

**St. Francis Institute of Technology
Borivali (West), Mumbai-400103
Information Technology Department**

COURSE OUTCOMES

Semester V

Course name: ITC501 (Internet Programming) Year of Study: 2021-22

C501.1	Create interactive web page(s) in groups using HTML,CSS and JavaScript.	
C501.2	Design a responsive web site applying HTML5 and CSS3 features relevant to the professional engineering practice	
C501.3	Create Rich Internet Applications (RIA) .	
C501.4	Build Dynamic web site using server side PHP Programming and Database connectivity.	
C501.5	Describe and critique difference between Web Extensions and Web Services.	
C501.6	Describe web application using Python web Framework-Django	

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C01		2							3			
C02		3			3	2			3			
C03		3	2						3			
C04		3	3						3			
C05		3	3						3			
C06		3	3						3			

CO-PSO Mapping

COs	PSO1	PSO2	PSO3	PSO4	
C01	3			2	
C02	3			2	
C03	3			2	
C04	3			2	
C05	3			2	
C06	3			2	

Course name: C502 (Computer Network security)**Year of Study: 2021-22**

student will be able to:

C502.1	Explain the fundamentals concepts of computer security and network security
C502.2	Identify the basic cryptographic techniques using classical and block encryption methods.
C502.3	Study and describe the system security malicious software.
C502.4	Understand and analyze the Network layer security, Transport layer security and application layer security.
C502.5	Explain the need of network management security and illustrate the need for NAC
C502.6	Identify the function of an IDS and firewall for the system security

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3											
CO2	3	3										
CO3		3										
CO4			3									
CO5			3									
CO6			3		2							

CO-PSO Mapping

COs	PSO1	PSO2	PSO3	PSO4	
CO1		3			
CO2		3			
CO3		3			
CO4		3			
CO5		3			
CO6		3			

Course name: ITDL05013 (Advanced Database Management Technology)**Year of Study: 2021-22**

C503.1	Students will be able measure query costs and design alternate efficient paths for query execution
C503.2	Students will be able to explain and understand the concept of a transaction and analyse how ACID properties are Maintained when concurrent transaction occur in a database
C503.3	Students will be able to apply sophisticated access protocols to control access to the database and apply appropriate techniques of advanced data models like mobile and spatial databases.
C503.4	Students will be able to implement alternate models like Distributed databases and Design applications using advanced databases
C503.5	Students will be able to organize strategic data in an enterprise by applying appropriate ETL techniques and build a data Warehouse.
C503.6	Students will be able to analyze data using OLAP operations so as to take strategic decisions

CO-PSO Mapping

COs	PSO1	PSO2	PSO3	PSO4	
C01	3	2			
C02	3	2			
C03		2			
C04		3			
C05	-	3			
C06	-	2			

Course name: ITDLO5011 (Advanced Data Structures and Analysis of Algorithms)

Year of Study: 2021-22

C5015.1	To analyze and calculate the complexity of a given algorithm.
C5015.2	To choose and design appropriate advanced data structure for a given problem.
C5015.3	To use the divide and conquer approach and solve the problems.
C5015.4	To apply the greedy technique and solve the problems.
C5015.5	To apply the dynamic programming technique and solve the problems.
C5015.6	To select and apply a proper pattern matching algorithm for a given problem.

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C01	3	3										
C02		3	3									
C03		3	3									
C04		3	3									
C05		3	3									
C06		3	3									

CO-PSO Mapping

COs	PSO1	PSO2	PSO3	PSO4	
C01	3				
C02	3	3			
C03	3	3			
C04	3	3			
C05	3	3			
C06	3	3			