

FACULTY OF SCIENCE

Effective from Academic Batch: 2022-23

Programme: Master of Science (Information Technology)

Semester: IV

Course Code:

Course Title: Project Work

Course Group: CORE COURSES

Course Objectives:

1. To provide the hands on experience in analyzing, designing and implementing various projects, students are assigned major projects based on the languages they have learned so far.
2. To solve industrial (or society or research) problems.
3. To plan, schedule, and monitor the software project.
4. To develop, code, and test a large project cohesively.
5. To learn documentation of a project.

Teaching & Examination Scheme:

Contact hours per week			Course Credits	Examination Marks (Maximum / Passing)				
Lecture	Tutorial	Practical		Theory		J/V/P*		Total
				Internal	External	Internal	External	
--	--	--	24	--	--	240/96	360/144	600/240

* J: Jury; V: Viva; P: Practical

Guidelines:

1	The project definition should be finalized after 3 rd semester Examinations.
2	It is recommended that the team should be maximum about 2-3 students
3	Project plan [along with the division of work amongst teammates] would have been prepared and got approved within a maximum of 01 week of the start of the project.
4	It is advisable that object-oriented methodology is used with the reusability of classes and code, etc..
5	The output reports in the form of documentation should include a chapter on "Learning during Project Work", i.e. "Experience of Journey during Project Duration"
6	Data structure (database design) is mandatory
7	If a student is compelled to follow certain instructions (by the external, i.e. organization's Guide) which he/she does not agree to, such a student must prepare a supplementary report to document his/her version and present it to the examiners if such a need arises.
8	Internal guides (i.e. The faculty members) must devote the time allocated as per the timetable to guide the students for the project.
	Every 15 days students should be shows their project work progress to internal guide.



9	Every end of months students should be submits monthly progress reports to internal guide duly signed by external guide.
10	Internal guides (i.e. The faculty members) should preferably visit external guide to to track the project.
11	Project document/presentation should be prepared according to general instructions provided by college/university and documentation reports printed on single sides of paper for 02 copies of hard binding reports.
12	The semester end assessment of project work presentation shall be on the basis of presentation, documentation and viva voce.

Pedagogy:

At the start of course, the course delivery pattern, prerequisite of the subject will be discussed. The assessment and evaluation process will be broadly classified with the following 02 components viz.,:

1. In- Semester continuous Internal assessment and evaluation, and
2. End- Semester final examination

The weightage of internal assessment for theory/practical course will be 40%.

However, the remaining 60% weightage for theory/practical courses will be for End-Semester final examination.

Evaluation of the projects would be done considering the framework available at the Institute. The main parameter of assessment would be the ability of the students to code.

Though the project and domain specific knowledge would be assessed for, the evaluation would predominantly depend on the students' ability to explain, modify or revise of code.

Coding standards should have been implemented.

[Though the project would be evaluated for the entire team, the examiner should emphasize on the contribution of each team member in the project development]

In-Semester Continuous internal evaluation:

1. One Internal exam will be conducted as a part of internal project work evaluation.
2. Attendance/Monthly Progress work/reports will be considered in the internal evaluation.
3. Documentation/Presentation/Viva Voce are part of the internal evaluation.
4. Explanation of Analysis & Design/ Explanation of Code will be considered in the internal evaluation

Suggested Specification table with Marks (Theory) (Revised Bloom's Taxonomy):

Distribution of Theory Marks in %						R: Remembering; U: Understanding; A: Applying; N: Analyzing; E: Evaluating; C: Creating
R	U	A	N	E	C	
5	5	40	5	5	40	

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.



Course Outcomes (CO):

Sr.	Course Outcome Statements	%weightage
CO-1	<p>Doing the project will enable the student to go through rich experience in developing large projects. Such an experience will include encountering various technical issues, finding sources to resolve the issues and finally finding the solution of all these issues satisfactorily.</p> <ul style="list-style-type: none">Thinking analytically, analyzing, and synthesizing requirements and complicated information for getting a good comprehension of the solution methodology to be adopted.Ability to document and write well.Organizing the time effectively.Working with teammates and generating substantial output of the efforts.It will prepare the students for analyzing and programming for industrial problem and large projects work in future.	100

Curriculum Revision:

Version:	1.0
Drafted on (Month-Year):	April-2022
Last Reviewed on (Month-Year):	April-2022
Next Review on (Month-Year):	April-2023

FACULTY OF SCIENCE

Effective from Academic Batch: 2022-23

Programme: Master of Science (Information Technology)

Semester: IV

Course Code:

Course Title: Comprehensive Viva-Voce

Course Group: CORE COURSES

Course Objectives:

The comprehensive viva – voce examination should be based on the theoretical knowledge, skills and the practices in which students have undergone in the period of four courses of theory of the semester. The viva shall normally cover the subjects taught in all the semesters of M.Sc. IT Programme.

Teaching & Examination Scheme:

Contact hours per week			Course Credits	Examination Marks (Maximum / Passing)				
Lecture	Tutorial	Practical		Theory		J/V/P*		Total
				Internal	External	Internal	External	
--	--	--	1	--	--	--	50/20	50/20

* J: Jury; V: Viva; P: Practical

Course Outcomes (CO):

Sr.	Course Outcome Statements	%weightage
CO-1	It is overall oral examination of all four theory papers as mentioned above.	40
CO-2	Expert shall evaluate and examine the knowledge acquired in the semesters to solve the problems, applications, skills and techniques.	30
CO-3	Students should be able to give lucid explanation of questions asked by the experts of the different topics learnt by themselves during the semester.	30

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