

This is an Integrated - Dual Degree five years Post Graduate Programme. The objective of the programme is to prepare the competent IT managers, who can contribute to the upliftment of their organization by their excellent skill of Information Technology, The curriculum would stress on development of skills essential for developing a career in the field of business computer applications. The programme aims at developing IT professional with analytical skill, reporting skill, programming skill, networking and troubleshooting skill so that they can contribute in management decisions, development of websites, maintain / upgrade the software applications and networking and work as a good team member. After successful completion of the course, one can be employed as Systems Analyst, Software Engineer, Project leader, system programmer etc. at a higher grade.



Semester- 1		
Core Courses		
Core	1.	Introduction to Information Technology
	2.	Computer Organization
	3.	Problem solving methodology & Programming in C
	4.	PC Softwares
	5.	Practical-I
Elective Courses		
Any one	1.	Desktop Publishing
	2.	IT in Business
Foundation Course		
	1.	Functional English-I
	2.	Mathematics-I

Semester- 3		
Core Courses		
Core	1.	Operating Systems - 1
	2.	Advanced Data and File Structures
	3.	Object Oriented Programming and C++
	4.	Relational Database Management Systems-I
	5.	Practicals-III
Elective Courses		
Any one	1.	Business Information System
	2.	RDBMS for Small Scale Organizations
Foundation	1.	Financial and Accounting Management

Semester- 5		
Core Courses		
Core	1.	Software Engineering-1
	2.	Computer Architecture
	3.	Object Oriented Programming through Java
	4.	Server side Web Programming using ASP.NET
	5.	Practical -V
Elective Courses		
(any one) Elective	1.	Multimedia Technology
	2.	Introduction to Green IT
Foundation	1.	Operation Research

Semester- 7			
Core Courses			
Core	1.	System Software	4
	2.	Analysis and Design of Algorithms	4
	3.	Advanced Java Programming	4
	4.	Advanced Computer Networking	4
	5.	Practical -VII	6
Elective Courses			
Any one	1.	Image Processing	3
	2.	Bioinformatics	
Total Credits			25

Semester- 9			
Core Courses			
Core	1.	Emerging Trends in IT	4
	2.	Data Warehouse and Data Mining	4
	3.	Compiler Design	4
	4.	Application Development using android Platform-II	4
	5.	Practical - IX	6
Elective Courses			
Any one	1.	Distributed Computing	3
	2.	Parallel Computing	
Total Credits			25

Semester- 2		
Core Courses		
Core	1.	Management Information Systems
	2.	Systems Analysis & Design
	3.	Advanced C Programming & Introduction to Data Structure
	4.	Web Application Development
	5.	Practical-II
Elective Courses		
Any one	1.	Digital Electronics
	2.	Introduction to Computer Hardware
Foundation Course		
	1.	Functional English- II
	2.	Mathematics-11

Semester- 4		
Core Courses		
Core	1.	Operating Systems - II
	2.	Data Communication & Networking
	3.	Visual Programming Through VB. NET
	4.	Relational Database Management Systems-II
	5.	Practicals-IV
Elective Courses		
Any one	1.	Cyber Security
	2.	Basics of UNIX Operating System
Foundation	1.	Computer Based Numerical and Statistical Methods

Semester- 6		
Core Courses		
Core	1.	Software Engineering-II
	2.	E-Commerce
	3.	Computer Graphics
	4.	Linux and Shell Programming
	5.	Practicals-VI and Project
Elective Courses		
(any one) Elective	1.	Enterprise Resource Planning
	2.	Introduction to Simulation
Foundation	1.	Software Project Management

Semester- 8			
Core Courses			
Core	1.	Web Programming using PHP	4
	2.	Wireless Communication	4
	3.	Artificial Intelligence	4
	4.	Application Development using Android platform-1	4
	5.	Fractal -VI II	6
Elective Courses			
Any one	1.	Software testing	3
	2.	Geographic Information System	
Total Credits			25

Semester- 10		
Core Courses		
Core	1.	Project Work
Total Credits		
		25

Note: Nomenclature of M.Sc. IT (Integrated) Program is changed to B.Sc. (Computer application and Information Technology) - M.Sc. (Computer Application and Informal Technology) i.e. B.Sc. (CA & FT) - M.Sc. (CA & IT) Dual Degree Program from academic year 2016-17 onwards.