

## IT Department Program Core Courses

Course Code	Course Name	Theory	Practical	Total Credits	Prerequisite	Co-requisite
IT 131	Database	2	1	3	CS 111	-
IT 214	Object Oriented Programming I	2	1	3	CS 182	-
IT 215	Human Computer Interaction (HCI)	2	0	2	IT 214	-
IT 221	Information Assurance and Security	3	0	3	IT 251	-
IT 251	Information System Fundamentals	3	0	3	-	-
IT 271	Web Technologies	2	1	3	CS 182	-
IT 315	Object Oriented Programming II	2	1	3	IT 214	-
IT 332	Advance Database	3	1	4	IT 131	-
IT 352	Information Systems Analysis & Design	3	0	3	IT 251	-
IT 361	System Administration and Maintenance	2	1	3	IT 251	-
IT362	Communication Skills & Ethics issues	2	0	2	-	-
IT 342	Mobile and Cloud Computing	2	1	3	IT 214	-
IT 372	Data Mining and Warehousing	3	0	3	IT 332	-
IT 435	Decision Support Systems	3	0	3	IT 332	-
IT 473	Electronic Commerce Systems	3	0	3	IT 352	-

No.	Course Code & Title	Level	a	b	c	d	e	f	g	h	i	j	k	l	m	n	
1	IT131-Database (common course)	3			H					H		M					
2	IT214-Object Oriented Programming I	5	H	H											H		
3	IT215-Human Computer Interaction (HCI)	7		H								H	M				
4	IT221-Information Assurance and Security	6					H				M	H					
5	IT251-Information System Fundamentals	5							M		M				H		
6	IT271-Web Technologies	5			H						H	M					
7	IT315-Object Oriented Programming II	8			H						H	M					
8	IT332-Advance Database	7			H	M					H						
9	IT342-Mobile and Cloud Computing	8	M		H						H						
10	IT352-Information Systems Analysis & Design	6		H	H										H		
11	IT361-System Administration and Maintenance	7			M							H	H				
12	IT362-Communication Skills and Ethics Issues (common course)	8				H	M	H									
13	IT372-Data Mining and Warehousing	8	M								M	H					
14	IT435-Decision Support Systems	10			H										H	M	
15	IT473-Electronic Commerce Systems	9, 10			H		H								H		
16	IT498-Graduation Project I	LYP		H		H	M	M	H			H			H	M	H
17	IT498-Graduation Project II	LYP			H	H	M	H				H	M		M		
Total		H	1	4	9	3	2	2	1	1	5	6	4	0	2	1	
		M	2	0	1	1	3	1	1	0	3	3	2	0	3	0	
		All	3	4	10	4	5	3	2	1	8	9	6	0	5	1	

**Table: Obligatory Courses from Outside Department – 10 Credits**

Course Code	Course Name	Theory	Practical	Total Credits	Prerequisite	Co-requisite
COE 351	Computer Networks	3	0	3	CS 222	COE 352
COE 352	Computer Networks Lab	0	1	0	-	COE 351
CS 211	Concepts of Algorithms	3	0	3	CS 181	-
CS 383	Software Engineering	3	0	3	CS 222	-
<b>Total</b>		<b>9</b>	<b>1</b>	<b>10</b>		

## IT Department Program Educational Objectives (PEOs)

1. Knowledge:  
Graduate will be able to solve the problems with knowledge, skills and high quality education acquired during program with basic concepts, principles and theories in different fields of Information Technology, and scientific researches.
2. Professional Achievement:  
Enable students to apply their knowledge, develop solutions for the problems and implement these solutions efficiently and effectively for different applications and systems in the fields of Information Technology that contributes nationally.
3. Lifelong Learning:  
Enables the graduates to complete the graduate studies in the Information Technology and other related fields.
4. Communal Responsibility:  
Prepare students with the knowledge, and to provide assistance and guidance for them to acquire required skills in the field of specialization as active members of a teamwork, and understanding of importance of the team and bearing personal and social responsibility.
5. Ethical Standards:  
Enable students to consider the ethical, legal, security and social issues of the technology, learn them then take responsible actions.

## IT Department Program Student Outcomes

a) An ability to apply knowledge of computing and mathematics appropriate to the discipline.
b) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
c) An ability to design, implement, and evaluate a computer-based system, processes, components, or programs to meet desired needs.
d) An ability to work effectively in teams to accomplish a common goal.
e) An understanding of professional, ethical, legal, security and social issues and responsibilities.
f) An ability to communicate effectively with a range of audiences for the purpose of supporting and serving the community and the surrounding environment.
g) An ability to analyze the local and global impact of computing on individuals, organizations, and society
h) Recognition of the need for and an ability to engage in continuing professional development
i) An ability to use current techniques, skills, and tools necessary for computing practice.
j) An ability to use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, and web systems and technologies.
k) An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.
l) An ability to effectively integrate IT-based solutions into the user environment.
m)An understanding of best practices and standards and their application.
n) An ability to assist in the creation of an effective project plan.