

IEDA 1990 Industrial Training
Course coordinator: Dr. Xin WANG
Academic Year: 2022-23

Course Description: A practical training course in an industrial simulated environment. For students of the Industrial Engineering and Decision Analytics Department only. Graded P, PP or F.

Textbook(s)/Reference Books/Materials

Students were given notes.

Grading Scheme

100% attendance is the completion criteria of IC training. Unless otherwise stated, all missed session should be made-up before the finalization of results in that semester.

Exemption of Industrial Training for Year 2 and Direct Entry Students

Any student who has completed similar training with respect to the above industrial training program prior to taking up his/her current program of study can apply for partial or full exemption.

Application have to be accompanied by relevant proofs eg. Original transcript, logbook, module outlines, green card must be provided to IEDA General Office before for review and approval.

Module Description

<u>Module</u>	<u>Description</u>	<u>Program</u>	<u>Duration/Period</u>
USTSIE	Safety Training	ALL	2 Hours Year 2 Winter
TM0108	Metal Cutting and Fitting Practice	IEEM - EM Track	4 Days Year 3 / Year 4 Winer
TM1133	Electronic Manufacturing Practice	IEEM - EM Track	4 Days Year 3 / Year 4 Winer
USTM10	Manufacturing Resources Planning (On-line mode)	ALL	4 Days Year 3 / Year 4 Winer
USTM18	Windows Server Administration	IEEM - LM Track and DA	4 Days Year 3 / Year 4 Winer
USTM20	Engineering Drawing + AutoCAD (on-line module)	ALL	Module should be completed before the end of Year 3 Summer
Logbook	Year 4 Students : <<Logbooks should be submitted on or before 15 April 2020>> Year 3 Students : <<Logbooks should be submitted on or before 15 November 2021>>		

Module Code	Module Description	Duration (in week)
IC0108	Metal Cutting and Fitting Practice <ul style="list-style-type: none"> • Marking out and simple workshop measurement • Use of hand tools: files, taps and threading dies • Drilling and reaming. Centre lathes: types, construction, uses • Turning, facing, undercutting, chamfering and associated tooling • Turning between centres, taper turning. Milling machines: types, construction, uses and tooling • Milling plane parallel surfaces • Slot, gang and straddle milling 	1
IC1133	Electronic Manufacturing Practice <ul style="list-style-type: none"> • Introduction to PCB material, fabrication process, photochemical etching, PCB resists • Plated through hole fabrication and PCB plating appreciation • Operation of NC drill • Soldering flux and cleaning • Hand soldering and desoldering technique • Wavesoldering machine • Introduction to programmable logic controller • Soldering quality • Electronic interconnect techniques : wire wrapping • Interconnection of electronic sub-assemblies by connectors and sockets • Electronic circuit testing techniques 	1
USTM10	Manufacturing Resource Planning <ul style="list-style-type: none"> • Introduction - MRP II System • MRP II Package; manufacturing and financial process flow; create item masters; create and enhance Bill of Manufacturing (bill of material, inventory control, material requirement planning, production planning/control and scheduling capacity planning); 	1

	financial analysis; MRP II case study	
USTM18	Windows Server Administration <ul style="list-style-type: none"> • Planning Server Deployments • Infrastructure Services • Active Directory Deployment • Application Services • File and Print Services • Storage Solutions • Planning for high availability • Server and Network Security • Securing Infrastructure Services • Managing Servers • Monitoring Servers and Backing Up 	1
USTSIEA	Safety Training <ul style="list-style-type: none"> • Laser and Radiation safety • Chemical safety 	0.5 day
USTM20	Engineering Drawing + AutoCAD (on-line module) <ul style="list-style-type: none"> • http://mooc.isd.ust.hk/course/5 	4 days