

Information and Communication Technology (NSS)

Course Objectives:

Knowledge and Understanding

- Develop knowledge and understanding of the range and organization of computer systems, and the interrelationships between hardware, software and data; and
- Realize the social, ethical and legal issues pertaining to the use of ICT.

Sills

- Use a range of applications software effectively, ethically and with discrimination to support information processing and problem-solving; and
- Demonstrate an understanding of methods for analyzing problems, and planning and implementing solutions using ICT.

Values and Attitudes

- Appreciate how information literacy and the sharing of knowledge using ICT influence decision-making and shape our society; and
- Develop responsible and positive attitudes towards the use of ICT.

Syllabus:

The Compulsory Part

- A. Information Processing
 - a. Introduction to Information Processing
 - b. Data Organization and Data Control
 - c. Data Representation
 - d. The Use of Office Automation Software
 - e. Presentation of Information
- B. Computer System Fundamentals
 - a. Basic Machine Organization
 - b. System Software
 - c. Computer Systems
- C. Internet and its Applications
 - a. The Networking and Internet Basics
 - b. Internet Services and Applications
 - c. Elementary Web Authoring
- D. Basic Programming Concepts
 - a. Problem Solving Procedures
 - b. Algorithm Design

- c. Algorithm Testing
- E. Social Implications
 - a. Equity of Access
 - b. Work and Health Issues
 - c. Intellectual Property
 - d. Threats and Security on the Internet

The Elective Part

- A. Multimedia Production and Web Site Development
 - a. Multimedia Production
 - b. Web Site Development

Assessment and Examination

Component		Weighting	Duration
Public examination	Paper 1 Compulsory part	55%	2 hours
	Paper 2 Elective part	25%	1.5 hours
School-based assessment		20%	

Requirements for studying the subject

- like to play with computer
- like to surf internet
- good logical thinking