

Branch Name:	Mechanical Engineering, Automobile Engineering, Civil Engineering, Electrical Engineering
Program Code	---
Course Name:	Introduction to IT Systems
Course Code:	2ET4000105
Pre-requisite Course:	---

RATIONALE:

To generate an awareness about information technology's role in modern days. The Course aims to give insights of computer and internet world.

COURSE OBJECTIVE:

Inter-disciplinary branch students' can get basic knowledge of computer and its parts. Also know about the use of information technology with the help of internet and other communication media.

1. Understand the importance of information technology and its impact on society.
2. Understand the power and potential of the INTERNET.
3. Understand about hardware and software used in computer system.
4. Understand about various peripheral devices used with computer system.

TEACHING AND EVALUATION SCHEME:

TeachingScheme(Hoursperweek)				EvaluationScheme(Marks)				Total(Marks)
Lecture	Tutorial	Practical	Credit	Theory		Practical		
				University Assessment	Continuous Assessment	University Assessment	Continuous assessment	
-	-	2	1	-	-	20	30	50

DETAILS OF COURSE CONTENTS:

SR. NO.	TOPIC	TOTAL HOURS
1	Introduction of Information Technology 1.1 What is information? 1.2 Information technology 1.3 Information processing cycle 1.4 Data 1.5 Data vs. information 1.6 Use of computer in: 1.6.1. The home and at play 1.6.2. Education and training 1.6.3. Entertainment and the arts 1.6.4. Business and industries 1.6.5. Science, engineering and mathematics 1.6.6. Medicine, defense, space application etc	02

2	INTERNET 2.1 What is theInternet? 2.2 Web pages,Homepage,Use of websites 2.3 Access providers ,Types of access 2.4 The browser,Universal resource locators,Browsing or surfing the web 2.5 Internet phone 2.6Applications of the Internet E-mail, Voicemail,Newsgroup,Mailinglist, Internet relay chat,Games Video-conferencing ,File transfer protocol	06
3	COMPUTERHARDWARE 3.1 Classification of computers:- Super computers, Mainframe ,Desktop computers, Laptop computers/ Notebook computers 3.2 Anatomy of a computer:- Motherboard,CPU,SMPS,Expansion slots,Sockets and ports,Drives 3.3 Special input devices:- Pointing devices,Mouse,Trackballs,Tracksticks,Touchpads,Joysticks Modems, Scanners, Speech recognition devices 3.4 Special output devices:- Dotmatrix printers ,Laser printers, Colorprinters, Lineprinters ,Photo Printers, Thermal printers, Plotters	06

COURSEOUTCOME:

1. Effective use of computer systems
2. Solve basic computer hardware and software problems
3. Effective use of internet while browsing any website
4. Understanding of assembling and de-assembling computer parts

SUGGESTEDLISTOFPRACTICALS:

- To identify different parts of window(i.e.Toolbar,statusbar,addressbaretc)
- Basic window operations like create folder,create shortcut,cut,copy,paste etc
- To identify the different parts of computer system.
- Assembling and de-assembling of computer system
- Function of various parts of Computer.
- Differences between RAM and ROM
- Understanding BIOS–Basic Input /output System,CMOSIC
- Structure of HDD–HardDiskDrive,CD-ROM Disk & DiskDrive,DVD–Digital Versatile Disk.
- Use of NIC–Network Interface Card,Sound Card, Other Add- ONCard
- Types of Printers,Keyboard & Mouse with troubleshooting
- Basic Troubleshooting of computer system and computer network
- Installation of various OS and other software

LISTOFREFERENCES:

1. Information Technology-Curtin,Foley,Sen,Morin (Tmh)The breaking wave
2. Fundamentals of computers-V.Rajaraman(3rdedition)

E-Learning

Websites: <https://www.tutorialspoint.com/>

<https://edu.gcfglobal.org/>

<https://www.computerhope.com>

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Understand a computer system that has hardware and software components, which controls and makes them useful.	2 Understanding
CLO2	Understand the operating system as the interface to the computer system.	2 Understanding
CLO3	Use the basic functions of an operating system.	2 Understanding 3 Applying
CLO4	Set the parameter required for effective use of hardware combined with and application soft wares	3 Applying 6 Creating
CLO5	Compare major OS like Linux and MS-Windows	2 Understanding 4 Analyze
CLO6	Use file mangers, word processors, spreadsheets, presentation software's and Internet	4 Analyze

Course Learning Outcomes	Program Outcomes (Pos)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CLO1	H											
CLO2	M											
CLO3	H						M					
CLO4	M					H						
CLO5	M	H		L			H					
CLO6	H	M		M								M

H: High, M: Medium, L: Low