE RESOURCE PLANNING COURSE

Aim of the Course

Increase the employability of the unemployed people by the way of ENTERPRISE RESOURCE PLANNING

Subject Name		Hours	Method	
BUSINESS ADMINISTRATION		6	Theoretical	
INFORMATION SYSTEMS		3	Theoretical	
MANAGEMENT		6	Theoretical	
ERP-MANAGEMENT MODULES		18	Practical	
PRODUCTION		9	Theoretical	
ERP-PRODUCTION MODULES		18	Practical	
MARKETING		8	Theoretical	
ERP-MARKETING MODULES		18	Practical	
FINANCE		6	Theoretical	
ERP-FINANCE MODULES		18	Practical	
MAINTENANCE		6	Theoretical	
ERP-MAINTENANCE MODULES		12	Practical	
	 To be able to use the recording, transaction and reporting features of Enterprise Resource Planning systems in a company. To be able to carry out operations related to inventory management in a company. 			
LEARNING OUTCOMES	- To be able to operate the material requirement planning (MRP) system in a company.			
	- To be able to conduct purchasing and sales transactions in a company through the ERP system.			
	- Creating freight bill and invoice with ERP system.			
	- To be able to perform financial transactions with the ERP system.			
	- To be able to generate reports for enterprise management with the ERP system.			

ARTIFICIAL INTELLIGENCE AND DATA MINING COURSE

Aim of the Course

The aim of this course is to introduce students to ARTIFICIAL INTELLIGENCE AND DATA MINING techniques. To give information about the applications of real life problems using Artificial Intelligence and Data Mining software.

Hours	Method
4	Theoretical
4	Theoretical
10	Theoretical
10	Theoretical
6	Theoretical
6	Theoretical
12	Practical
12	Theoretical and Practical
12	Practical
12	Practical
12	Practical
20	Practical
	4 4 10 10 6 6 12 12 12 12 12

LEARNING OUTCOMES

- To be able to perform demand forecasting studies in a company with Artificial Neural Network or Data Mining techniques
- Reducing the rate of faulty products in a company with Artificial Intelligence and Data Mining techniques
- To be able to make financial analysis in a company with Artificial Intelligence and Data Mining techniques