

BSA: Bachelor of Engineering (Software Engineering)

Version 1

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Program Code:	BSA
Credential Awarded:	Bachelor of Engineering (Software Engineering)
Campus:	Newnham
Duration:	4 years (8 academic semesters)
Starts In:	September, and January

Program Map and Curriculum

ACADEMIC YEAR 2022-23



Program Learning Outcomes

As a graduate, you will be prepared to reliably demonstrate the ability to:

1. Apply mathematics, natural sciences, and engineering fundamentals to solve engineering problems.
2. Create software engineering solutions that satisfy technical and business requirements.
3. Design an optimal solution using artificial intelligence, data mining, and machine learning tools for complex and open-ended problems.
4. Employ interpersonal, team building, and leadership skills to solve problems independently and in diverse teams.
5. Communicate complex engineering problems and solutions to fellow software engineers and designers as well as non-technical audiences.
6. Act ethically and responsibly with public welfare and environmental protection as a guiding professional practice.
7. Plan and manage the scope, cost, timing, and quality of the project for success as defined by the project stakeholders.
8. Utilize investigative practices and self-awareness techniques to identify and pursue

lifelong learning opportunities within their field of study and more broadly.

[Further Information About This Program from Seneca's Website](#)

tags : bsa, degree, sdds