# 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 = One Only

| Name of Paper & Code | Allocation of Lectures | Month wise schedule followed by the Department | Tutorial/assignment/ Presentation etc. |
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| **DSE-10, MICROPROCESSOR, UNIT-II (14 Hours)** | | | |
| **Unit II: 8085 Programming**<br>Operation code, operand and mnemonics, instruction set of 8085, instruction classification, addressing modes, instruction format. | 4 | January-February | • Syllabus Overview<br>• Reference Books<br>• Problem solving<br>• Assignments<br>• Revisions<br>• Practice Examinations<br>• Students' difficulties |
| Data transfer instructions, arithmetic instructions, increment & decrement instructions, logical instructions, branch instructions and machine control instructions. | 3 | February | • Problem solving<br>• Assignments<br>• Students' difficulties<br>• Class Test |
| Subroutine, call and return instructions, timing diagrams-instruction cycle, machine cycle, T-states, basic idea of interrupts. | 4 | March | • Problem solving<br>• Revisions<br>• Class Tests<br>• Practice Examinations<br>• Discussion of Practice Examinations<br>• Tips for Final exams |
| 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 | • Problem solving<br>• Revisions<br>• Assignments<br>• Class Tests<br>• Practice Examinations<br>• Students' difficulties<br>• Tips for Final exams |