Certificate Course in DSP Using MATLAB

Objective of the Course:

This course aims to provide students with an in depth hands on demonstration and practical sessions, within a stimulating environment. This lab will introduce you to MATLAB as a tool for designing and evaluating digital filters, prior to implementing them in hardware.

Learning Outcomes:

After successful completion of the course, the students shall be able to implement DSP algorithms using MATLAB.

Expected Job Roles:

Embedded Programmer

Duration of the Course (in hours)	80 hrs
Appr. Fees (INR):	Rs.8000/-
Minimum Eligibility Criteria and pre-requisites, if any	Engineering graduates (undergoing also)

Outline of Course

S. No	Topic	Minimum No. of Hours
1.	Introduction to MATLAB	8 hrs
2.	Digital signal processing	8 hrs
3.	Digital signal in time domain	6 hrs
4.	Digital signal in frequency domain	10 hrs
5.	Digital filters	8 hrs
	Theory / Lecture Hours:	40 hrs
	Practical / Tutorial / Lecture Hours:	40 hrs
	Total Hours:	80 hrs

Books recommended for reference and reading:	DSP using MATLAB. Sanjit K.Mitra Digital Signal Processing, Third Edition, Sanjit K. Mitra, Tata McGRWA Hill

Group Code:	EMBD	**Group Name:**	Embedded System
Course Code:	CT04	**Course Name:**	Certificate Course in DSP Using MATLAB