

## Study Plan

1 <sup>st</sup> Year					
1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester		
MUGE 100	General Education for Human Development	3 credits	MUGE 100	General Education for Human Development **	
ITDS 113	Mathematics and Statistics Foundation for Digital Science and Technology	3 credits	ITDS 121	Advanced Programming	3 credits
ITDS 120	Fundamentals of Programming	3 credits	ITDS 130	Computer Architecture and Operating Systems	2 credits
ITDS 123	Computational Thinking and Problem Solving	2 credits	ITDS 131	Computer System in Practices	1 credit
LATP 111	Thai Language for Communication in Higher Education	2 credits	ITDS 191	Fundamentals of Computer Ethics	2 credits
LAEN xxx	English Courses based on Mahidol University's English proficiency score	2 credits	LAEN xxx	English Courses based on Mahidol University's English proficiency score	2 credits
	General Education – 5 Literacy	2 credits		Free Elective Course	3 credits
				General Education – MU Literacy	2 credits
				General Education – 5 Literacy	2 credits
<b>Total 17 credits</b>			<b>Total 17 credits</b>		
3 <sup>rd</sup> Semester					
ITDS 132	Database Management Systems	3 credits			
ITDS 133	Data Structures and Algorithms	3 credits			
<b>Total 6 credits</b>					
2 <sup>nd</sup> Year					
1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester		
ITDS 233	Computer Networks	3 credits	ITDS 253	Fundamentals of Data Science	3 credits
ITDS 243	Web Development and Applications	3 credits	ITDS 273	Computer and Communication Security	3 credits
ITDS 263	Introduction to Software Engineering	3 credits	ITDS 283	Mobile Application Development	3 credits
ITDS 291	Industry Problems and Experiences	2 credits	ITDS 284	Introduction to Internet of Things	3 credits
ITLG 216	Listening and Speaking I	2 credits	ITDS 292	Preparation for Professional Experience	1 credit
	General Education – 5 Literacy	2 credits	ITLG 226	Technical English for Information Technology	2 credits
<b>Total 15 credits</b>			<b>Total 15 credits</b>		
3 <sup>rd</sup> Semester					
ITDS 297	Internship 1	3 credits			
<b>Total 3 credits</b>					
3 <sup>rd</sup> Year					
1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester		
ITDS 381	Technology in Business Processes	3 credits	ITDS 324	Cloud Computing Systems, Services and Applications	3 credits
ITDS 391	Ethics in Digital Science and Technology	1 credit		Major Elective Courses	9 credits
	Major Elective Courses	9 credits		General Education – 5 Literacy	2 credits
	General Education – 5 Literacy	2 credits			
<b>Total 15 credits</b>			<b>Total 14 credits</b>		
3 <sup>rd</sup> Semester					
ITDS 397	Internship 2	3 credits			
<b>Total 3 credits</b>					
4 <sup>th</sup> Year					
1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester		
ITDS 499	Cooperative Education	6 credits	ITDS 493	Capstone Project in Digital Science and Technology	6 credits
				Free Elective Course	3 credits
<b>Total 6 credits</b>			<b>Total 9 credits</b>		