

Subject Description Form

Subject Code	ABCT5113
Subject Title	Research Project
Credit Value	6
Level	5
Pre-requisite	Nil
Co-requisite	Nil
Exclusion	Nil
Objectives	<ol style="list-style-type: none">1. Develop hands-on research skills through laboratory-based experimentation2. Apply theoretical knowledge to practical research problems3. Foster independent research capability and critical thinking4. Enhance scientific writing and presentation skills5. Develop project management and problem-solving skills in a research context
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none">a) Design and execute laboratory experiments independently with appropriate methodologiesb) Analyze and interpret experimental data using appropriate statistical methodsc) Demonstrate proficiency in laboratory safety and standard operating proceduresd) Effectively communicate research findings through written reports and oral presentationse) Critically evaluate research outcomes and propose improvements to experimental design
Subject Synopsis/ Indicative Syllabus	<p>This research project provides students with hands-on experience in conducting laboratory-based research. Students will work under the supervision of faculty members on specific research topics.</p> <p>Research Project Planning:</p> <ul style="list-style-type: none">• Literature review and background research• Experimental design and methodology• Project timeline and milestones <p>Laboratory Skills:</p> <ul style="list-style-type: none">• Laboratory safety protocols• Equipment operation and maintenance• Experimental techniques and procedures <p>Data Collection and Analysis:</p> <ul style="list-style-type: none">• Experimental data recording

	<p>advanced drug development concepts, problem-solving skills, and effective decision-making under realistic scenarios.</p> <p>Students are allowed to use GenAI tools to support their writing of and essays. If GenAI tools are used to support their essay writings, students must declare the use of such tools and how they have been used in the assessments. It should be noted that submitting a work generated by GenAI, in part or in whole, as your own (even in paraphrased form) constitutes an act of academic dishonesty; it is no different from asking another person to write your assignment or claiming others' ideas as yours.</p>
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Student Study Effort Expected	Class contact:	
	▪ Attachment in Laboratory in University	230 Hrs.
	Other student study effort:	
	▪ Self and guided study	20 Hrs.
	▪ Daily log and reflective report	20 Hrs.
	Total student study effort	270 Hrs.
Reading List and References	<p>Khan, F. A. (2014). Biotechnology in medical sciences. CRC Press/Taylor & Francis Group. ISBN : 1482223678 (hardcover)</p>	