



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated M.Sc. (Computer Science)
(With Specialization: AI and Data Science/IoT/ Cyber Security)

**With effective
from academic
year 2022-23**

Subject Code: 1330303
Semester- III
Subject Name: Client Server Architecture and Interface

Teaching and Examination Scheme

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE(E)	PA (M)	PA (V)	PA (I)	
3	0	2	4	70	30	30	20	150

Content:

Sr. No.	Content	Teaching Hours	Module Weightage (%)
1	Client/Server Computing Advantages of Client/Server Computing – Technology Revolution – Connectivity – Ways to improve Performance – How to reduce network Traffic	5	20
2	Components of Client/Server Applications The Client: Role of a Client – Client Services – Request for Service. Components of Client/Server Applications – The Server: The Role of a Server – Server Functionality in Detail – The Network Operating System – What are the Available Platforms – The Server Operating system	10	20
3	Components of Client/Server Applications Connectivity Open System Interconnect – Communications Interface Technology – Interprocess communication – WAN Technologies.	5	20
4	Components of Client/Server Applications–Software Factors Driving demand for application software development – Rising Technology Staff costs – Need to improve Technology – Need for Common Interface across Platforms – Client/Server System Development Methodology. Components of Client/Server Applications.	10	20
5	Components of Client/Server applications–Service and Support System Administration, The Future of Client/Server Computing: Enabling Technologies – Transformational Systems. Session and State, State management using query string, hidden form controls, Cookies, Session variables	10	20

Reference Books:

1. Client/Server Computing by Patrick Smith, Steve Guengerich, Prentice Hall of India Private Limited, New Delhi, 2nd Edition.
2. Client/Server Computing by Devendra Kumar, Global Academic Publishers & Distributors, 2015.
3. Client/Server Unleashed by Neil Jenkins, Sams Publishing.
4. Client/Server survival Guide by Dan Harkey, Jeri Edwards, Wiley Computer Publishing.



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Course outcomes:

After learning the course, the students should be able to:

No.	CO statement
CO-1	Develop Windows Applications and Web Applications in .Net Framework analyzing user requirements.
CO-2	Demonstrate working advanced features of .Net programming.
CO-3	Design GUI Applications.
CO-4	Utilize the .Net framework to build distributed enterprise applications.