

Programme Learning Outcomes

1. University Educational Aims

To enable our students to develop capabilities in:

- (1) the pursuit of academic/professional excellence, critical intellectual enquiry and lifelong learning
- (2) tackling novel situations and ill-defined problems
- (3) critical self-reflection, greater understanding of others, and upholding personal and professional ethics
- (4) intercultural understanding and global citizenship
- (5) communication and collaboration
- (6) leadership and advocacy for the improvement of the human condition

2. Faculty Learning Outcomes – BSc Programme

Students completing the BSc curriculum should be able to:

- (1) explain the basic scientific principles and methods
- (2) comprehend fundamental concepts in mathematics and the physical, chemical, biological and earth sciences, and understand the interconnectivity among the sciences and other disciplines
- (3) apply scientific processes and knowledge in a wide variety of careers and professions
- (4) effectively communicate within and across the science disciplines
- (5) analyze scientific aspects of complex issues, and recognize and appraise moral and ethical issues within the sciences and related disciplines
- (6) integrate acquired discipline-specific knowledge in a science for professional and further academic pursuit in that discipline

3. Programme Learning Outcomes – Minor in Science Entrepreneurship

By the end of this programme, students should be able to:

- (1) apprehend the entrepreneurial process and the principles/models relevant to its different key stages
- (2) gain insights into how a broad range of disciplines contribute to the success of the entrepreneurial process
- (3) evaluate how scientific knowledge can cause impact to the society via entrepreneurship
- (4) develop appropriate action plans for transforming ideas into start-up companies
- (5) effectively collaborate with team members with different expertise and communicate their ideas to a range of audiences during the entrepreneurial process

4. Mapping of Learning Outcomes to University Educational Aims

Programme Learning Outcomes	Faculty Learning Outcomes	University Educational Aims
By the end of this programme, students should be able to:	Students completing the BSc curriculum should be able to:	To enable our students to develop capabilities in:
<p>(1) apprehend the entrepreneurial process and the principles/models relevant to its different key stages</p> <p>(2) gain insights into how a broad range of disciplines contribute to the success of the entrepreneurial process</p> <p>(3) evaluate how scientific knowledge can cause impact to the society via entrepreneurship</p>	<p>(1) explain the basic scientific principles and methods</p> <p>(2) comprehend fundamental concepts in mathematics and the physical, chemical, biological and earth sciences, and understand the interconnectivity among the sciences and other disciplines</p> <p>(3) apply scientific processes and knowledge in a wide variety of careers and professions</p> <p>(5) analyze scientific aspects of complex issues, and recognize and appraise moral and ethical issues within the sciences and related disciplines</p> <p>(6) integrate acquired discipline-specific knowledge in a science for professional and further academic pursuit in that discipline</p>	<p>(1) the pursuit of academic/professional excellence, critical intellectual enquiry and lifelong learning</p>
<p>(2) gain insights into how a broad range of disciplines contribute to the success of the entrepreneurial process</p> <p>(3) evaluate how scientific knowledge can cause impact to the society via entrepreneurship</p> <p>(4) develop appropriate action plans for transforming ideas into start-up companies</p>	<p>(2) comprehend fundamental concepts in mathematics and the physical, chemical, biological and earth sciences, and understand the interconnectivity among the sciences and other disciplines</p> <p>(3) apply scientific processes and knowledge in a wide variety of careers and professions</p> <p>(5) analyze scientific aspects of complex issues, and recognize and appraise moral and ethical issues within the sciences and related disciplines</p>	<p>(2) tackling novel situations and ill-defined problems</p>

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(2) gain insights into how a broad range of disciplines contribute to the success of the entrepreneurial process (3) evaluate how scientific knowledge can cause impact to the society via entrepreneurship	(5) analyze scientific aspects of complex issues, and recognize and appraise moral and ethical issues within the sciences and related disciplines	(3) critical self-reflection, greater understanding of others, and upholding personal and professional ethics
(2) gain insights into how a broad range of disciplines contribute to the success of the entrepreneurial process (3) evaluate how scientific knowledge can cause impact to the society via entrepreneurship (5) effectively collaborate with team members with different expertise and communicate their ideas to a range of audiences during the entrepreneurial process	This will be fulfilled by other components of the University curriculum such as the Common Core Curriculum, Internships, Service Learning, Exchange Studies, etc.	(4) intercultural understanding and global citizenship
(5) effectively collaborate with team members with different expertise and communicate their ideas to a range of audiences during the entrepreneurial process	(4) effectively communicate within and across the science disciplines	(5) communication and collaboration

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<p>(3) evaluate how scientific knowledge can cause impact to the society via entrepreneurship</p> <p>(4) develop appropriate action plans for transforming ideas into start-up companies</p> <p>(5) effectively collaborate with team members with different expertise and communicate their ideas to a range of audiences during the entrepreneurial process</p>	<p>(3) apply scientific processes and knowledge in a wide variety of careers and professions</p>	<p>(6) leadership and advocacy for the improvement of the human condition</p>