



HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai.)

Uthamapalayam, Theni District. Pin Code: 625 533.

DEPARTMENT OF INFORMATION TECHNOLOGY

PART – IV NME INFORMATION TECHNOLOGY

SYLLABUS

Choice Based Credit System – CBCS

(As per TANSCH/MKU Guidelines)

(Academic Year 2020 -2021 onwards)

Details of Course Category, Code, Credits & Title

Course Category	Course Code	Course Title	Hrs	CIAE	TEE	Max. Marks	Credits
Semester - I							
Part - IV							
NME - I	20UCTN11	Principles of IT	2	25	75	100	2
Semester - II							
Part - IV							
NME - II	20UCTN21	Internet and Web Programming	2	25	75	100	2

Course Code	Course Title	Category	Total Hours	Credits
20UCTN11	Principles of IT	NME - I	30	2

Nature of Course	
Knowledge Oriented	✓
Skill Oriented	
Employability Oriented	
Entrepreneurship Oriented	

Course Relevance	
Local	
Regional	
National	
Global	✓

Preamble

Understand the History of Computers. Understand about Computer and Basic concepts of computer. Aware about various types of Computers, types of input and output devices.

Syllabus

UNIT I

6 Hours

Computer Basics: Introduction – Generation of Computers – Types of Computers. Computer Application: In Business and Industry – In Home and At Play – In Education and In Training – In Entertainment and In Arts – In Science, Engineering and Math – Computers in hiding.

UNIT II

7 Hours

Computer Anatomy: The Anatomy of Computer : Central Processing Unit (CPU) – Keyboard – Monitor – Mouse – Optical Drive – Motherboard – Processor – Random Access Memory (RAM) – Read-Only Memory (ROM) – Hard disk – Video card – Graphic card – Sound card – Power Supply – Binary Number – Digital Signals – Other forms: Virtual memory – Cache memory.

UNIT III

7 Hours

Input and Output: Input Devices: keyboard and Key functions – Mouse and its types – Joystick – Scanner. Direct Input Devices: Magnetic stripe and Chip-PIN reader – Optical Mark Recognition (OMR) – Optical Character Recognition (OCR) – Bar Code – Light Pen – Touch Screen – Digital Camera. Output Devices: Display screen and its Types – Printers and its types – Pixels and Resolution – Fonts.

UNIT IV

6 Hours

Secondary Storage: Introduction – Types of Secondary Storage device: Floppy Disks – Hard Disk – USB Flash Drive – Flash Memory Cards – Optical Storage. Backing Up Your Data –The smart Card. Software's: Application Software – Operating Systems Software.

UNIT V

4 Hours

Internet and World Wide Web: Introduction – Types of Internet connection – Internet Applications – Web Browsers – Search Engines. Multimedia Essentials: Introduction – Multimedia Definition – Multimedia Applications.

Text Books

ITL Education Solution Limited, *Introduction to Information Technology*, Pearson Education, 6th Impression.

Reference Books

Alexis Leon and Mathews Leon, *Computer's Today*, Vikas publications.

Pedagogy

Chalk & Talk, E-Resources & Group Discussion

Teaching aids

Black Board, LCD Projector

Course Contents and Lecture Schedule

Module No.	Topic	No. of Lectures	Content Delivery Methods
UNIT - I			
1.1	Introduction – Generation of Computers – Types of Computers	3	PPT
1.2	Computer Application: In Business and Industry – In Home and At Play – In Education and In Training – In Entertainment and In Arts – In Science, Engineering and Math – Computers in hiding.	3	Chalk & Talk
UNIT - II			
2.1	The Anatomy of Computer : Central Processing Unit (CPU) – Keyboard – Monitor – Mouse – Optical Drive – Motherboard – Processor – Random Access Memory (RAM) – Read-Only Memory (ROM) – Hard disk – Video card – Graphic card – Sound card – Power Supply.	4	Chalk & Talk
2.2	Binary Number – Digital Signals	2	Discussion
2.3	Other forms: Virtual memory – Cache memory.	1	PPT

UNIT - III			
3.1	Input Devices: keyboard and Key functions – Mouse and its types – Joystick – Scanner. Direct Input Devices: Magnetic stripe and Chip-PIN reader – Optical Mark Recognition (OMR) – Optical Character Recognition (OCR) – Bar Code – Light Pen – Touch Screen – Digital Camera.	3	Chalk & Talk
3.2	Output Devices: Display screen and its Types – Printers and its types	3	Discussion, PPT
3.3	Pixels and Resolution – Fonts	1	Chalk & Talk
UNIT - IV			
4.1	Introduction – Types of Secondary Storage device: Floppy Disks – Hard Disk – USB Flash Drive – Flash Memory Cards – Optical Storage	3	Chalk & Talk
4.2	Backing Up Your Data – The smart Card.	1	PPT
4.3	Software's: Application Software – Operating Systems Software	2	Chalk & Talk
UNIT - V			
5.1	Introduction – Types of Internet connection – Internet Applications – Web Browsers – Search Engines.	2	Chalk & Talk
5.2	Multimedia Essentials: Introduction – Multimedia Definition – Multimedia Applications.	2	Discussion, PPT
Total		30	

Course Designer

Mr. K. A. Sheik Fareed

Assistant Professor of Information Technology

Course Code	Course Title	Category	Total Hours	Credits
20UCTN21	Internet and Web Programming	NME - II	30	2

Nature of Course	
Knowledge Oriented	✓
Skill Oriented	✓
Employability Oriented	
Entrepreneurship Oriented	

Course Relevance	
Local	
Regional	
National	
Global	✓

Preamble

Demonstrate competency in the use of common HTML code. Students are able to develop interactive static as well as dynamic websites.

Syllabus

UNIT I

6 Hours

Introduction to HTML: History of HTML – Structured of a HTML Program – HEAD and BODY Tags – Title Tag – Paragraph Tag – Heading Tag (H1 to H6) – Formatting Tags : Bold Tag – Italic Tag – Underline Tag – Strike Thru Tag – Subscript Tag – Super Script Tag.

UNIT II

5 Hours

Lists: Ordered List and Unordered List – Definition List – Heading in a List – Nested Lists – Marquee Tag – Break tag – Horizontal Ruler Tag – Font Tag.

UNIT III

7 Hours

Tables: Table Building Tags and Attributes of Table – Table Tag – Table Header Tag – Table Row Tag – Table Data Tag – Row Span – Column Span – Coloring Table Cells – Some Sample Tables.

UNIT IV

5 Hours

Links: Linking Pages Using Anchor tag – Attributes of Anchor Tag – Image Tag and Attributes – Frame Tag and Attributes.

UNIT V

7 Hours

Forms: Form Tag – Input Tag Types – Text Box, Radio Button, Submit Button, Check Box, Password – Internet and Browsers – Electronic Mail (E-Mail): E-Mail Address Structure – Checking E-Mail – Sending E-Mails – E-Mail Attachments – Sample Web page Creation.

Text Books

C Xavier, *World Wide Web Design with HTML*, TMG Hill, 2000.

Reference Books

HTML Complete Reference, BPB Publications, 2nd edition.

Pedagogy

Chalk & Talk, E-Resources & Group Discussion

Teaching aids

Black Board, LCD Projector

Course Contents and Lecture Schedule

Module No.	Topic	No. of Lectures	Content Delivery Methods
UNIT - I			
1.1	History of HTML – Structured of a HTML Program – HEAD and BODY Tags – Title Tag – Paragraph Tag – Heading Tag (H1 to H6)	3	PPT
1.2	Formatting Tags : Bold Tag – Italic Tag – Underline Tag – Strike Thru Tag – Subscript Tag – Super Script Tag	3	Chalk & Talk
UNIT - II			
2.1	Ordered List and Unordered List – Heading in a List – Nested Lists – Definition List	3	Chalk & Talk
2.2	Marquee Tag – Break tag – Horizontal Ruler Tag – Font Tag	2	Discussion, PPT
UNIT - III			
3.1	Table Building Tags and Attributes of Table – TABLE Tag – Table Header Tag – Table Row Tag – Table Data Tag	4	Chalk & Talk
3.2	Row Span – Column Span – Coloring Table Cells – Some Sample Tables.	3	Discussion, PPT

UNIT - IV			
4.1	Linking Pages Using Anchor tag - Attributes of Anchor Tag	3	Chalk & Talk
4.2	Image Tag and Attributes - Frame Tag and Attributes.	2	PPT
UNIT - V			
5.1	Form Tag - Input Tag Types - Text Box, Radio Button, Submit Button, Check Box, Password	3	Chalk & Talk
5.2	Internet and Browsers - Electronic Mail (E-Mail): E-Mail Address Structure - Checking E-Mail - Sending E-Mails - E-Mail Attachments - Sample Web page Creation	4	Discussion, PPT
Total		30	

Course Designer

Mr. K. A. Sheik Fareed

Assistant Professor of Information Technology