

## Faculty of Computers and Information Technology

### Summer Training

**Information :**

**Course Code :** TR333

**Level :** Undergraduate

**Course Hours :** 4.00- Hours

**Department :** Digital Media Technology

**Area Of Study :**

- "Use modern techniques, up to date methods and tools for computing and information practice.
- "Compare, evaluate and select methodologies from range of techniques, theories and methods to develop computing and information systems.
- "Deal with the individual, social, environmental, organizational and economic implications of the application of computing and information.
- "Create and develop work plan independently.
- "Use effectively communication skills.
- "Own the needed knowledge and skills in the computing and information market.
- "Understand knowledge that enhances skills in fundamental area of computer science.
- "Use and adopt fundamental and advanced software and computer system in all development phases.
- "Comprehend deeply the basic concepts of computer science to develop and evaluate a computer based system process and components.

**Course outcomes :**

**a. Knowledge and Understanding: :**

|     |  |
|-----|--|
| 1 - | Describe the methodologies, practices and tools used in computer software systems development phases |
| 2 - | Identify the criteria for current use and future development of computer-based systems               |
| 3 - | Outline testing techniques and methods of computer based systems                                     |
| 4 - | Describe the basic concept of high level programming languages                                       |
| 5 - | Explain the principles and techniques of different areas in computer science                         |
| 6 - | Identify the fundamental topics of computer science  |

**b. Intellectual Skills: :**

|     |  |
|-----|--|
| 1 - | Implement the solutions of computing and information in academic disciplines             |
| 2 - | Determine measurement criteria for the deployment of a computer-system and evolution     |
| 3 - | Prepare presentations of computing and information systems                               |
| 4 - | Test and evaluate the functionality of computer and information systems                  |
| 5 - | Criticize a system using costs and different quality attributes and environmental impact |

**c. Professional and Practical Skills: :**

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|-----|---|
| 1 - | Run computing equipment in different physical environment                   |
| 2 - | Use different computing technologies in projects development and deployment |
| 3 - | Design, implement, test, maintain and manage software systems               |

|     |   |
|-----|---|
| 4 - | Manipulate big data and draw conclusions  |
| 5 - | Use human computer interaction principles in the construction and evaluation of user interfaces for wide ranges of applications |
| 6 - | Deploy effective supporting tools for the development and documentation of software systems                                     |
| 7 - | Create technical reports according to professional standards  |

**d.General and Transferable Skills: :**

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|-----|--|
| 1 - | Exploit a range of learning resources  |
| 2 - | Work in a team to develop the requirement documentation  |
| 3 - | Use Information Retrieval techniques   |
| 4 - | Apply communication skills in presentations and report writing using various methods and tools |
| 5 - | Apply quantitative methods and skills in understanding and presenting cases                    |
| 6 - | Utilize effectively general computing facilities   |
| 7 - | Appreciate continuous professional development and lifelong learning                           |

**Course Topic And Contents :**

| Topic  | No. of hours | Lecture | Tutorial / Practical |
|--|--------------|---------|----------------------|
| Weekly diary participation in some related computer training |              |         |                      |
| Reporting and discussion Evaluation                          |              |         |                      |

**Teaching And Learning Methodologies :**

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|--|
| Interactive discussion   |
| Tutorials  |
| Practical Lab Sessions   |
| Self-Study (Project / Reading Materials / Online Material / Presentations) |
| Seminars   |
| Case Studies   |
| Problem Solving  |

**Course Assessment :**

| Methods of assessment | Relative weight % | Week No | Assess What |
|-----------------------|-------------------|---------|-------------|
| training evaluation   | 100.00            |         |             |