

**Title of the Course** : **DIGITAL AND TECHNOLOGICAL SOLUTIONS**  
**Course Code** : **VAC 3 (OPTION 2)**  
**Nature of the Course** : **VALUE ADDED COURSE**  
**Total Credits** : **02**  
**Distribution of Marks** : **40 (End Sem) + 10 (In-Sem)**

**COURSE OBJECTIVES:**

- To provide advanced digital skills and knowledge to students
- To develop critical thinking and problem-solving abilities in the digital realm
- To prepare students to be leaders in the digital landscape
- To enhance students' employability by providing them with relevant and in-demand digital skills

UNITS	CONTENTS	L	T	P	Total Hours
1 (10 Marks)	<b>Advanced Internet Skills</b> Advanced search techniques and web development using HTML, CSS, and JavaScript, Understanding, and using web APIs, Building a responsive website.	02	01	10	13
2 (10 Marks)	<b>Digital Media and Content Creation</b> Advanced photo editing using Photoshop or GIMP, Video and audio editing using Final Cut Pro or Adobe Premiere Pro, Creating digital content for marketing and branding.	04	01	10	15
3 (20 Marks)	<b>Cybersecurity, Digital Privacy and Data Analytic</b> Advanced encryption techniques for data security, Understanding and mitigating advanced cyber threats, Implementing advanced digital privacy measures. Advanced data analysis using Excel or Tableau, understanding data visualization, and creating compelling visualizations, analyzing complex data sets to derive insights.	06	01	10	17
<b>Total (in Hrs)</b>		<b>12</b>	<b>03</b>	<b>30</b>	<b>45</b>

Where, *L: Lectures* *T: Tutorials* *P: Practicals(1P=2 Hours)*

**MODES OF IN-SEMESTER ASSESSMENT:**

- |                            |   |                   |
|----------------------------|---|-------------------|
| • One Internal Examination | - | <b>(10 Marks)</b> |
| • Others (Any one)         | - | <b>05 Marks</b>   |
| ○ Quiz                     |   | <b>05 Marks</b>   |
| ○ Seminar presentation     |   |                   |
| ○ Assignment               |   |                   |

**LEARNING OUTCOMES:**

After the completion of this course, the learner will be able to:

- Utilize advanced search techniques and web development tools to create responsive websites
- Edit digital media including photos, videos, and audio using advanced software
- Understand and implement advanced cybersecurity and privacy measures to protect digital assets
- Analyze complex data sets using Excel or Tableau and create compelling visualizations
- Lead digital transformation and drive innovation in organizations
- Adapt to changing technologies and trends in the digital landscape.

**SUGGESTED READINGS:**

1. P. N. Thomas and A. Raghuramaraju, "Digital India: Understanding Information, Communication and Social Change," New Delhi, India: Sage Publications India Pvt Ltd, 2017.

2. R. Thareja, "Computer Fundamentals and Programming in C," New Delhi, India:Oxford University Press, 2021.
3. R. P. Jain and S. K. Jain, "Introduction to Information Technology," New Delhi, India:Firewall Media, 2015.
4. K. D. Tripathi, "Social Media: Concepts, Practices and Trends," New Delhi, India: PHILearning Pvt. Ltd., 2020.
5. N. K. Venkateswaran, "Cyber Security and Digital Forensics: A Practical Approach," Boca Raton, FL: CRC Press, 2018.
6. S. Gandhi and R. Sharma, "Digital Privacy and Security," New Delhi, India: SpringerNature Singapore Pte Ltd, 2021.

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