



COMPUTER SYSTEMS & PROGRAMMING

Introduction

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Aims and Objectives

- To develop fundamental understanding of the organization and operation of desktop computer system
- To understand how high-level programs are represented and executed
- To introduce the organization and operations of the operating system software



Scope of Subject

- As a Mechanical Engineer, you should be able to:
 - Assemble and Disassemble desktop computer
 - Install and uninstall different software
 - Solve different mechanical engineering problem using programming languages (c, MATLAB, java)



Course Outline

- **PART 1 – INTRODUCTION TO COMPUTERS**
 - Hardware
 - Software

- **PART 2 – PROGRAMMING IN C**
- **PART 3 – PROGRAMMING IN MATLAB**



Books & Tools

- **Recommended books**
 - Introduction to Computers by Peter Norton
 - C Programming by Robert Lafore
 - Basics of MATLAB and Beyond by Andrew Knight
- **Reference books**
 - Using information technology by Williams & Sawyer
 - Hardware Bible by Winn Rosch
 - Upgrading & repairing PCs by Scott Mueller
 - Let us C by Yashvant Kanetkar
- **Software/Tools**
 - Microsoft Windows 7 and Microsoft Office 2010 or later
 - C language compiler with IDE
 - MATLAB 2010 or later



Questions

