Certificate Course in Embedded System Designing 8051 & ARM/ Cortex Microcontroller

Objective of the Course:
To train engineering under-graduates on 8051 and ARM/ Cortex microcontrollers. Design new embedded systems using C- language programme and interfacing various peripherals.

Learning Outcomes:
After the end of the course the student will be able to understand the hardware interfacing of the peripherals to microcontrollers. Design new embedded systems using microcontrollers.

Expected Job Roles:
Embedded Programmer

Duration of the Course (in hours)   120 hrs

Appr. Fees (INR):   Rs.16,000/-

Minimum Eligibility Criteria and pre-requisites, if any   Diploma, Engineering Under graduates (Undergoing)

Outline of Course

S. No	Topic	Minimum No. of Hours
1.	Embedded C	8 hrs
2.	8051 Architecture	2 hrs
3.	8051 Peripherals & Interfacing	8 hrs
4.	ARM /Cortex architecture	6 hrs
5.	ARM /Cortex Peripherals & Interfacing	16 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	80 hrs (including project)
	Total Hours:	120 hrs

Books recommended for reference and reading: The definite guide to the ARM Cortex- M3, second edition.

Group Code: EMBD   **Group Name:**   Embedded System

Course Code: CP01   **Course Name:**   Certificate Course in Embedded System Designing 8051 & ARM/ Cortex Microcontroller