

Faculty of Science and Technology
Department of Computer Science and Engineering
Bachelor's Degree (Four-Year) Major in Computer Science and Engineering
Name of Awarding (Bachelor of Science in Computer Science and Engineering)

YEAR ONE (FOUNDATION YEAR)				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 1				
1	CS 101	A+	3 (2-1-0)	-
2	ENG 106	English for Computing	3 (2-1-0)	-
3	KHM 101	Khmer Studies	3 (3-0-0)	-
4	MAT 101	Mathematics for Computing	3 (2-1-0)	-
5	MIT 101	Business IT and Fintech Concept	3 (3-0-0)	-
Total			15 (12-3-0)	
YEAR ONE (FOUNDATION YEAR)				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 2				
1	CS 105	Web Design	3 (2-1-0)	-
2	CS 106	C# .NET Programming	6 (4-2-0)	MAT 101
3	CS 107	SQL Server	6 (4-2-0)	MAT 101
Total			15 (10-5-0)	
YEAR TWO				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 1				
1	CS 211	UX/UI Design	3 (2-1-0)	-
2	CS 212	Web Development I	3 (2-1-0)	CS 106
3	CS 213	Data Structure & Algorithm	3 (2-1-0)	MAT 101, CS 106
4	CS 214	Java Programming	6 (4-2-0)	CS 106
Total			15 (10-5-0)	
YEAR TWO				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 2				
1	CS 216	Web Development II	3 (2-1-0)	CS 212
2	CS 217	API-Web Service	3 (2-1-0)	CS 212
3	CS 218	Mobile App. Dev. for Android	6 (4-2-0)	CS 214
4	CS 219	Oracle	3 (2-1-0)	CS 107
Total			15 (10-5-0)	
YEAR THREE				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 1				
1	CS 321	Mobile App. Dev. for iOS	6 (4-2-0)	CS 106
2	EE 301	Computer Networking	3 (2-1-0)	CS 211
3	IT 301	Server Administration I	3 (2-1-0)	CS 211
4	STA 308	Data Analytics	3 (2-1-0)	-
Total			15 (10-5-0)	
YEAR THREE				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 2				
1	CS 326	DevOps	3 (2-1-0)	CS 106, CS 107, CS 214
2	EE 306	Basic Electronic	3 (2-1-0)	-
3	IS 301	Soft Skills in Digital Era	3 (3-0-0)	-
4	IT 302	Server Administration II	3 (2-1-0)	IT 301
5	IT 307	CCNA	3 (2-1-0)	IT 301
Total			15 (11-4-0)	

YEAR FOUR				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 1				
1	CS 431	Cloud Technology	3 (2-1-0)	IT 301
2	EE 411	Internet of Things (IoT)	3 (2-1-0)	EE 306
3	IT 411	Project Management	3 (2-1-0)	-
4	MGT 403	Entrepreneurship	3 (3-0-0)	-
5	RES 408	Research Methods in Science and Technology	3 (2-1-0)	STA 308
Total			15 (11-4-0)	
YEAR FOUR				
No.	Course Code	Course Title	Credits	Prerequisite
Semester 2				
1	IT 416	Cyber Security	3 (2-1-0)	CS 431
2	IT 419	Management Information System	3 (3-0-0)	-
3	ETC 405	Three Elective Courses ⁽¹⁾	9 (6-3-0)	TGPA < 3.60
	or			
	THS 408	Thesis ⁽²⁾	9 (2-3-4)	RES 408, TGPA ≥ 3.60
Total			15	

Noted:

- (1) All students can choose 3 (1 course equal 3 credits) among of 5: Software Quality Assurance (CS 441); Robotic Process Automation (RPA) (EE 417); Artificial Intelligence (EE 418), Digital Marketing (MKT 417) or The Art of Communication (AOC 401) for graduate.
 - (2) All students who get the Total Grade Point Average (TGPA) more than 3.60 can writing the thesis (individual) equal 15 credits for graduate.
- L (Lecture) = (1 credit= 15 hours); P (Practice) = (1 credit= 30 hours); and F (Fieldwork) = (1 credit= 45 hours)

Elective Courses			
No.	Course Code	Course Title	Credits
Semester 2			
1	AOC 401	The Art of Communication	3 (3-0-0)
2	CS 441	Software Quality Assurance	3 (2-1-0)
3	EE 417	Robotic Process Automation (RPA)	3 (2-1-0)
4	EE 418	Artificial Intelligence	3 (2-1-0)
5	MKT 417	Digital Marketing	3 (2-1-0)

Foundation Year	Year II	Year III	Year IV	Total
30 Credits	30 Credits	30 Credits	30 Credits	120 Credits