

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly West Bengal University of Technology)
Syllabus for B. Tech in Computer Science & Engineering
(Applicable from the academic session 2018-2019)

Subject Code : PCC-CS 392	Category: Professional Core course
Subject Name : computer Organisation	Semester : Third
L-T-P : 0-0-4	Credit: 2
Pre-Requisites: No-prerequisite	

1. Familiarity with IC-chips, e.g.
 - a) Multiplexer , b) Decoder, c) Encoder b) ComparatorTruth Table verification and clarification from Data-book.
 2. Design an Adder/Subtractor composite unit .
 3. Design a BCD adder.
 4. Design of a 'Carry-Look-Ahead' Adder circuit.
 5. Use a multiplexer unit to design a composite ALU .
 6. Use ALU chip for multibit arithmetic operation.
 7. Implement read write operation using RAM IC.
 8. (a) & (b) Cascade two RAM ICs for vertical and horizontal expansion.
- (Detailed instructions for Laboratory Manual to follow for further guidance. The details will be uploaded in the website from time to time)