



B.TECH. -CIVIL ENGINEERING

**Value Added Course
On**

DIGITAL EMPOWERMENT

Branch: CE

Year & Sem.: III - I [VI Sem.]

A.Y.: 2024-2025

Course Objective:

The objective of learning Digital Empowerment is to make the students understand the digital world, need for digital empowerment, create awareness about Digital India, to explore, communicate and collaborate in cyberspace and to build awareness on cyber safety and security

Expected Outcomes:

The Learning Outcomes of this course are as follows:

1. Use ICT and digital services in daily life.
2. Develop skills to communicate and collaborate in cyberspace using social platforms, teaching/learning tools.
3. Understand the significance of security and privacy in the digital world.
4. Evaluate ethical issues in the cyber world

About the Course:

The Digital Empowerment course, provides digital literacy and empowerment opportunities through different means to build a competitive portfolio for the students.

Topics to be delivered:

Module-I: Digital inclusion and Digital Empowerment

S.No.	Topic	Lectures
1.	Needs and challenges	1
2.	Vision of Digital India: DigiLocker, E-Hospitals, e-Pathshala, BHIM, e-Kranti (Electronic Delivery of Services), e-Health Campaigns	4
3.	Public utility portals of Govt. of India such as RTI, Health, Finance, Income Tax filing, Education	4

Module-II: Communication and Collaboration in the Cyberspace

S.No.	Topic	Lectures
1.	Electronic Communication: electronic mail, blogs, social media	1
2.	Collaborative Digital platforms	2
3.	Tools/platforms for online learning	1
4.	Collaboration using file sharing, messaging, video conferencing	3

Module-III: Towards Safe and Secure Cyberspace

S.No.	Topic	Lectures
1.	Online security and privacy	1
2.	Threats in the digital world: Data breach and Cyber Attacks	3
3.	Blockchain Technology	2
4.	Security Initiatives by the Govt of India	2

Module-IV: Ethical Issues in Digital World

S.No.	Topic	Lectures
1.	Netiquettes	1
2.	Ethics in digital communication	3
3.	Ethics in Cyberspace	2

ANNEXURE-2

1. Rodney Jones and Christoph Hafner. "Understanding digital literacies: A practical Introduction". Routledge Books, 2nd edition, 2021
2. David Sutton. "Cyber security: A practitioner's guide", BCS Learning & Development Limited, UK, 2017

ANNEXURE-3

1. <https://www.digitalindia.gov.in>
2. <https://www.digilocker.gov.in>
3. <https://www.cybercrime.gov.in>
4. <https://www.cybersafeindia.in>
5. <https://www.meity.gov.in/cyber-surakshit-bharat-programme>.
6. <https://www.mha.gov.in/document/downloads/cyber-safety-handbook>

