

ISCG7435 Special Topic 1:

**Software Architecture & Systems Integration**

<b>Course number:</b>	ISCG7435	<b>Level:</b>	7	<b>Credits:</b>	15
<b>Main programme:</b>	Bachelor of Computing Systems				
<b>Pre-requisites:</b>	ISCG6414				
<b>Co-requisites:</b>	Department consent				
<b>Anti-requisites:</b>	N/A				
<b>Compulsory/elective:</b>	Elective				

**Learning time:**

(Lecturer) Contact hours	Non-contact hours	Total hours
39	111	150

**Level descriptors:** The course involves knowledge and skills that enable a learner to provide design, evaluate, and critically examine software architectures. Students will develop specialised knowledge in the software architecture discipline through a complex collaborative software development project. Students will be able to recognise the developing trends in the discipline, anticipate changes, predict future trends, and decide best design choices.

**Course aim:** Students will be able to develop complex software applications for real-world scenarios, following state-of-the art software architectural practices. The course has a strong technical focus and will prepare students for collaborative software development, following the practices of large-scale real-world software projects.

**Learning outcomes:**

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1.	Provide clear and concise view of the issues, techniques and methods at the heart of sound architectural practices.
2.	Evaluate and critically examine the general purpose component and middleware technologies that support many of the fundamental architectural patterns used in applications.
3.	Anticipate changes in technologies and practices, and their affect on the next generation of information systems.
4.	Work in project teams to develop software to meet changing requirements for a complex application and recognise the importance of collaborative software development practices.