

Mobile Application & Technology

Introduction

Mobile technology is a growing trend in technology that provides infrastructure and technology for all businesses to ride on. With mobile technology, the future is borderless. Mobile Application & Technology (MAT) program is designed to provide students with the knowledge and skills in mobile computing, communications, and entrepreneurship. The aims of Mobile Application & Technology program to provide students with an understanding of mobile/wireless technologies, wearable technologies, embedded system and internet of things (IoT), how these technologies are utilised and integrated to meet specific business needs. The course builds a solid foundation of software development skills and introduces the particular skills needed for developing mobile/wireless applications. Students will also gain the necessary understanding of current technologies and architectures that provide the network and communications infrastructure for mobile-enabled enterprise computer systems, planning, management and how to build a mobile enterprise. Students will also develop skills in the design of modern distributed software systems, using appropriate technologies, architectures, and techniques, and in the advanced network, technologies supporting the upper layers, together with their planning, management, and security. The structure of the course allows students to gain valuable practical experience in building software systems, and also apply knowledge in mobile creative design.

The MAT program was established in September 2011, under BINUS UNIVERSITY. It became one of the programs under the coordination of the School of Computer Science.

Vision

A program of choice in Mobile Application and Technology, which specializes in developing creative mobile software solutions for businesses, is recognized internationally, champions innovation and delivers graduates with international qualifications.

Mission

The mission of Mobile Application and Technology Program is to contribute to the global community through the provision of world-class education by:

1. Educating student in the fundamental skills, knowledge, and practice of recent mobile technologies and architectures, wireless technologies, mobile software development, and game design;
2. Conducting research and providing mobile application and technology professional services with an emphasis on the application of knowledge for society's development;
3. Sharing the application of knowledge related to mobile application & technology with a view to Indonesians' and the international community quality of life;
4. Influencing students & lecturers to be creative, value-adding and competitive at an international level in mobile application & technology, by creating a suitable environment;
5. Preparing students as smart and skilled mobile application & technology professionals, leaders, and entrepreneurs in the global market and/or to continue in related disciplines.

Program Objective

The objectives of the program are:

1. To provide students with a solid foundation in computer science knowledge, and especially mathematical, algorithm principles, that are needed for mobile software solutions;

2. To provide students with skills to apply design and development principles in the construction of recent mobile technologies, such as architectures, wireless technologies, mobile software development, and game design;
3. To prepare students with abilities to keep up-to-date with the latest Mobile Application and Technology trends;
4. To prepare students with abilities in problem solving, good communication skills and ethics to be able to work as an individual or in a team in an IT environment.

Student Outcomes

After completing the study, graduates are:

1. Able to create software application design with the implementation of database system principal design to solve structured and semi-structured data;
2. Able to design software application solution based on problem analysis which can be solved with structured approach in informatics area;
3. Able to assess technology trend in informatics area to deliver alternative solution of software development;
4. Able to design mobile solution development;
5. Able to study the trend of mobile technology in the future;
6. Able to create solution by applying technology and current mobile application;
7. Able to apply interdisciplinary knowledge and skills in developing alternative solutions for problem-solving.

Prospective Career of the Graduates

After finishing the Program, the graduate of Mobile Application & Technology Program could follow a career as:

1. Mobile Software Engineer/Developer
2. Mobile Games Designer & Mobile Games Developer
3. Mobile Business Application Developer
4. Mobile User Experience Designers
5. Mobile User Interface Architect
6. Information Analyst in Decentralized Businesses
7. IT Support/Consultant
8. Lecturer/Trainer

Curriculum

The present curriculum used in the Mobile Application & Technology Program has been developed in line with the National Curriculum. Also, the local content has been developed in line with the Computer Science Curriculum standard of ACM (Association for Computing Machinery), several local and foreign universities, mobile technologies and market trends, so that the graduates of the Mobile Application & Technology Program are expected to be able to face competition at both a national and international level.

Generally, the subjects of the curriculum 2019 are divided into these following groups of subjects:

Mathematics Group (Science)

The objective of this group is to provide an understanding of mathematics as one of the principal foundations of computer science. Another goal is to give an understanding of scientific methodology (data collection, hypothesis, research, analysis) in problem-solving.

Character Building Group (Professional Practices)

The objective of this group is to develop the personal strengths of the student and to provide him or her with a professional character, professionalism in their field, management skills, oral and written communication skills, understanding of business ethics, ability to work as a team, and to develop a “Binusian” Character.

Core Group

The objective of this group is to provide grounding in the Mobile Application Technology Program through practice as well as an applied theory which is required by business both now and in the future. The subjects that are included in this group are programming, algorithm design and analysis, software engineering, databases, computer graphs, multimedia, computer and human interaction, operation system, mobile device architecture, and mobile network.

The Field of MAT Subject

The objective of builds the field of the subject in Mobile Application Technology is to give the students a solid foundation of software development skills and to introduce the specific skills needed for developing mobile/wireless applications. Students will also gain the necessary understanding of current technologies and architectures such as wearable technologies, embedded system and internet of things (IoT) that provide the network and communications infrastructure for mobile-enabled enterprise computer systems, also to give students the opportunity to obtain a deep understanding of a range of disciplines in Mobile Application Technology.

The students are expected to develop their skills and master the techniques which will allow them to research both their thesis and to continue their studies.

The field of MAT subjects:

1. Mobile Programming: to explore the various methodologies and mobile software engineering equipment.
2. Mobile Entrepreneurship: to explore the various techniques of planning, management skills, and building a mobile application & technology company.
3. Current Mobile Technology: to explore several of the trend technology in mobile application & device also research on the internet of thing, embedded system technology, virtual reality and augmented reality.

All students of MAT Program must follow these three fields to become Mobile Application Technology graduates. The objective of these three fields is to provide the students with the knowledge and skills required by business & industry and who wants to develop their own mobile application company.

Course Structure

Sem	Code	Course Name	SCU	Total	
1	CHAR6013	Character Building: <i>Pancasila</i>	2	20	
	MATH6025	Discrete Mathematics	4		
	MATH6030	Linear Algebra	2		
	COMP6047	Algorithm and Programming	4/2		
	MOBI6056	Mobile Creative Design ^{*&**}	2		
	LANG6027	Indonesian	2		
	English University Courses I				
	ENGL6128	English in Focus	2		
	ENGL6130	English for Business Presentation	2		
2	CHAR6014	Character Building: <i>Kewarganegaraan</i>	2	20	
	MATH6031	Calculus	4		
	COMP6048	Data Structures*	4/2		
	STAT6171	Basic Statistics	2		

Sem	Code	Course Name	SCU	Total	
	MOBI6068	Web Design*&**	2		
	ENTR6509	Entrepreneurship: Ideation	2		
	English University Courses II				
	ENGL6129	English Savvy	2		
	ENGL6131	English for Written Business Communication	2		
3	CHAR6015001	Character Building: <i>Agama</i>	2	21	
	COMP6049001	Algorithm Design and Analysis*	4		
	COMP6056001	Program Design Methods	4		
	COMP6643001	Artificial Intelligence*&***	5		
	ISYS6279001	Database Systems	4/2		
4	CPEN6108001	Computer Networks	2/2	23	
	MOBI6006001	Mobile Community Solution*&**	2/2		
	MOBI6061001	Embedded System and Internet of Things*&**	2		
	COMP6644001	Software Engineering*&***	5		
	COMP6062001	Compilation Techniques	4		
	COMP6231001	Human and Computer Interaction	2/2		
5	COMP6696001	Research Methodology in Computer Science	2	16	
	COMP6697001	Operating System	2		
	ENTR6511001	Entrepreneurship: Market Validation	2		
	MOBI6009001	Mobile Multimedia Solution**	2/2		
	MOBI6057001	Wearable Technology*&**	2		
	Free Electives				4
6	Enrichment Program I		20	20	
7	Enrichment Program II		20	20	
8	MOBI6064001	Pre-Thesis	2	6	
	MOBI6065001	Thesis	4		
	MOBI6024001	Thesis	6		
TOTAL CREDITS 146 Credits					

*) This course is delivered in English

**) Global Learning System Course

***) Entrepreneurship Embedded

-) For Free Electives, students are required to choose from the list of Free Electives in Appendix.

English University Courses:

-) For 1st Semester: English University Courses I, students with Binus University English Proficiency Test score less than 500 will take English in Focus, and student with test score greater than or equal to 500 will take English for Business Presentation.
-) For 2nd Semester: English University Courses II, students with Binus University English Proficiency Test score less than 500 will take English Savvy, and students with test score greater than or equal to 500 will take English for Written Business Communication.
-) Students must pass English Savvy with a minimum Grade of C.

Pre-thesis (2 SCU) & Thesis (4 SCU) can be taken in the 6th and/or 7th semester by the students who meet the requirements from the program.

Appendix: Free Electives 5th Semester)

No	Course Owner Departement	Course Code	Course Name	SCU	Semester
1	Business Creation	ENTR6494005	Managing Growing Business	2	5
2	Business Management	MGMT6362005	Global Supply Chain Services	2	5
3	Business Management	MGMT6365005	Current Issue in Service Business and Technology	2	5
4	Business Management	MGMT6400005	Supply Chain Strategy	2	5
5	Global Business Marketing	MKTG6237005	Global Strategic Marketing: Asia Pacific Perspective	4	5
6	International Business Management	BUSS7009005	Export-Import Cost Management	2	5
7	International Business Management	MGMT6370005	E-Business for International Business	2	5
8	International Business Management	MGMT7169005	Global Supply Chain Management	2	5
9	Management	BUSS6069005	Business Simulation	2	5
10	Management	BUSS6163005	Organization Development Strategy	2	5
11	Management	BUSS6194005	Business Negotiation Strategy	2	5
12	Management	ISYS8175005	E-Business Strategy and Implementation	4	5
13	Management	MGMT6029005	Knowledge Management	2	5
14	Management	MGMT6063005	Strategic Management	2	5
15	Management	MGMT6145005	Compensation and Performance Management	2	5
16	Management	MGMT6297005	Operations Management	4	5
17	Management	MGMT6341005	Strategic Management	4	5
18	Management	MGMT6412005	Customer Relationship Management	2	5
19	Accounting Bekasi	ACCT6389020	Big Data Analytics in Accounting & Finance	2	5
20	Marketing Communication	COMM6514019	Editing for Creative Program	2/2	5
21	Marketing Communication	COMM6523019	Corporate Event Management	2/2	5
22	Marketing Communication	COMM6538019	Media Promotion & Marketing in Creative Broadcasting	2	5
23	Marketing Communication	COMM6539019	Media Convergence in Creative Broadcasting	2	5
24	Marketing Communication	COMM6541019	Digital Corporate Communication	2/2	5
25	Marketing Communication	COMM6542019	Event Management for Brand	2/2	5
26	Marketing Communication	COMM6543019	Digital Brand Communicaton	2/2	5
27	Tourism	TRSM6141022	Tourism Destination and Planning Management	4	5
28	Tourism	TRSM6160022	Tourism Transportation	2	5
29	Tourism	TRSM6208022	Tourism Innovation and Product Development	4	5
30	Tourism	TRSM6196022	Tourism Community Empowerment	2	5
31	Architecture	ARCH6047014	Behavior in Architecture	2	5
32	Architecture	ARCH6061014	Sustainable Architecture	2	5
33	Architecture	ARCH6128014	Multimedia in Design Presentation	4	5

No	Course Owner Departement	Course Code	Course Name	SCU	Semester
34	Architecture	ARCH6129014	Urban Housing	4	5
35	Architecture	ARCH6130014	Architecture & Social Culture	4	5
36	Architecture	ARCH6132014	Leadership Organization Behavior	4	5
37	Civil Engineering	CIVL6007013	Harbour Engineering	2	5
38	Civil Engineering	CIVL6009013	Urban Drainage	2	5
39	Civil Engineering	CIVL6015013	Geosyntetics Application in Civil Engineering	2	5
40	Civil Engineering	CIVL6025013	Hydrology	2	5
41	Civil Engineering	CIVL6035013	Airport Engineering	2	5
42	Civil Engineering	CIVL6037013	Railway Engineering	2	5
43	Civil Engineering	CIVL6080013	Construction Methods & Heavy Equipment	2	5
44	Civil Engineering	CIVL8038013	Soil Improvement Method	2	5
45	Civil Engineering	CIVL8056013	Bridge Engineering	2	5
46	Civil Engineering	COMP6046013	Computer Applications in Construction Management	2	5
47	Computer Engineering	CPEN6098010	Computer Networks	2/2	5
48	Computer Engineering	CPEN6126010	Cross Platform Application Development	4	5
49	Computer Engineering	CPEN6225010	Telco Network & Switching System	2	5
50	Computer Engineering	CPEN6232010	Cloud Technology Practice	2	5
51	Food Tech	FOOD6062015	Food Quality Assurance System	2/1	5
52	Food Tech	FOOD6063015	Food Safety & Sanitation	2/1	5
53	Industrial Engineering	ISYE6067011	Global Supply Chain	2	5
54	Industrial Engineering	ISYE6115011	Transportation Modeling	2	5
55	Industrial Engineering	ISYE6130011	Project Management	2	5
56	Business Law	LAWS6052028	Bankruptcy Law	2	5
57	Business Law	LAWS6056028	Legal Research Methods	2	5
58	Business Law	LAWS6167028	Legal Philosophy & Professional Ethics	2	5
59	Business Law	LAWS6172028	Environmental and Natural Resources Law	2	5
60	Business Law	LAWS6174028	Contract & Legislative Drafting	2	5
61	Business Law	LAWS6176028	Tax Law	2	5
62	Chinese Literature	CHIN6157026	Chinese Business for Etiquette (Beginner)	4	5
63	Chinese Literature	CHIN6158026	Chinese Business in Daily Communication	4	5
64	Chinese Literature	CHIN6159026	Chinese Character Writing	2	5
65	English Literature	ENGL6158024	Writing for Children and Young Adults	2	5
66	English Literature	ENGL6244024	Social Media Broadcasting	4	5
67	International Relations	INTR6151029	Regional Integration in Europe	2	5
68	International Relations	INTR6152029	Regional Integration in America	2	5
69	International Relations	INTR6153029	Regional Integration in East Asia	2	5

No	Course Owner Departement	Course Code	Course Name	SCU	Semester
70	International Relations	INTR6154029	Regional Integration in Africa and Middle East	2	5
71	International Relations	INTR6161029	Political Economy of Global Media	2	5
72	International Relations	INTR6162029	Multiculturalism and Digital Society	2	5
73	International Relations	INTR6167029	International Political Economy of Multinational Corporations	2	5
74	International Relations	INTR6169029	International Migration: Governance and Rights	2	5
75	International Relations	INTR8049029	Global Economic Architecture	2	5
76	Japanese Literature	JAPN6116025	Japanese Corporate Culture and Management (Nihon No Kigyuu Bunka to Manejimento)	2	5
77	Primary Teacher Education	EDUC6032030	Art & Craft	2	5
78	Psychology	PSYC6127027	Indigenous Psychology	4	5
79	Cyber Security	COMP6646001	Computer Forensic	2	5
80	Mobile Application & Technology	MOBI6057001	Wearable Technology	2	5
81	Mobile Application & Technology	MOBI6059001	Mobile Programming	2	5
82	Statistics	RSCH6483049	Research Methodology in Data Science	2	5
83	Statistics	STAT6158049	Data Management and Organization	2	5
84	Computer Science	COMP6176001	Human and Computer Interaction	2/2	5
85	Computer Science	COMP6578001	Information Visualization	2	5
86	Computer Science	COMP6586001	Embedded Systems	2	5
87	Computer Science	COMP6144001	Web Programming	2/1	5
88	Computer Science	COMP8129001	User Experience	2/2	5
89	Computer Science	ISYS6197001	Business Application Development	2/2	5
90	Animation	DSGN6689007	Concept Art & Production Design	2	5
91	Animation	DSGN6690007	Animation Storytelling	2	5
92	Film	FILM6119009	Audiences & Fan Culture	4	5
93	Business Information Technology	ISYS6579003	Knowledge-Based AI: Cognitive Systems	4	5
94	Information Systems	ISYS6199003	Data & Text Mining	4	5
95	Information Systems	ISYS6202003	Social Informatics	4	5
96	Information Systems	ISYS6289003	Collaborative Computing	4	5
97	Information Systems	ISYS6402003	Business Analytics	2/2	5
98	Information Systems	ISYS8066003	Business Process Management	4	5
99	Information Systems Accounting & Auditing	ISYS6608003	IT Service & Risk Management	2	5
100	Information Systems Accounting & Auditing	ISYS6050003	Information System Audit Fundamental	4	5

Enrichment Program I (6th Semester) & Enrichment Program II (7th Semester):

-) Student will take one of enrichment program tracks (off campus). See enrichment appendix for the tracks detail.

Enrichment Track Scheme

Track	Semester 6							Semester 7						
	IN	RS	EN	CD	SA	IS	etc	IN	RS	EN	CD	SA	FS	etc
1	v							v						
2		v							v					
3			v							v				
4				v				v						
5				v							v			
6				v								v		
7					v			v						
8					v						v			
9					v							v		
10							v	v						
11							v				v			
12							v					v		
13	v												v	
14		v											v	
15						v		v						
16						v					v			
17						v						v		

Note:

IN	: Certified Internship	SA	: Certified Study Abroad
RS	: Certified Research	IS	: Certified Specific Independent Study
EN	: Certified Entrepreneurship	FS	: Further Study
CD	: Certified Community Development	etc	: Study Program Special Purposes

Description:

Student will take one of enrichment program tracks

Students who failed in Enrichment Program I can retake with the same track or change into another track. As for Enrichment Program II, student who failed with Internship, Research, Community Development, and Study Abroad track on Enrichment Program II, can retake with the same track or change into another track. However students who take **Entrepreneurship** track on Enrichment Program II, should **retake with another track**.

Certified Internship Track

Code	Course Name	SCU	Total
Enrichment Program I			
MOBI6048001	Industrial Experience	8	20
MOBI6066001	Mobile Application & Technology Practice in Industrial Experience	8	
MOBI6038001	EES in Mobile Industry	4	
Enrichment Program II			
MOBI6051001	Professional Experience	8	20
MOBI6067001	Mobile Application & Technology Practice in Professional Experience	8	
MOBI6053001	Professional Development in Mobile Industry	4	

Certified Entrepreneurship Track

Code	Course Name	SCU	Total
Enrichment Program I			
ENTR6645001	New Venture Initiation in Mobile Application	8	20
ENTR6646001	Product Development Process in Mobile Application Project	8	
ENTR6541001	EES in New Mobile Application and Technology Business	4	
Enrichment Program II			
ENTR6647001	Product Launching in Mobile Application	8	20
ENTR6648001	Business Development in Mobile Application Project	8	
ENTR6369001	EES in Mobile Application and Technology Business Experience	4	

Certified Research Track

Code	Course Name	SCU	Total
Enrichment Program I			
RSCH6245001	Research Experience I	8	20
RSCH6526001	Scientific Writing in Mobile Apps and Technology Research Area I	8	
RSCH6459001	Global EES I (Team Work, Communication, Problem Solving & Decision Making)	4	
Enrichment Program II			
RSCH6260001	Research Experience II	8	20
RSCH6527001	Scientific Writing in Mobile Apps and Technology Research Area II	8	
RSCH6268001	Global EES II (Self-Management, Planning & Organizing, Initiative & Enterprise)	4	

Certified Community Development Track

Code	Course Name	SCU	Total
Enrichment Program I			
CMDV6161001	Community Outreach Project Implementation	8	20
CMDV6308001	Community Outreach Project Design in Mobile Applications Project	8	
CMDV6258001	Employability and Entrepreneurial Skills in Mobile Application and Technology Community	4	
Enrichment Program II			
CMDV6186001	Community Development Project Implementation	8	20
CMDV6309001	Community Development Project Design in Mobile Application Project	8	
CMDV6195001	Employability and Entrepreneurial Skills in Mobile Application and Technology Community Development	4	

Certified Study Abroad Track

Code	Course Name	SCU	Total
Elective courses list for study abroad*			
Enrichment Program I			
GLOB6005001	Elective Course for Study Abroad 1	4	20

Code	Course Name	SCU	Total
GLOB6006001	Elective Course for Study Abroad 2	4	20
GLOB6007001	Elective Course for Study Abroad 3	4	
GLOB6008001	Elective Course for Study Abroad 4	4	
GLOB6009001	Elective Course for Study Abroad 5	2	
GLOB6010001	Elective Course for Study Abroad 6	2	
GLOB6011001	Elective Course for Study Abroad 7	2	
GLOB6012001	Elective Course for Study Abroad 8	2	
GLOB6013001	Elective Course for Study Abroad 9	2	
GLOB6014001	Elective Course for Study Abroad 10	2	
GLOB6015001	Elective Course for Study Abroad 11	2	
GLOB6016001	Elective Course for Study Abroad 12	2	
GLOB6251001	Elective Course for Study Abroad 29	4	
Enrichment Program II			
GLOB6017001	Elective Course for Study Abroad 13	4	
GLOB6018001	Elective Course for Study Abroad 14	4	
GLOB6019001	Elective Course for Study Abroad 15	4	
GLOB6020001	Elective Course for Study Abroad 16	4	
GLOB6021001	Elective Course for Study Abroad 17	2	
GLOB6022001	Elective Course for Study Abroad 18	2	
GLOB6023001	Elective Course for Study Abroad 19	2	
GLOB6024001	Elective Course for Study Abroad 20	2	
GLOB6025001	Elective Course for Study Abroad 21	2	
GLOB6026001	Elective Course for Study Abroad 22	2	
GLOB6027001	Elective Course for Study Abroad 23	2	
GLOB6028001	Elective Course for Study Abroad 24	2	
GLOB6253001	Elective Course for Study Abroad 31	4	

*) Transferred courses will be transferred based on credit transfer policies on study program with total of 20 credit.

Certified Specific Independent Study

Code	Course Name	SCU	Total
Elective courses list for certified specific independent study*			20
Enrichment Program I			
MICR6033001	Course Certification I	3	
MICR6034001	Technical Skill Enrichment I	4	
MICR6035001	Industrial Project I	9	
MICR6036001	Soft Skill Enrichment I	4	
MICR6001001	Elective Course for Specific Independent Study 1	8	
MICR6002001	Elective Course for Specific Independent Study 2	8	
MICR6003001	Elective Course for Specific Independent Study 3	6	
MICR6004001	Elective Course for Specific Independent Study 4	6	
MICR6005001	Elective Course for Specific Independent Study 5	6	
MICR6006001	Elective Course for Specific Independent Study 6	5	

Code	Course Name	SCU	Total
MICR6007001	Elective Course for Specific Independent Study 7	5	
MICR6008001	Elective Course for Specific Independent Study 8	5	
MICR6009001	Elective Course for Specific Independent Study 9	5	
MICR6010001	Elective Course for Specific Independent Study 10	4	
MICR6011001	Elective Course for Specific Independent Study 11	4	
MICR6012001	Elective Course for Specific Independent Study 12	4	
MICR6013001	Elective Course for Specific Independent Study 13	4	
MICR6014001	Elective Course for Specific Independent Study 14	4	
MICR6015001	Elective Course for Specific Independent Study 15	3	
MICR6016001	Elective Course for Specific Independent Study 16	3	
MICR6017001	Elective Course for Specific Independent Study 17	3	
MICR6018001	Elective Course for Specific Independent Study 18	3	
MICR6019001	Elective Course for Specific Independent Study 19	3	
MICR6020001	Elective Course for Specific Independent Study 20	3	
MICR6021001	Elective Course for Specific Independent Study 21	2	
MICR6022001	Elective Course for Specific Independent Study 22	2	
MICR6023001	Elective Course for Specific Independent Study 23	2	
MICR6024001	Elective Course for Specific Independent Study 24	2	
MICR6025001	Elective Course for Specific Independent Study 25	2	
MICR6026001	Elective Course for Specific Independent Study 26	2	
MICR6027001	Elective Course for Specific Independent Study 27	2	
MICR6028001	Elective Course for Specific Independent Study 28	2	
MICR6029001	Elective Course for Specific Independent Study 29	1	
MICR6030001	Elective Course for Specific Independent Study 30	1	
MICR6031001	Elective Course for Specific Independent Study 31	1	
MICR6032001	Elective Course for Specific Independent Study 32	1	

*) For students who take BINUS certified specific independent study courses, they should take the first 4 courses on the list above (20 credits). Meanwhile, electives courses 1 to 32 are transferred courses for students who take certified specific independent study outside BINUS University. Transferred courses will be transferred based on credit transfer policies on study program with total of 20 credits.

Further Study Track

Code	Course Name	SCU	Total
Enrichment Program II (Master of Management Information Systems: Information Systems Strategic Management Stream)			20
ISYS6829001	Digital Technology and Transformation	4	
ISYS6830001	Data Analytics for Business	6	
ISYS6831001	Applied Technology in Information Systems*	4	
ISYS6806001	Strategic Planning for Information Systems	6	
Enrichment Program II (Master of Management Information Systems: Digitalpreneurship Stream)			
ISYS6829001	Digital Technology and Transformation	4	
ISYS6830001	Data Analytics for Business	6	
ISYS6831001	Applied Technology in Information Systems*	4	

Code	Course Name	SCU	Total
ISYS6848001	New Media Ventures and Innovation	6	
Enrichment Program II (Master of Computer Science: Data Science Stream)			20
COMP6816001	Wireless and Cloud Computing Technologies	4	
COMP6997001	IT Disaster Recovery	6	
COMP6981001	Applied Technology in Computer Science*	4	
COMP6998001	Knowledge Engineering	6	
Enrichment Program II (Master of Computer Science: Information Security Management)			
COMP6816001	Wireless and Cloud Computing Technologies	4	
COMP6997001	IT Disaster Recovery	6	
COMP6981001	Applied Technology in Computer Science*	4	
COMP6980001	Networking and Security Concepts	6	

*) Students are required to obtain certification no later than the end of the first semester of the master's (S2) program, as outlined in the university's official guidelines. This certification will be transferred as an undergraduate (S1) course and reported in the seventh semester of the undergraduate program.

Student should pass all of these quality controlled courses as listed below:

No.	Course Code	Course Name	Minimal Grade
1.	CHAR6013	Character Building: <i>Pancasila</i>	B
2.	ENTR6511001	Entrepreneurship: Market Validation	C
3.	COMP6047	Algorithm and Programming*	C
4.	COMP6048	Data Structures	C
5.	COMP6056001	Program Design Methods	C
6.	COMP6644001	Software Engineering	C
7.	MOBI6056	Mobile Creative Design*	C
8.	MOBI6006001	Mobile Community Solution*	C

*) Tutorial & Multipaper