Subject Description Form

Subject Code	ABCT4769
Subject Title	PROJECT
Credit Value	3
Level	4
Pre-requisite	All Level 1 to Level 3 core compulsory subjects
Objectives	The project is related to the programme of study covered by the Course. The aims of the project are to promote independent and creative thinking, and to train students to develop the academic and practical skills to define, investigate, analyses and solve a scientific/technical problem. The project may involve a critical assessment, analysis and review of the information collected from the literature and internet on an assigned topic in chemical technology. The project could also include some field work, experimental study, evaluation of chemical processes etc.
Intended Learning Outcomes	Upon completion of the subject, students will be able to: a. conduct literature search and critically assess the information; b. demonstrate the ability in logical and independent thinking; c. identify and solve a scientific/technical problem; d. formulate hypothesis, design and/or conduct studies as well as to analyze and interpret literature data and/or results; e. draw relevant and significant conclusions with justifications f. write essay report and present results orally in an effective, skilful and professional manner.
Subject Synopsis/ Indicative Syllabus	A study of an assigned topic in chemical technology. The study should mainly consist of literature survey. It may also include field work, experimental study, evaluation of chemical processes etc.
Teaching/Learning Methodology	The project may involve a critical assessment, analysis and review of the information collected from the literature and internet on an assigned topic in chemical technology. The project could also include some field work, experimental study, evaluation of chemical processes etc. The topic could be related to fundamental studies on chemical compounds, development of experimental methods/products/equipment, design and evaluation of chemical processes, and feasibility study/survey on the marketing of chemical products. Each student registered in the project will have a project supervisor, who is normally a member of the academic or teaching staff. With guidance from the project supervisor, each student is going to choose and propose his/her own project theme. The supervisor's major role is to provide advice and guidance to the student throughout the development of the project. However, the supervisor shall make sure that the guidance leaves the student ample scope to demonstrate initiative for thinking and working independently and creatively. Each student is required to submit a proposal, a final written report and to deliver an oral

<table>
<tr><td></td><td>presentation.</td></tr>
<tr><td>Assessment Methods in Alignment with Intended Learning Outcomes</td><td>
<table>
<tr><td rowspan="2">Specific assessment methods/tasks</td><td rowspan="2">% weighting</td><td colspan="6">Intended subject learning outcomes to be assessed (Please tick as appropriate)</td></tr>
<tr><td>a</td><td>b</td><td>c</td><td>d</td><td>e</td><td>f</td></tr>
<tr><td>1. Project preparation and efficient planning, organization, and execution of the project</td><td>15</td><td>√</td><td>√</td><td>√</td><td></td><td></td><td></td></tr>
<tr><td>2. Project outcomes: understanding of the topic, logical thinking and analysis, critical review and comments, interpretation and conclusions</td><td>60</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td><td></td></tr>
<tr><td>3. Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)</td><td>15</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td></tr>
<tr><td>4. Oral presentation and response to questions</td><td>10</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td></tr>
<tr><td>Total</td><td>100 %</td><td colspan="6"></td></tr>
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Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

The performance of the student will be assessed during the course of the project. The project is assessed by the approach of work, achievement of proposed objectives, planning and execution of work, quantity and quality of reviewed information, interpretation and analysis of results and presentation of results. The student’s ability to write essay report and present results orally in an effective, skilful and professional manner will be assessed based on the final written report and oral presentation.
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<tr><td>Student Study</td><td>Class contact:</td><td></td></tr>
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Effort Expected	▪ Literature review, project execution and investigation	80 Hrs.
	Other student study effort:	
	▪ Writing proposal and final report	40 Hrs.
	▪ Preparing presentation	10 Hrs.
	Total student study effort	130 Hrs.
Reading List and References	Related books and articles	