

University of Technology

Control & Systems Engineering Department  
3<sup>rd</sup> Year

## Mechatronics Engineering

Code	Subject	Hours/Week						Units
		1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester			
		Theo.	Prac.	Tuto.	Theo.	Prac.	Tuto.	
CSE3301	Engineering Analysis	2	-	1	-	-	-	2
CSE3302	Numerical Analysis Using Matlab	-	-	-	2	-	-	2
CSE3303	Microprocessor Techniques I	2	-	1	-	-	-	2
CSE3304	Microprocessor Techniques II	-	-	-	2	-	1	2
CSE-C3302	Control Theory III	2	-	1	-	-	-	2
CSE-C3303	Control Theory IV	-	-	-	2	-	1	2
CSE3305	Electronic Circuits Design I	2	-	-	-	-	-	2
CSE3306	Electronic Circuits Design II	-	-	-	2	-	-	2
CSE3307	Fundamentals of Communications	2	-	-	-	-	-	2
CSE3308	Digital Signal Processing	-	-	-	2	-	-	2
CSE-M3301	Engineering Materials and Manufacturing Processes	2	-	-	-	-	-	2
CSE-C3304	System Identification	-	-	-	2	-	-	2
CSE-M3302	Fluid Power (Hydraulic Systems)	2	-	-	-	-	-	2
CSE-M3303	Fluid Power (Pneumatic Systems)	-	-	-	2	-	-	2
CSE-M3304	Theory of Machines	2	-	1	-	-	-	2
CSE-M3305	Fundamentals of Vibration	-	-	-	2	-	1	2
CSE-M3306	Programmable Logic Controller I	2	-	-	-	-	-	2
CSE-M3307	Programmable Logic Controller II	-	-	-	2	-	-	2
CSE-M3308	Laboratories I	-	6	-	-	-	-	2
CSE-M3309	Laboratories II	-	-	-	-	6	-	2
	<b>Total</b>	<b>18</b>	<b>6</b>	<b>4</b>	<b>18</b>	<b>6</b>	<b>3</b>	<b>40</b>

## Weekly Hours

1st Semester	2nd Semester
28	27

Total Units 40

Laboratories

- 1-Microprocessors Lab. I
- 2- Microprocessors Lab. II
- 3-Electronic Design Lab. I
- 4- Electronic Design Lab .II
- 5-Control Lab. III
- 6-Control Lab. IV

- 7-Commencations Lab.
- 8-DSP Lab.
- 9-Mechatronic Lab. I
- 10-Mechatronic Lab. II
- 11-PLC Lab. I
- 12-PLC Lab. II