

UNR1103 ICT Skills**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
None	1	1	2	0	0	2

COURSE AIM

Introducing students with Computer Applications, ICT Skills and impact of ICT on various sectors. Digital Transformation and Information Technology at the edge of 4th Industrial Revolution and Ethics of Technology. Data presentation, processing, Big Data Volumes, new technology for data storage handling and principles of Artificial intelligence in various Engineering Sectors. Learn Web-Development, websites building tools and Web-Search Skills. Creating generative forms, GUIs Graphical user interfaces. Creating Database Files and GUIs links with Database handling Tools and application case studies in various Engineering problems. Fundamentals of Mobile Applications, needs, development tools and application case-studies.

COURSE WEEKLY CONTENTS

- 1 Introduction on Computer Applications, ICT Skills and impact of ICT on various community services, marketplace, educations and other sectors.
- 2 Digital Transformation and Information Technology at the edge of 4th Industrial Revolution and Ethics of Technology.
- 3 New Technologies on computer-based aided-design and Computer-based Design Tools
- 4 Data presentation, processing, Big Data Volumes, new technology for data storage handling and principles of Artificial intelligence
- 5 HTML Basics -Learn Web Development and Web-Search
- 6 Web-site Building Fundamentals and Web-site Building Tools.
- 7 7th Week assessment.
- 8 Excel Spread Sheets, Formulas, statistics & Charts and generative sheets.
- 9 Creating generative forms, GUIs Graphical user interfaces.
- 10 Creating Database Files and GUIs links with Database handling Tools
- 11 Computer Drawing and graphical Design Tools
- 12 12th Week assessment.
- 13 Graphics visual representation, Computer software tools, Presentation skills.
- 14 Fundamentals of Mobile Applications, needs, and application case-studies.
- 15 Mobile App development Tools, building blocks and creating Mobile GUIs.

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	←		30	MARKS		→	30
8 to 12	←		20	MARKS		→	20
1 to 15	←		10	MARKS		→	10
16 or 17	40	Final					40

REFERENCES

Textbook • "The ICT Revolution", Oxford University Press