

Mapping of BEd and BSc Programme Learning Outcomes (PLOs) with University Educational Aims (UEAs)

University Educational Aims	BSc programme learning outcomes	BEd&BSc integrated programme learning outcomes	BEd-Science programme learning outcomes
<p><i>To enable our students to develop their capabilities in:</i></p> <p><i>1. Pursuit of academic / professional excellence, critical intellectual enquiry and life-long learning</i></p>	<p><i>Students completing the BSc programme should be able to:</i></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>(6) Integrate acquired discipline-specific knowledge in a science for professional and further academic pursuit in that disciplines;</p>	<p><i>Students completing the BEd&BSc programmes should be able to:</i></p> <p>1. Acquire the major concepts and skills in sciences and science education, and respond critically in teaching and continuing professional development;</p>	<p><i>Students completing the BEd programme should be able to:</i></p> <p>1. Identify, appraise and critically evaluate the aims, framework and content of the relevant subject curriculum;</p> <p>2. Plan and implement contextually responsive and innovative teaching to construct effective learning experiences;</p> <p>3. Critically evaluate underlying theories and concepts of learning and whole- person development;</p> <p>6. Reflect critically on personal strengths and weaknesses to develop knowledge, skills and strategies for continuing professional improvement;</p>

<p>2. <i>Tackling novel situations and ill-defined problems</i></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>(5) Analyze scientific aspects of complex issues, and recognize and appraise moral and ethical issues within the sciences and related disciplines;</p>	<p>2. Apply the principles and skills acquired to tackle with complex scientific issues and to construct an effective learning environment for pupils;</p>	<p>2. Plan and implement contextually responsive and innovative teaching to construct effective learning experiences;</p> <p>4. Construct an environment conducive to effective learning;</p>
<p>3. <i>Critical self-reflection, greater understanding of others, and upholding personal and professional ethics</i></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>3. Reflect critically on issues in sciences and science education, and uphold professional ethics as an emerging scholar of the disciplines;</p>	<p>3. Critically evaluate underlying theories and concepts of learning and whole-person development;</p> <p>6. Reflect critically on personal strengths and weaknesses to develop knowledge, skills and strategies for continuing professional improvement;</p>

<p>4. <i>Intercultural understanding and global citizenship</i></p>	<p>(4) Effectively communicate within and across the science disciplines;</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>4. Create an environment conducive to learning and teaching of sciences for the well-being of mankind;</p>	<p>4. Construct an environment conducive to effective learning;</p> <p>5. Communicate effectively with stakeholders to promote the enhancement of teaching and learning and respond to changes in education;</p>
<p>5. <i>Communication and collaboration</i></p>	<p>(4) Effectively communicate within and across the science disciplines;</p>	<p>5. Communicate and collaborate effectively, within and across, science and science education disciplines;</p>	<p>4. Construct an environment conducive to effective learning;</p> <p>5. Communicate effectively with stakeholders to promote the enhancement of teaching and learning and respond to changes in education;</p> <p>6. Reflect critically on personal strengths and weaknesses to develop knowledge, skills and strategies for continuing professional improvement;</p>

<p>6. <i>Leadership and advocacy for the improvement of the human condition</i></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>(5) Analyze scientific aspects of complex issues, and recognize and appraise moral and ethical issues within the sciences and related disciplines.</p>	<p>6. Engage with different stakeholders in the disciplines, and innovate in scientific research and teaching of sciences.</p>	<p>5. Communicate effectively with stakeholders to promote the enhancement of teaching and learning and respond to changes in education.</p>
---	---	--	--

15 March 2012; revised 21 May 2015