University of Technology			
<b>Computer Engineering Department</b>			
Academic Year 2023-2024			
3 <sup>st</sup> Year- Second semester- All Branches			



U124	Microprocessor Applications	2 Hr/Week	2 Units	
Contents of syllabus			Hours	
prograi - Prog - Seria - Prog - Prog	<ul> <li>Programmable interrupt controller ( 8259A )</li> </ul>			
- Programmable DMA controller ( 8237 )				
<ul> <li>Data</li> <li>Mul</li> <li>Tem</li> <li>Traf</li> <li>Step</li> <li>DC r</li> <li>Inte</li> </ul>	<ul> <li>Stepper motor control</li> <li>DC motor control</li> <li>Interfacing with sensors and transducers</li> <li>Key board interface</li> </ul>			
<ul> <li>3- Bus interface:</li> <li>The ISA bus</li> <li>The PIC bus</li> <li>The LPT bus</li> <li>The serial COM ports</li> <li>The USB bus</li> </ul>			6	

## **TEXT BOOKS:**

1- Walter A. Triebel & Avatar Singh: "The 8088/8086 Microprocessors".

2- Liu & Gibson: "The 8088/8086 Microprocessor"

