

2.1.6.6 Bachelor of Computing (Information Systems)

Objective

The 4-year IS programme will provide a multi-disciplinary education on information systems, combining the disciplines of computer science and management. The programme focuses on the application and management of information technology to enhance the effectiveness of organisations and businesses. It also analyses the impact and trends of technology and the relevant implications for the economy and society.

IS graduates will be able to develop and manage business information systems, with an excellent understanding of the required technology and the organisational environment.

IS graduates will meet the market demand for MIS specialists, management consultants, and technology analysts. Possible employers include end-users, system integrators, consultancies, market research firms, regulatory agencies and investment advisors.

University Scholars Programme (Information Systems)

Students in the University Scholars Programme who choose the Bachelor of Computing (Information Systems) major will take the Information Systems programme, but with the following variations:

1. They will not be required to take the following:
 - (a) The University Level Requirements (28 MCs)
 - (b) Principles of Economics (EC1301) (4 MCs)(These are replaced by appropriate First-Tier Scholars Modules.)
2. They will be required to take 2 (instead of 3) modules from the 3000-level module group (CS3250, CS3251, CS3254, CS3255, CS3260, CS3264). [Namely, 4 MCs fewer]
3. They will be required to take 3 (instead of 4) modules from the 4000-level module group (CS4245, CS4250, CS4251, CS4252, CS4253, CS4254, CS4265). [Namely, 4 MCs fewer]
4. Eight MCs (out of 48 MCs for USP) will count towards “Unrestricted Electives” listed in Section 2.1.5.

Table 7: Summary of degree requirement for B.Comp. (Information Systems)

Modules	Modular Credits	Subtotals
UNIVERSITY LEVEL REQUIREMENTS		28
PROGRAMME REQUIREMENTS		110
<i>Common Essentials</i>		
CS1101/S Programming Methodology	5	
CS1102 Data Structures and Algorithms	5	
CS1104 Computer Organisation	4	
CS1105 Computing and Society	4	
CS2102 Database Systems	4	
CS2103 Software Engineering	4	
CS2105 Computer Networks I	4	
<i>Major Requirements</i>		
EC1301 Principles of Economics	4	
One accounting module (e.g. FNA1002)	4	
ST2334 Probability and Statistics	4	
CS1231 Discrete Structures	4	
CS2106 Operating Systems	4	
CS2301 Business and Technical Communication	4	
CS2250 Fundamentals of Information Systems	4	
CS3253 Management of IS	4	
CS3214 Information Systems Development Project	8	
CS3250 Management Support Systems CS3251 Technology Strategy and Management CS3254 Information Security Management CS3255 Information Organisation CS3260 Telecommunications for Business CS3264 Enterprise Resource Planning Systems	12 (Choose 3 modules)	
CS4245 Multimedia E-Learning Environment CS4250 IS Research Methodologies CS4251 Strategic IS Planning CS4252 Control, Audit and Security of IS CS4253 Information Systems Consulting CS4254 IS Project Management CS4265 Advanced Topics in E-Commerce	16 (Choose 4 modules)	
CS4101 Honours Project	12	
CS4102 Technical and Management Training	0	
UNRESTRICTED ELECTIVES		22
Grand Total		160