| AQF LEVEL | AQF LEVEL 8 CRITERIA – BACHELOR HONOURS DEGREE | PROGRAM LEARNING OUTCOMES |
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| PURPOSE | The Bachelor Honours Degree qualifies individuals who apply a body of knowledge in a specific context to undertake professional work and as a pathway for research and further learning | |
| KNOWLEDGE | Graduates of a Bachelor Honours Degree will have coherent and advanced knowledge of the underlying principles and concepts in one or more disciplines and knowledge of research principles and methods | Graduates of a Bachelor of Advanced Computer Science (Honours) will have a broad and coherent body of knowledge in the areas of computer science and computer programming. They will have a deep understanding in the underlying principles and concepts in computer science. They will be able to apply their knowledge to solve real-world and research problems with equipped professional standards and advanced skills. |

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| **SKILLS** | Graduates of a Bachelor Honours Degree will have:<br>• cognitive skills to review, analyse, consolidate and synthesise knowledge to identify and provide solutions to complex problems with intellectual independence<br>• cognitive and technical skills to demonstrate a broad understanding of a body of knowledge and theoretical concepts with advanced understanding in some areas<br>• cognitive skills to exercise critical thinking and judgement in developing new understanding<br>• technical skills to design and use research in a project<br>• communication skills to present a clear and coherent exposition of knowledge and ideas to a variety of audiences | Graduates of a Bachelor of Advanced Computer Science (Honours) will have:<br>• the cognitive skills to review critically, analyse, consolidate and synthesise knowledge in the area of computer science<br>• Cognitive and technical skills to demonstrate a broad understanding of knowledge with depth in the areas of software and application development, computer algorithms, data science and artificial intelligence<br>• cognitive skills to identify appropriate research questions<br>• cognitive, technical and creative skills to explore solutions by applying a variety of research methodologies<br>• cognitive and creative skills to exercise critical thinking and judgment in identifying and solving computational problems with intellectual independence<br>• skills to comprehend written and verbal communication and present a clear, coherent and independent exposition of software designs, specifications, algorithms, technologies and ideas to a range of audiences both writing and orally. |

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| **APPLICATION OF KNOWLEDGE & SKILLS** | Graduates of a Bachelor Honours Degree will demonstrate the application of knowledge and skills:<br>• with initiative and judgement in professional practice and/or scholarship<br>• to adapt knowledge and skills in diverse contexts<br>• with responsibility and accountability for own learning and practice and in collaboration with others within broad parameters<br>• to plan and execute project work and/or a piece of research and scholarship with some independence | Graduates of a Bachelor of Advanced Computer Science (Honours) will be able to:<br>• demonstrate the application of knowledge and skills with initiative and judgment in planning, problem solving and decision making in professional practice including analysis, design, implementation and maintenance of software technologies both individually and in teams in the development of software products and computing technologies<br>• adapt knowledge and skills to solving new computation problems, or creating new software technologies across a wide array of application areas, by using appropriate abstraction and system modelling, and design methodologies<br>• apply advanced skills and knowledge to a broad range of research areas within the discipline.<br>• demonstrate the responsibility and accountability for own learning and professional practice and in collaboration with others in response to rapidly changing technology as part of lifelong learning. |