Doctor of IT Curriculum Structure

Students must complete 91 credits for graduation. The structure of this program is divided into three (3) levels:

Level 1:

Students are required to take seven (7) subjects or 21 credits for two (2) semesters. This includes two (2) university subjects and five (5) faculty subjects relevant to students' research. The subjects offered each semester will be decided by the faculty. The list of subjects are as in **Appendix A**. The following is the structure of the program for the first year.

Year 1 (Semester 1)

Code	Course Name	Classification	Cred it
PPSW 6013	Research Methodology	University (Compulsory)	3
MITX XXXX	Faculty subject	Faculty (Elective)**	3
MITX XXXX	Elective 1	Specialization***	3
		JUMLAH	9

Year 1 (Semester 2)

Code	Course Name	Classification	Credit
PPSW XXXX	University Subject	University (Elective)*	3
MITX XXXX	Faculty	Faculty (Elective)**	3
MITX XXXX	Elective 2	Specialization***	3
MITX XXXX	Elective 3	Specialization***	3
		JUMLAH	12

^{*} University elective subject (Choose one only)

Level 2:

Candidates are required to prepare the research for one (1) semester that carries 14 credits. This level covers research preparation, including the preparation and presentation of the research proposal. The students will carry out the literature review, and plan for the research methodology.

Level 3 (P3):

Candidates are required to undertake research in the industry for two (2) years (4 semesters), which are equivalent to 56 credits (14 credits each semester). Candidates will conduct full-time research that focuses on the industry's problems. In the final semester, candidates will prepare for the dissertation and viva session. The following is the program structure for the Doctor of IT.

^{**} Faculty elective subject (Choose two only)

^{***} Specialization subject (Choose three only)

Table 1: Program structure

	Yea	ar 1	Yea	ar 2	Yea	ar 3	Yea	ar 4
Level	Sem	Sem						
	1	2	1	2	1	2	1	2
L1: Coursework	9	12						
	credit	credit						
L2: Research			14					
Preparation			credit					
L3: Research				14	14	14	14	
				credit	credit	credit	credit	

Research Areas

The research areas in computing are as follows:

- Databases and data quality
- Software Engineering
- Immersive Technology and Wearable Computing
- Multimedia and Game Technology
- Information Security and Digital Forensics Research
- Geo-Information System and Database
- Bio Computing and Engineering
- Advanced Networking and Distributed Systems
- Other ICT topics

Appendix A: Subjects list

Compulsory (University)

Module	Code	Matapelajaran	Credit
Compulsory subject	PPSW 6013	Research Methodology	3
Elective (Choose	PPSW 6023	Entrepreneurship	3
ONE)	PPSW 6073	Project management	3
	PPSW 6053	Quality system management	3
	PPSW 6033	Engineering & technology management	3

Compulsory (Faculty)

Module	Code	Matapelajaran	Credit
Choose TWO	MITI 5613	Theory Computation	3
	MITP 5313	Current Trend of Database Technology	3
	MITS 5313	Advanced Data communication & Networks	3
	MITS 5113	Computer Architecture & Compiler	3
	MITP 5113	Algorithm Analysis and Design	3

Specilaization: Data and Knowledge engineering

Module	Code	Matapelajaran	Credit
Choose THREE	MITP 5423	Advanced topics software intelligent	3
	MITP 6413	Geospatial Semantics	3
	MITP 6323	Industrial Data Management for Decision Support	3
	MITP 6333	Knowledge Management	3
	MITP 5213	Advanced Software Engineering	3
	MITP 6343	Special Topic on Data Warehousing And Data Mining	3

Specialization: Networking

	<u> </u>		
Module	Code	Matapelajaran	Credit
Choose THREE	MITS 5323	Advanced Scalable Internetworking	3

MITS 5333	Advanced high performance network	3
MITS 5343	Advanced network design & diagnostic	3
MITS 5213	Distributed computing system	3
MITS 5423	Special topic (Computer Forensic)	3

Specialization: Intelligent System and Soft Computing

Module	Code	Matapelajaran	Credit
Choose THREE	MITI 5123	Advanced Artificial Intelligent	3
	MITI 5133	Advanced Soft Computing	3
	MITI 5143	Advanced Evolutionary Computing	3
	MITI 5513	Advanced Artificial Intelligent in manufacturing	3
	MITI 5313	Advanced Image processing and pattern recognition	3
	MITI 5523	Special Topic On Intelligent System And Soft Computing	3

Specialization: Visualisation and Immersive Technology

Module	Code	Matapelajaran	Credit
Choose THREE	MITM 5233	Computer Graphics and Visualizations	3
	MITM 5323	Mobile Application Development	3
	MITM 5423	Multimedia Information Retrieval	3
	MITM 5313	Special Topic on Advanced Human Computer Interaction	3

Specialization: Computational Modelling

Module	Code	Matapelajaran	Credit
Choose THREE	MITI 6323	Mathematical Modeling and Simulation	3
	MITI 5223	Computational Optimization	3
	MITI 5213	Advanced Numerical Methods	3
	MITI 5533	Special Topic in Computational Modelling	3