

CURRICULUM PLAN 2024-25 (Even Semester) Prof. Monika Bassi

DSE-10: MICROPROCESSOR

B.Sc. (HONS.) PHYSICS PART III, Semester VI

No. of Periods per week = 01

Name of Paper & Code	Allocation of Lectures	Month-wise schedule followed by the Department	Tutorial/assignment/Presentation etc.
<u>DSE-10, MICROPROCESSOR, UNIT-II (14 Hours) 2223010022</u>			
Unit II: 8085 Programming Operation code, operand and mnemonics, instruction set of 8085, instruction classification, addressing modes, instruction format.	4	January-February	<ul style="list-style-type: none">• Syllabus Overview• Reference Books• Derivations• Problem solving• Assignments• Revisions• Class Tests• Practice Examinations• Students' difficulties
Data transfer instructions, arithmetic instructions, increment & decrement instructions, logical instructions, branch instructions and machine control instructions.	3	February	<ul style="list-style-type: none">• Derivations• Problem solving• Assignments• Revisions• Class Tests• Practice Examinations• Students' difficulties
Subroutine, call and return instructions, timing diagrams-instruction cycle, machine cycle, T-states, basic idea of interrupts.	4	March	<ul style="list-style-type: none">• Derivations• Problem solving• Assignments• Revisions• Class Tests• Practice Examinations• Students' difficulties
Assembly language programming examples (addition with and without carry, subtraction with and without borrow, double addition, multiplication by repeated addition, division by repeated subtraction, block data transfer and checking of parity of a binary number).	3	April	<ul style="list-style-type: none">• Derivations• Related problems• Problem solving• Revisions• Class Tests• Practice Examinations• Discussion of Practice Examinations• Tips for Final exams