

## B.Sc. (H) Electronics : Semester V

### Microprocessors and Microcontrollers

Date	Unit	Content
20-23 July'16	Unit 1	MPU 8086: Internal Architecture, Registers, EU and BIU, Queue
25-30 July'16		Multiplexed bus, various control signals, Minimum and Maximum Mode
01-06 Aug'16		Addressing Modes, Segmented Memory addressing scheme, Timing diagrams,
08-13 Aug'16	Unit 2	Data movement instructions: MOV, PUSH-POP, LEA, data transfer
15-20 Aug'16		Arithmetic and Logic instructions: Add, Subtract, MUL, DIV, BCD and ASCII arithmetic, Shift, Rotate, String manipulations
22-27 Aug'16		Program control instructions: Jump group
29 Aug'16 -03 Sep'16		Program control instructions: Call-Return, subroutine style of programming
05-10 Sep'16		<b>Test 1</b> , Interrupts
12-17 Sep'16	Unit 3	8255- Programmable peripheral interface
19-24 Sep'16		8253- Programmable interval timer, 8259-Interrupt controller
26-30 Sep'16		8279- Programmable keyboard/display interface, 8251-USART
03-08 Oct'16		8237/8257- programmable DMA controller, <b>Test 2</b>
17-22 Oct'16	Unit 4	Introduction to 80186/286/386/486 and pentium MPU
24-29 Oct'16		Microcontrollers - 8051
31 Oct'16 -05 Nov'16		<b>Test 3</b> , Revision
07-12 Nov'16		Revision