

## Subject

<b>1. General education</b>		30	credits
<b>(1) Language and Communication</b>		9	credits
<b>Control --&gt; Fixed subjects</b>			
1500133	Thai for Communication		3(3-0-6)
1500134	English for Communication		3(3-0-6)
1500135	English at Work		3(3-0-6)
<b>Select</b>			
1500136	Chinese for Communication		3(3-0-6)
1500137	Chinese Conversation at Work		3(3-0-6)
1500138	Japanese for Communication 1		3(3-0-6)
1500139	Japanese for Communication 2		3(3-0-6)
1500140	Basic Tagalog		3(3-0-6)
1500141	Conversation in Tagalog		3(3-0-6)
1500142	Basic Malay		3(3-0-6)
1500143	Conversation in Malay		3(3-0-6)
1500144	Basic Lao		3(3-0-6)
1500145	Conversation in Lao		3(3-0-6)
1500146	Basic Burmese		3(3-0-6)
1500147	Conversation in Burmese		3(3-0-6)
1500148	Basic Vietnamese		3(3-0-6)
1500149	Conversation in Vietnamese		3(3-0-6)
<b>(2) Social Sciences</b>		6	credits
<b>Choose 2 form 3 Subject</b>		6	credits
2000112	Thai Government and Politics		3(3-0-6)
2000113	ASEAN Studies		3(3-0-6)
2000114	Thai Society in Global Context		3(3-0-6)

**Select**

2000115	Human and Environment	3(3-0-6)
2000116	Laws in Daily Life	3(3-0-6)

**(3) Humanities** 6 credits

**Control --> Fixed subjects** 6 credits

2500114	Ethics and Life Skills	3(3-0-6)
2500115	Volunteer Mindedness for Local Development	3(3-0-6)

**Select**

2500116	Aesthetic Appreciation	3(3-0-6)
2500117	Psychology in Daily Life	3(3-0-6)
2500118	Information for Study Skills	3(3-0-6)
2500119	Dvaravati Studies	3(3-0-6)

**(4) Science and Mathematics** 6 credits

**Choose 2 form 3 Subject** 6 credits

4000124	Thinking and Decision Making	3(3-0-6)
4000125	Sport Science for Health	3(3-0-6)
4000126	Information and Communication Technology	3(3-0-6)

**Select**

4000127	Science and Technology Development in the Changing World	3(3-0-6)
4000128	Well-being Promotion	3(3-0-6)
4000129	Recreation for Health	3(3-0-6)
4000130	Health Insurance System in Thailand	3(3-0-6)
4000131	Mathematics in Daily Life	3(3-0-6)

**(5) Other course** 6 credits

<b>2. Major subject</b>		94	credits
<b>(1) Core subjects</b>		15	credits
7101001	Discrete Mathematics		3(2-2-5)
7101002	Numerical Computation and Probability		3(2-2-5)
7101003	Mathematics and Statistics for Computer Technology		3(2-2-5)
7101005	Digital Computer and Logic		3(2-2-5)
7101006	Calculus and Analytic Geometry		3(2-2-5)
<b>(2) Major --&gt;Specialize subjects</b>		72	credits
<b>Control --&gt; Fixed subjects</b>		42	credits
7112101	Computer Policy and Ethics		3(2-2-3)
7112201	Database System		3(2-2-5)
7112202	Human-Computer Interaction		3(2-2-5)
7114211	Computer Technology Research Project 1		1(0-2-1)
7114212	Computer Technology Research Project 2		2(0-4-2)
7111301	Principles of Computer Programming		3(2-2-5)
7112302	Object-oriented Programming		3(2-2-5)
7112303	Abstract Data Types and Problem Solving		3(2-2-5)
7112304	Software Engineering		3(2-2-5)
7112401	Data Communication and Computer Networking		3(2-2-5)
7112402	Operating System		3(2-2-5)
7112403	Multimedia and Computer Graphic		3(2-2-5)
7113405	Smart Machine		3(2-2-5)
7111501	Computer Organization and Architecture		3(2-2-5)
7112502	Microprocessor and Microcontroller		3(2-2-5)

**Select one of fields -->Field subjects**      30      หน่วยกิต

**1) Web and Mobile Technology**

**Control --> Fixed subjects**      24      credits

7112404	Mobile Operating Systems and Basic Application Programming	3(2-2-5)
7113204	Web Application Development	3(2-2-5)
7113205	Mobile Application Development	3(2-2-5)
7113206	Cross Platform Application Development	3(2-2-5)
7113306	Web Technology	3(2-2-5)
7113309	Web Service Technology	3(2-2-5)
7113310	Embedded Systems and Programming	3(2-2-5)
7113506	Cloud Computing	3(2-2-5)

**Choose**      6      credits

7101004	Electric and Electronics for Computer Technology	3(2-2-5)
7101007	English for Computer Technology 1	3(3-0-6)
7101008	English for Computer Technology 2	3(3-0-6)
7112305	Visual Programming	3(2-2-5)
7113102	Computer for Business	3(3-0-6)
7113103	Practical in Electronic Office	3(0-6-3)
7113203	Database Management System	3(2-2-5)
7113308	System Analysis and Design	3(2-2-5)
7113406	Graphical User Interface and Design	3(2-2-5)
7113408	Computer System Security	3(2-2-5)
7113503	Microcomputer Maintenance	3(2-2-5)
7113506	Internet Administration and Services	3(2-2-5)
7114207	Technology Seminar for Applications	3(2-2-5)
7114208	Special Topics in Computer Technology	3(2-2-5)
7114209	Mobile Game Development	3(2-2-5)
7114210	Big Data	3(2-2-5)

## 1) Computer and Network Technology

<b>Control --&gt; Fixed subjects</b>		24	credits
7113407	Network Analysis and Design		3(2-2-5)
7113408	Computer System Security		3(2-2-5)
7113409	Local Area Network System		3(2-2-5)
7113412	TCP/IP Network System		3(2-2-5)
7113503	Microcomputer Maintenance		3(2-2-5)
7113504	Computer and Network Support		3(2-2-5)
7113505	Internet Server Management and Maintenance		3(2-2-5)
7113506	Internet Administration and Services		3(2-2-5)
<b>Choose</b>		6	credits
7101004	Electric and Electronics for Computer Technology		3(2-2-5)
7101007	English for Computer Technology 1		3(3-0-6)
7101008	English for Computer Technology 2		3(3-0-6)
7112404	Mobile Operating Systems and Basic Application Programming		3(2-2-5)
7113102	Computer for Business		3(3-0-6)
7113103	Practical in Electronic Office		3(0-6-3)
7113204	Web Application Development		3(2-2-5)
7113205	Mobile Application Development		3(2-2-5)
7113306	Web Technology		3(2-2-5)
7113307	Software Technology and Installation		3(2-2-5)
7113310	Embedded Systems and Programming		3(2-2-5)
7113410	Standard for Information and Communication Technology		3(2-2-5)
7113411	Network System Security		3(2-2-5)
7114207	Technology Seminar for Applications		3(2-2-5)
7114208	Special Topic in Computer Technology		3(2-2-5)
7114210	Big Data		3(2-2-5)

(3) **Internship or Co-operative education** 7 credits

**Internship**

7114104 Pre-practicum in Computer Technology 2(90)

7114105 Internship in Computer Technology 5(450)

**Co-operative education**

7114106 Pre-practicum Co-operative Education in Computer Technology 1(45)

7114107 Co-operative Education in Computer Technology 6(540)

**3. Free Elective Courses -->Other open-selective subjects** 6 credits