

Semester Plan							
Name of the college: Government College of Arts, Science and Commerce, Sanquelim- Goa							
Name of Faculty: Dr. Sagar Narayan Patil				Subject: Chemistry			
Paper code: CHP-101, Project				Program: TYBSc			
Academic year: 2025 - 2026				Semester: V		Total (02 groups)	
Project Objectives: - To Synthesize & study organic compounds and their activities. • To practise and document the literature review - To monitor reaction mixture using TLC; • To Analyse reaction mixture using spectroscopy - Skills improvement in handling and safe usage of chemicals• Solvent extraction to isolate chemical compounds • purification of organic compounds using column chromatography							
Expected Project Outcome: will be able to , - Synthesize & study organic compounds and their activities. ; practise and document the literature review • monitor reaction mixture using TLC; • Analyse reaction mixture using spectroscopy - Skilfully handle chemicals• perform Solvent extraction to isolate chemical compounds • purify organic compounds using column chromatography • purify organic compounds using							
Student Learning Outcome: students will be able to, • Synthesize & study organic compounds and their activities. • practise and document the literature review; monitor reaction mixture using TLC; • Analyse reaction mixture using spectroscopy - Skilfully handle chemicals• perform Solvent extraction to isolate chemical compounds • purify organic compounds using column chromatography; analyse analytical &/or Spectral data.							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
July	01/07/2025	31/07/2025	15	Optimization, completing	Articles, manuscripts,	Word file, drawing	Literature Review, journal articles, scifinder

				experimental table work; Compilation of Literature review Schemes & calculations of the reactions planned <u>Project I & Project II</u>	Purification, Analysis of chemical compounds ,	schemes	
August	01/08/2025	31/08/2025	15	Compilation of Reaction set up/ experimental part,, discussion <u>Project I & Project II</u> Purification, Analysis of chemical compounds	To learn Compilation of Reaction set up/ experimental part,, discussion	Word file, drawing schemes	Literature Review, journal articles, scifinder
September	01/09/2025	30/09/2025	12	Compilation of spectral data of Optimization & Reaction set up drawing schemes, tables etc. Purification, Analysis of chemical compounds.	To optimize & learn Compilation of spectral data	Word file, drawing schemes	Literature Review, journal articles, scifinder
October	04/10/2024	18/10/2024	06	Compilation of spectral data of Optimization & Reaction set up drawing schemes, tables etc. Purification, Analysis of chemical compounds. & Planning for next semster w.r.t. handling of negative results, Reaction set up <u>Project I & Project II</u>	drawing schemes, tables ; Structures and schemes Planning for next semster w.r.t. handling of negative results	Word file, drawing schemes	Literature Review, journal articles, scifinder

Dr. Sagar Narayan Patil

CHP 101; TYBSc Projects (02 groups)