

Project 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: Dec. 2024 - 2025				Semester: VI		Total (01 group)	
<b>Project Objectives:</b> <ul style="list-style-type: none"><li>To Synthesize &amp; study organic compounds and their activities. • To practise and document the literature review</li><li>To monitor reaction mixture using TLC; • To Analyse reaction mixture using spectroscopy</li><li>Skills improvement in handling and safe usage of chemicals• Solvent extraction to isolate chemical compounds • purification of organic compounds using column chromatography</li></ul>							
<b>Expected Project Outcome: will be able to ,</b> <ul style="list-style-type: none"><li>Synthesize &amp; study organic compounds and their activities. ; practise and document the literature review • monitor reaction mixture using TLC; • Analyse reaction mixture using spectroscopy</li><li>Skilfully handle chemicals• perform Solvent extraction to isolate chemical compounds • purify organic compounds using column chromatography • purify organic compounds.</li></ul>							
<b>Student Learning Outcome: students will be able to,</b> <ul style="list-style-type: none"><li>• Synthesize &amp; study organic compounds and their activities. • practise and document the literature review; monitor reaction mixture using TLC; • Analyse reaction mixture using spectroscopy</li><li>Skilfully handle chemicals• perform Solvent extraction to isolate chemical compounds • purify organic compounds using column chromatography; analyse analytical &amp;/or Spectral data.</li></ul>							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December	09/12/2024	31/12/2024	1	Optimization, completing experimental table work; Compilation of Literature review Schemes & calculations of the	Articles, manuscripts, Purification, Analysis of chemical compounds ,	Word file, drawing schemes	Literature Review, journal articles, scifinder

				<b>reactions planned Project I</b>			
January	03/01/2025	31/01/2025	4	<b>Compilation of Reaction set up/ experimental part,, discussion Project I</b> Purification, Analysis of chemical compounds	To learn <b>Compilation of Reaction set up/ experimental part,, discussion</b>	Word file, drawing schemes	Literature Review, journal articles, scifinder
February	01/02/2025	20/02/2025	3	<b>Compilation of spectral data of Optimization &amp; Reaction set up drawing schemes, tables etc.</b> Purification, Analysis of chemical compounds. <b>&amp; Planning for next semster w.r.t. handling of negative results, Reaction set up Compilation of <u>final draft of project work by 25/02/2025</u></b>	<b>Compilation of spectral data</b>  <b>drawing schemes, tables ; Structures and schemes <u>final draft of project work</u> VIVA</b>	Word file, drawing schemes	Project submission.

Dr. Sagar Narayan Patil

CHP 101; TYBSc Projects (01 group)