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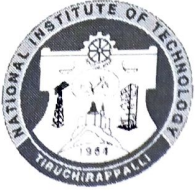
DEPARTMENT OF COMPUTER APPLICATIONS

COURSE PLAN – PART I			
Name of the programme and specialization	**Master of Computer Applications**		
Course Title	**DISTRIBUTED TECHNOLOGY LAB**		
Course Code	**CA706**	**No. of Credits**	**2**
Course Code of Pre-requisite subject(s)	**CA726**		
Session	**January 2019**	**Section (if, applicable)**	**A**
Name of Faculty	**G.R.Gangadharan**	**Department**	**Computer Applications**
Official Email	**ganga@nitt.edu**	**Telephone No.**	**0431-2503737**
Name of Course Coordinator(s) (if, applicable)	**Dr.P.J.A.Alphonse**		
Official E-mail	**alphonse@nitt.edu**	**Telephone No.**	**0431-2503742**
Course Type (please tick appropriately)	**Core course**		

Syllabus (approved in BoS)
Simple Client and Echo Server Example.
Graphical Client and Multithreaded Echo Server.
Synchronization with shared data and threads
Broadcasting and Multicasting
Sending and Receiving Objects (Object Serialization)
Database Communications
Java RMI
Any Middleware Application

COURSE OBJECTIVES
To learn the various distributed objects and technologies.

MAPPING OF COs with POs

Course Outcomes	Programme Outcomes (PO) (Enter Numbers only)
1. Graphical Client and Multimedia Eco Server	I,II, III,IV,V
2. Synchronization with shared data and threads	I,II, III,IV,V
3. Sending and Receiving Objects (Object Serialization)	I,II, III,IV,V
4. Middleware Applications	I,II, III,IV,V

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COURSE PLAN – PART II

COURSE OVERVIEW

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Lab Exercises	
1	Week 1	Simple Client and Echo Server Example	
2	Week 2	Graphical Client and Multithreaded Echo Server	
3	Week 3	Graphical Client and Multithreaded Echo Server	
4	Week 4	Synchronization with shared data and threads	
5	Week 5	Broadcasting and Multicasting	
6	Week 6	Sending and Receiving Objects (Object Serialization)	
7	Week 7	Database Communications	
8	Week 8	Database communications	
9	Week 9	Java RMI	
10	Week 10	Any Middleware Application	
11	Week 11	Any Middleware Application	

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Lab Exercises Demo	Every Week		40
2	Lab Report	10th week		10
3	Model Test	8th Week	180 Minutes	25
CPA	Compensation Assessment*			
4	Final Assessment *		180 Minutes	25

*mandatory; refer to guidelines on page 4

COURSE EXIT SURVEY

- The students through the class representative may give their feedback at any time to the course coordinator which will be duly addressed.
- The students may give their feedback during class committee meetings.

COURSE POLICY

MODE OF CORRESPONDENCE

By Email: ganga@nitt.edu

COMPENSATION ASSESSMENT POLICY

Compensation assessment will be conducted for absentees in cycle test I or cycle test II only after the submission of medical or On-Duty certificates signed by competent authority.

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

- ➤ At least 75% attendance in each course is mandatory.

- ➤ A maximum of 10% shall be allowed under On Duty (OD) category.

- ➤ Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

ACADEMIC DISHONESTY & PLAGIARISM

- ➤ Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.

- ➤ Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.

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> ➤ The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.

> ➤ The above policy against academic dishonesty shall be applicable for all the programmes.

ADDITIONAL INFORMATION, IF ANY

FOR APPROVAL

Course Faculty _____   **CC- Chairperson** _____   **HOD** _____

Guidelines

a) The number of assessments for any theory course shall range from 4 to 6.

b) Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.

c) One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.

d) The passing minimum shall be as per the regulations.

B.Tech. Admitted in				P.G.
2018	**2017**	**2016**	**2015**	
35% or (Class average/2) whichever is greater.		(Peak/3) or (Class Average/2) whichever is lower		40%

e) Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.

f) Absolute grading policy shall be incorporated if the number of students per course is less than 10.

g) Necessary care shall be taken to ensure that the course plan is reasonable and is objective.