B.Sc. (Electronics) SEMESTER V

Paper II

(Introduction To Microprocessor)

Unit I
8085 Microprocessor Architecture:
Introduction, Main features of 8085,
https://www.youtube.com/watch?v=rjnDD0f6vMY

Architecture of 8085Microprocessor,.
https://www.youtube.com/watch?v=w2oXhH02GSU

Pin diagram of 8085
https://www.youtube.com/watch?v=llh4rkvj2OA

Internal registers Organization, Address and Data bus multiplexing, Flags,
https://www.youtube.com/watch?v=z0ktlO0qLbQ

Instruction fetch and execution cycles
https://www.youtube.com/watch?v=Mq1HGYG0rc4

Unit II

Instruction Set:
Instruction Format 1 byte, 2 byte and 3 byte, Data transfer group, arithmetic group, logic group, branch control group, I/O and machine control group,
https://www.youtube.com/watch?v=ln6U1oqSOoo
https://www.youtube.com/watch?v=DK8dA7b2CdI&list=PLvuJ46soashfETxnmSK6uzV_5F-Fa4KAP
https://www.youtube.com/watch?v=VRVb5NBgVKQ&list=PLvuJ46soashfETxnmSK6uzV_5F-Fa4KAP&index=2
https://www.youtube.com/watch?v=1deUoyN5K3g&list=PLvuJ46soashfETxnmSK6uzV_5F-Fa4KAP&index=3
https://www.youtube.com/watch?v=LRbdDhR8SRI&list=PLvuJ46soashfETxnmSK6uzV_5F-Fa4KAP&index=4
https://www.youtube.com/watch?v=w7aN7ZNGSVg&list=PLvuJ46soashfETxnmSK6uzV_5F-Fa4KAP&index=5

Addressing modes. https://www.youtube.com/watch?v=vkNVBai9Ciw

Unit III

Stack and Subroutines: Stack and its PUSH, POP operations, Need of subroutine, Subroutine calls and return operations,

https://www.youtube.com/watch?v=xlMID3Y3I4I
https://www.youtube.com/watch?v=b0Pxd1SJQMo

 Interfacing: Need of Interfacing, Address space portioning; memory mapped I/O and I/O mapped I/O, IN and OUT instruction.
https://www.youtube.com/watch?v=4-daGa710Zc

Unit IV

Interrupts: Hardware interrupts, software interrupts, priority structure of 8085 interrupts.
https://www.youtube.com/watch?v=1aG3aFEKxyA

Modes of data transfer: Programme data transfer -synchronous and asynchronous, interrupt driven, DMA- cycle stealing and burst mode
https://www.youtube.com/watch?v=NWjxmoU_Bek

PPI 8255 :Block diagram of 8255 PPI, modes of operation, control word formats.
https://www.youtube.com/watch?v=pphUIgjvqJ8
https://www.youtube.com/watch?v=H1Lgm6LdBys