

ASSIGNMENT

TOPIC

CCA-10/- FUNDAMENTALS OF I.T AND PROGRAMMING

OVERVIEW : This course introduces student to the field of computer science and engineering.

Learning objectives : Upon completion of this course students will be able to :-

1. Define and discuss the disciplines of computer science with the intention of choosing future courses that are applicable to the student's personal learning goals.
2. Design non-trivial embedded software.

To CONTROL a Robot To navigate and interact within a controlled environment

Pre Requisite None

Lecture M, W 12:00 - 1:30 P.M
in RTH 105

Discussion TBA

Text Book C++ Programming : Program Design including Data Structures &th

Info Ed. D.S. MALIK Course Technology
2011 (ISBN 978 -1133526322)

Programming Assignment

Programming are largest
make Comprehensive assignment

That should challenge you to integrate several programming concepts. They are to be completed individually unless otherwise noted. See the statement on Academic Integrity.

INTRODUCTION to PROGRAMMING FOR COMPUTER SCIENTISTS

week 1 - overview of Computer Science and computer organization.

- INTRODUCTION to the CS and CECS Curriculum and Field.

ACTIVITY : Programming environment and Tools + First Program, ~~Test~~

LEARN basics OF Programming Environment
understand the concept OF Compiled
Program, Text editors, debuggers etc.

Week 2 - ~~Basik~~ Basic Program Design
and Abstraction + Programming
Environment

- Program Structure + Simple I/O
- Algorithms Big-O notation and Complexity.

Activity : Compiler and Run-Time
errors

Activity : Algorithms and Time
complexity. exercise + Research

algorithms in a chosen area of
interest.