



SACRED HEART COLLEGE (AUTONOMOUS)

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Ready for
Every Good Work

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

MCA

Sem	Code	Subject Name	L	T	TCI	P	IM	SM	TM	CD
I	MCA160T	Enterprise Applications with JAVA	4	1			50	50	100	4
	MCA161T	Scripting Technology	3	1			50	50	100	3
	MCA162T	Optimization Techniques	3	1			50	50	100	4
	MCA163T	Software Testing and Quality Assurance	4		1		50	50	100	4
	MCA164I	Pure Practical: Open Source Database Management System				4	100		100	4
	MCA165P	Practical: JAVA				4	50	50	100	3
	MCA166P	Practical: Scripting Technology				4	50	50	100	3
			14	3	1	12	400	300	700	25
II	MCA260T	Enterprise Applications with .Net	4				50	50	100	4
	MCA261T	Computer Graphics	4	1			50	50	100	4
	MCA262T	Design and Analysis of Algorithms	3	1			50	50	100	3
	MCA263#	Elective I	3				50	50	100	3
	MCA264I	Pure Practical: Android Application Development				4	100		100	3
	MCA265P	Practical: .Net				4	50	50	100	3
	MCA266P	Practical: Computer Graphics				4	50	50	100	3
	VE804	Human Rights in India	2				100		100	1
			16	2	0	12	450	350	800	24
III	MCA360T	Python Programming	4				50	50	100	4
	MCA361T	Blockchain Technology	3	1			50	50	100	4
	MCA362T	Open Source Frameworks	3		1		50	50	100	4
	MCA363#	Elective II	3				50	50	100	3
	MCA364#	Elective III	3				50	50	100	3
	MCA365P	Practical: Python				6	50	50	100	3
	MCA366J	Software Project I				6	50	50	100	4
			16	1	1	12	350	350	700	25

IV	MCA460#	Elective IV	3				50	50	100	3
	MCA461#	Elective V	3				50	50	100	3
	MCA462J	Software Project II				24	50	50	100	10
			6	0	0	24	150	150	300	16
Total Credits										90

SOFTWARE PROJECT

9.1 SOFTWARE PROJECT [III SEMESTER]

- The Project work carried out by the students in the Third, and Fourth semester of MCA is individual work.
- Each student shall select a unique problem domain and develop and enhance the solution.
- Solution for the problem will be obtained by applying the technology they learnt in the previous semester.
- The solution is enhanced and stabilized by applying the technologies that they learn in the current semester.
- The solution for the problem should include DDL, DML, DCL, TCL, triggers, procedure, and function according to the need of their solution space.
- The solutions obtained in the Third, and Fourth will be considered as separate projects for evaluation. The report submitted at the end of each semester is an individual work and it has to be submitted as a PDF document.
- The student shall follow Team Software Process (TSP) model strictly for project development.
- Each student is assigned a faculty member as Project Mentor to monitor the progress of the project work.
- Different Phases of the Project work are Requirements, Analysis, Design, Implementation, Testing and Deployment
- Artifacts to be prepared during the Phases are:
 1. Software Project Initiation Statement
 2. User Requirement Specification (URS)
 3. Software Requirement Specification (SRS)
 4. Software Analysis and Design
 - Architecture Design
 - Database Design (Table Design, ER Diagram, Integrity Design)
 - Class Diagram
 - Use Case Diagram
 5. Test Case Design
- 1. Reviews shall be conducted after every phase of which two shall be mandatory.
- 2. Thirty minutes will be allotted for each team for the review:
 - 20 minutes for Presentation.
 - 10 minutes for Queries.

Evaluation Components

Internal Assessment (Project Mentor)	Total 50 Marks
Lab Preparation	20 Marks
Two Reviews	10 Marks
Artifacts Submission	20 Marks

External Assessment**Total 50 Marks**

Product Demonstration	20 Marks
Project Report	20 Marks
Viva Voice	10 Marks

- The external assessment team comprises of an external examiner and an internal examiner.
- If a student fails in the in-house software project then the student has to perform the set of activities required for it outside the class hours. The student has to appear for the review fixed by the department and should also appear for the semester exam viva voce.

9.2. SOFTWARE PROJECT – FINAL SEMESTER

- The project work can be either carried out in a R&D section of any Industry/University / Institute.
- A Coordinator will be appointed by the Head of the Department to coordinate the Project Work.
- Internal guides from the department will be assigned to the students.
- On joining an institution for the project work, the student shall furnish the details required by the department
- The duration of the project should be at least four months
- Periodically (weekly) the students should be send project Task Report to their internal guide through mail
- Two Reviews will be conducted before the Final Viva-Voce.
- The Project work should be an independent one; if the project is a part of a bigger project, the student's work should have a few independent modules.
- If more than one student is working on parts of the same project (big enough to share) the report of each student should be different and not two copies of the same report.

Evaluation Scheme

○ Internal Assessment	50 Marks
○ First Review	20 Marks
○ Second Review	20 Marks
○ Demo	10 Marks
○ External Assessment	50 Marks
○ Project Report, Product Demonstration	30 Marks
○ Viva voce	20 Marks

- An External Examiner will conduct the Viva Voce along with the respective Internal Guide.
- If a student fails in final semester software project then the student has to redo the project. The student has to appear for the review fixed by the department and should also appear for the semester exam viva voce.