Project Plan

Name of the college: Government College of Arts, Science & Commerce, Sanquelim, Goa		
Name of Faculty: Dr. Dipesh Sakharam Harmalkar	**Subject: Project**	
Paper code: CHP 101	**Program: T.Y.BSc.**	**Division:**
Academic year: 2024 - 2025	**Semester: V**	**Total hours: 30**
Credits: 4		

Course Objectives:

- Basic research: To gain more comprehensive knowledge or understanding of the subject under study, without specific applications in mind.
- Applied research: To gain knowledge or understanding to determine how a specific, recognized need may be met. To discover new scientific knowledge that has specific commercial objectives with respect to products, processes, or services.

Expected Course Outcome:

At the end of the course students will be able:

CO1: to design and carry out scientific experiments as well as accurately record and analyse the results of experiments.

CO2: to do problem solving, critical thinking and analytical reasoning as applied to scientific problems.

CO3: to explore new areas of research in chemistry and allied fields.

CO4: to clearly communicate the results of scientific work in oral, written, and electronic formats.

Student Learning Outcome:

At the end of the course students will be able:

LO1: to design and conduct scientific experiments, accurately record data, and analyze experimental results with precision.

LO2: to develop and apply problem-solving skills, critical thinking, and analytical reasoning to address scientific challenges.

LO3: to explore and identify new research opportunities in chemistry and related fields, demonstrating the ability to innovate and expand existing knowledge.

LO4: to effectively communicate scientific findings through oral presentations, written reports, and electronic media, demonstrating proficiency in conveying information.

Month	Project Scheduled Date	No. of lectures	List of work	Reference
July	06-07-2024	2	Orientation: Explanation about the research project	1. Vogel's Text book of practical Organic Chemistry, 5th edition 2. Research Articles
	13-07-2024	2	Explanation about the research articles and how to do Literature search using different e-sources	
	20-07-2024	2	Topic selection and Literature search	
August	03-08-2024	3	Literature search	
	10-08-2024	3	Experimental work	
	17-08-2024	2	Experimental work	
	24-08-2024	2	Experimental work	
	31-08-2024	2	Experimental work	
September	21-09-2024	2	Experimental work	
	28-09-2024	2	Experimental work	
October	05-10-2024	2	Experimental work	
	12-10-2024	2	Experimental work	
	19-10-2024	2	Experimental work	

* Assessment Rubrics	
Component	**Max Marks**

Internal Examiner	50
External Examiner	50
Semester End Exam (Total)	100