

Notice

ISA 1- MPCA Course (UE19CS252)

Portions and Question Paper Pattern

ISA Date: 17th March 2021

Time: 11:30 to 1:30

Marks: 60 Marks which will be scaled down to 24

Syllabus:

Unit 1: Complete as per the Handout and Course Information (1 to 12)

ARM Processors, Register set, Instruction sets (Data Processing, Data Transfer and Control Instructions), Instruction Encoding. STACK operations. Interrupts.

Note: Required information for instruction encoding will be provided in the question paper if required.

Unit 2: Complete as per the Handout and Course Information (13 to 23)

Design Issues of Pipeline Processor. Performance Analysis, Speedup.

Structural Hazards, Data Hazards, Control Hazards, Branch Prediction Techniques.

Unit 3: Lecture number 24 to 31 in Course Information which includes,

Introduction to Memory, Bottleneck, Hierarchy, Cache design Principles, Mapping techniques, Replacement Policies, Write Policy and Performance Analysis.

Question Paper Pattern:- Each Question carries 10 marks

Unit 1: Question 1 & 2

Unit 2: Questions 3 & 4

Unit 3: Question 5 & 6.