MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA-8
(Affiliated to Krishna University, Machilipatnam)
SYLLABUS

Course Title: Information & Communication Technology
Course Code: 20LSCIT2
No. of Hours: 30   **LTP: 200**   **Credits: 2**

Objectives
- To provide education in the use of Information and Communication Technology or ICT.
- To encourage higher-level thinking and creativity through ICT.

Course Outcomes
CO1: Apply skills to use various social networking sites, online forums, docs, spreadsheets, etc for communication, collaboration and research.
CO2: Learn a few GOI digital initiatives in higher education.
CO3: Acquaint with internet threats and security mechanisms.

UNIT-I   **(5 Hrs.)**
Fundamentals of Internet: What is Internet?, Internet applications, Internet Addressing – Entering a Web Site Address, URL, Searching the Internet, Browser –Types of Browsers, Introduction to Social Networking: Twitter, Tumblr, LinkedIn, Facebook, flickr, Skype, yahoo, YouTube, WhatsApp.

UNIT-II   **(5 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 spreadsheets, Google Slides and Google forms.

UNIT-III   (**5 Hrs.**)
Overview of Internet security, E-mail threats and secure 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).

Skills / hands-on **(15 Hrs.)**

- Create your accounts for the above social networking sites and explore them, establish a video conference using Skype.
- Create an Email account for yourself- Send an email with two attachments to another friend. Group the email addresses using the address folder.
- Register for one online course through any of the online learning platforms like NPTEL, SWAYAM, Alison, Codeacademy, Coursera. Create a registration form for your college campus placement through Google forms.

Reference Books:

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