## **Subject Description Form**

Subject Code	ABCT4113					
Subject Title	Project					
Credit Value	6					
Level	4					
Pre-requisite	Stage 1, 2 & 3 DSR core subjects					
Objectives	The Project is related to work covered by the Course. The objectives of the Project are to promote independent and creative thought, and to train students to levelop the academic and experimental skills to define, investigate, analyse and olve a scientific/technical problem.  Upon completion of the subject, students will be able to:  a) conduct literature searches and critically assess the material;  b) demonstrate the ability in independent and creative thinking;  c) identify and solve technical problems;  d) formulate hypothesis, design and/or conduct studies as well as to analyze and interpret literature data and/or results;  e) appreciate the importance of team work when working within a team environment during a project;  f) manage time and organize efficiently;  g) communicate effectively, for report writing and presentation.  The Project involves a study on a fundamental or practical topic in applied iology and biotechnology. The study consists of literature survey and an xperimental investigation. The project could be mechanistic studies on iological processes, development of methods/products/equipment, design and					
Intended Learning Outcomes	<ul><li>(e) appreciate the importance of team work when working within a team environment during a project;</li><li>(f) manage time and organize efficiently;</li></ul>					
Subject Synopsis/ Indicative Syllabus	The Project involves a study on a fundamental or practical topic in applied biology and biotechnology. The study consists of literature survey and an experimental investigation. The project could be mechanistic studies on biological processes, development of methods/products/equipment, design and evaluation of bioprocesses, and feasibility study/survey on the marketing of biological products.					
Teaching/Learning Methodology	The project may involve critical assessment, analysis and review of scientific information collected from the literature and internet on an assigned problem in biomedical field. The project may also include some field work or experimental study on selected topics to evaluate/confirm a research hypothesis. There will be a few lectures to brief the students on issues involving the developing appropriate analytical methodologies for specific problems. A problem-based learning approach will be employed. Each student registered in the project will be supervised by a project supervisor, who is normally a member of the academic, teaching or technical staff. With guidance from the project supervisor, each student should conduct the literature review, propose his/her own topic of investigation and execute the experiments. The supervisor's major role is to provide advice and guidance to the student throughout the development of the					

	project. However, the superv student an ample scope to confidence independently and creatively. final written report and to delive the achievement of proposed interpretation and presentation	demonstrate Each studer ver an oral pr d objectives,	initia nt is r esent plar	tive equir ation nning	for the ed to The and	hinkir subr proje	ng ar nit a ect is	nd we prope asses	orking osal, a sed by	
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% Intended subject outcomes to be tick as appropria					assessed (Please			
			a	b	c	d	e	f	g	
	Project preparation and efficient planning, organization and execution of the project	15	X	X		X	х			
	2. Project outcomes: understanding of the topic, critical review and comments, execution of methods; results and data analysis; interpretation and conclusions	60	х	х	х		х			
	3. Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)	15	х	х	х		х	х	х	
	Oral presentation and response to questions	10	Х	X	х		X	х	Х	
	Total	100 %								
Student Study	Class contact:	L	ı						I	
Effort Expected	Literature review, project investigation					90 Hrs.				
	Experimental investigation					90 Hrs.				
	Other student study effort:									
	<ul> <li>Writing proposal and final report</li> </ul>					64 Hrs.				
	<ul><li>Preparing presentation</li></ul>					16 Hrs.				
	Total student study effort					260 Hrs.				
Reading List and References	Related books and articles									