

**AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.**

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2020-'21)

<b>COMPUTER SCIENCE</b>	<b>ICT-I-201</b>	<b>2020-'21</b>	<b>B.A, B.Com, B.Sc.</b>
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**SEMESTER – II PAPER – I Max. Marks 50 Pass Marks 20 Total Hrs: 30**

**Syllabus INFORMATION & COMMUNICATION TECHNOLOGY No. of Hrs: 2 Credits: 2**

**Objectives:**

This course aims at acquainting the students with basic ICT tools which help them in their day to day and life as well as in office and research.

**COURSE OUTCOMES:** After completion of the course, student will be able to;

**CO1.** Understand the literature of social networks and their properties.

**CO2.** Explain which network is suitable for whom.

**CO3.** Develop skills to use various social networking sites like twitter, flicker, etc.

**CO4.** Learn few GOI digital initiatives in higher education.

**CO5.** Apply skills to use online forums, docs, spreadsheets, etc for communication, collaboration and research.

**CO6.** Get acquainted with internet threats and security mechanisms

**Unit-I: Basics of Computers**

**6 Hrs**

Definition of a Computer - Characteristics and Applications of Computers – Block Diagram of computer, What is Network, Definition, Network Types, Network Topologies, OSI MODEL

**UNIT-II:**

**8 Hrs**

**Fundamentals of Internet:** What is Internet?, Internet applications, Internet Addressing –Entering a Web Site Address, URL–Components of URL, Searching the Internet, Browser –Types of Browsers, Introduction to Social Networking: Twitter, Tumbler, LinkedIn, Face book, flicker, Skype, yahoo, YouTube, WhatsApp .

**UNIT-III:**

**8 Hrs**

**E-mail:** Definition of E-mail -Advantages and Disadvantages –User Ids, Passwords, Email Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail Management.

**G-Suite:** Google drive, Google documents, Google spread sheets, Google Slides and Google forms.

**UNIT-IV:**

**8Hrs**

**Overview of Internet security,** E-mail threats and secures E-mail, Viruses and antivirus software, Firewalls, Cryptography, Digital signatures, Copyright issues.

What are GOI digital initiatives in higher education? (SWAYAM, SwayamPrabha, National Academic Depository, National Digital Library of India, E-Sodh-Sindhu, Virtual labs, e-acharya, e-Yantra and NPTEL).

**Reference Books:**

1. In-line/On-line: Fundamentals of the Internet and the World Wide Web, 2/e – by Raymond Green law and Ellen Hepp, Publishers: TMH
2. Internet technology and Web design, ISRD group, TMH.
3. Information Technology – The breaking wave, Dennis P.Curtin, Kim Foley, Kunai Sen and Cathleen Morin, TMH.

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**SEMESTER – II PAPER – I**

**Max. Marks 50**

**Pass Marks 20**

**Model paper INFORMATION & COMMUNICATION TECHNOLOGY No. of Hrs: 2 Credits: 2**

**SECTION-A**

**Answer FOUR of the following questions**

**4x5=20M**

1. Explain characteristics of Computer?
2. Explain about network Topologies?
3. Write about URL and its components?
4. Explain about Internet Applications?
5. Explain about Message Composition?
6. Write about Google Spread Sheet?
7. Write about Viruses and antivirus software?
8. Explain about NPTEL?

**SECTION-B**

**Answer THREE of the following questions**

**3X10=30M**

9. Explain Block diagram of a Computer?
10. Explain OSI MODEL in Detail?
11. Explain Social Networking Sites?
12. Explain about Mail Management? Write advantages and Disadvantages of Email?
13. Explain Different types of Firewalls?

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SEMESTER – II

PAPER – I

Max. Marks 50

Guidelines for paper setting '**INFORMATION & COMMUNICATION TECHNOLOGY**'Unit wise weight age of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	1
Unit-3	2	1
Unit-4	2	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weight age given by us