

The Public Authority for Applied Education and Training  
 College of Technological Studies  
 Department : Manufacturing Engineering Tech  
 Program : Manufacturing Engineering Technology

## PROGRAM MAJOR SHEET

**Current**

### Major Core Courses (42) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	pre-req.
64	104	Computer Aided Mech. Drawing	3	5	1	4	0	
64	114	Foundry and Welding Processes	3	5	2	3	0	64/106
64	130	Machining Processes (1)	3	5	2	3	0	64/106
64	142	Metrology & Measurements	2	3	1	2	0	76/105
64	162	Engineering Materials	3	4	2	2	0	56/113
64	215	Metal Forming	3	5	2	3	0	64/114
64	231	Machining Processes (2)	3	5	2	3	0	64/130
64	238	Comp. Numerical Control [CNC]	3	4	2	2	0	64/104 & 64/130
64	253	Material Handling & Inventory	3	4	2	2	0	64/106
64	254	Quality Control	3	4	2	2	0	76/106
64	260	Engineering Mechanics	3	4	2	2	0	56/113
64	263	Physical Metallurgy	3	4	2	2	0	64/162
64	324	Machines & Equip. Maintenance	3	4	2	2	0	64/142
64	398	Field Training	4	16	0	0	16	30/162 & 64/231
			42	72	24	32	16	

### General Core Courses (18) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
30	102	Technical English	3	3	3	0	0	30/99
30	162	Technical Reports Writing	3	3	3	0	0	30/102
30	171	Communication Skills	3	3	3	0	0	30/102
30	99	Remedial English	0	5	5	0	0	
56	113	General Physics	3	4	2	2	0	
76	105	Mathematics (1)	3	3	3	0	0	
76	106	Mathematics (2)	3	3	3	0	0	76/105
			18	19	22	2	0	

### Major Elective Courses (6) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	pre-req.
64	257	Production Planning & Control	3	4	2	2	0	64/253
64	274	Mechatronics	3	4	2	2	0	
64	316	Non-Conv. Manuf. Processes	3	4	2	2	0	64/231
64	356	Operations Research	3	4	2	2	0	30/102 & 76/105
64	364	Non-Metallic Eng. Materials	3	4	2	2	0	64/162
64	374	CAD/CAM	3	4	2	2	0	64/238
64	397	Manufacturing Projects	3	5	1	4	0	64/130 & 64/215
67	266	Non-Destructive Testing	3	4	2	2	0	64/162

### General Elective Courses (3) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
03	112	Work Ethics and Loyalty	3	3	3	0	0	
07	141	Art Education (1)	1	2	0	2	0	
07	142	Art Education (2)	1	2	0	2	0	07/141
08	110	Physical Education	1	2	0	2	0	
10	104	Library and Research	1	2	0	2	0	
13	151	Music Education	1	2	0	2	0	
15	114	Industrial Psychology	2	2	2	0	0	
21	164	Accounting	2	2	2	0	0	
22	104	Small Business Management	2	2	2	0	0	
25	166	Industrial Economics	2	2	2	0	0	
30	107	General French Language (1)	2	3	1	2		
57	102	Introduction to Contracts & Specs.	3	3	3	0	0	
64	268	Creativity & Design in Tech.	2	2	2	0	0	
65	205	Automotive Mechanics	3	3	3	0	0	
66	135	Water & Energy Conservation	3	3	3	0	0	
79	103	Oil Education	3	3	3	0	0	

### General Compulsory Courses (6) Credits

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
01	101	Islamic Culture	2	2	2	0	0	
64	106	Introduction to Eng. Technology	2	3	1	2	0	
64	252	Industrial Management	2	2	2	0	0	
			6	7	5	2		

Total	Cr.	Hrs
	75	109