

Information Security Engineering Technology

SPECIALIZATION: Systems/Servers Security Administration - Diploma (HD)

Total Credits Hours: 111 C.H.

Year 1																											
1st Semester					2nd Semester					Summer																	
No.	Description (Math and Sciences, Humanities, Engineering Technologyetc.)	Course	re-requl	L	B	T	CH	CR	No.	Description (Math and Sciences, Humanities, Engineering Technologyetc.)	Course	re-requl	L	B	T	CH	CR	No.	Description (Math and Sciences, Humanitiesetc.)	Course	re-requl	L	B	T	CH	CR	
MATH1001	Precalculus (W.B.)		-	3	0	2	5	3	ICT1201	Object Oriented Programming in Java	ICT100	2	2	1	5	3	3	ICT1301	Fundamentals of Information Security	ICT1202	2	2	0	4	3		
ICT1001	Introduction to Programming & Problem Solving (W.B.)		-	2	2	2	6	3	ICT1202	Intro to Computer Networks	ICT100	2	2	1	5	3	3	ENGL1012	Academic English 2	ENGL101	3	0	2	5	3		
ENGL1001	English Skills		-	3	0	2	5	0	MATH1011	Calculus I (W.B.)	MATH	2	2	2	6	3											
HUM1002	Humanities Society & Culture (W.B.)		-	3	0	2	5	3	ENGL1011	Academic English 1		-	3	0	2	5	3										
HUM1001	Islamic Culture (W.B.)		-	3	0	2	5	3	PHYS1011	Physics I (W.B.)		-	3	0	2	5	3										
ENG1011	Intro to Computer Electronics		-	2	2	2	6	3	PHYS1012	Physics 101P		-	0	2	0	2	1										
Total				16	4	12	32	15	Total				12	8	8	28	16	Total				5	2	2	9	6	
Year 2																											
1st Semester					2nd Semester					Summer																	
No.	Description	Course	re-requl	L	B	T	CH	CR	No.	Description	Course	re-requl	L	B	T	CH	CR	No.	Description	Course	re-requl	L	B	T	CH	CR	
ICT2101	Discrete Mathematics	MATH1	3	0	2	5	3	3	ICT2201	Data Structure and Algorithms	ICT120	2	2	1	5	3	3	SSA2301	Microsoft Windows Server Security - OCT I	ICT2202	0	5	0	5	1		
NCS2101	Network Security	ICT120	2	2	0	4	3	3	ICT2202	Operating Systems Security	ICT120	2	2	0	4	3	3	SSA2302	MS Exchange Server Security - OCT I	ICT2202	0	5	0	5	1		
ICT2102	Intro to Database Systems	ICT120	2	2	0	4	3	3	SSD2201	Web Programming and Security	ICT130	2	2	0	4	3	3	SSA2303	Linux/UNIX Operating System Security - OCT I	ICT2202	0	5	0	5	1		
ENGL2011	Public Speaking (Blended L.)	ENGL1	1	0	2	3	1	1	NCS2201	Ethical Hacking and Pen. Testing	NCS214	2	2	0	4	3	3	SSA2304	MS SharePoint Server Security - OCT I	ICT2202	0	5	0	5	1		
ENGL2012	Literature Review (Blended L.)	ENGL1	1	0	2	3	1	1	ISET2201	Applied Cryptography	ICT130	2	2	0	4	3	3	SSA2305	Physical Security and Biometrics - OCT I	ICT1301	0	5	0	5	1		
ENGL2013	Report Writing (Blended L.)	ENGL1	1	0	2	3	1	1	ICT2203	Introduction to Software Security	ICT120	2	2	0	4	3	3	SSA2306	Ethical Hacking and Pen. Testing - OCT I	NCS2201	0	5	0	5	1		
ICT2103	Logic Design & Computer Organization	ENGL10	2	2	1	5	3	3																			
Total				12	6	9	27	15	Total				12	12	1	25	18	Total				0	30	0	30	6	
Year 3																											
1st Semester					2nd Semester					Summer																	
No.	Description	Course	re-requl	L	B	T	CH	CR	No.	Description	Course	re-requl	L	B	T	CH	CR	No.	Description	Course	re-requl	L	B	T	CH	CR	
SSA3101	Virtualization Technology and Security	ICT220	2	2	0	4	3	3	SSA3201	Vulnerability Assessment and Pen. Testing	SSA2304	2	2	0	4	3	3	SSA3301	Linux/Unix Security Administration - OCT II	SSA3102	0	5	0	5	1		
SSA3102	Securing Linux/UNIX/Windows Servers	ICT220	2	2	0	4	3	3	NCS2301	Malware Analysis/Tools and Techniques	NCS234	2	2	0	4	3	3	SSA3302	Server Security Administration - OCT II	SSA2301	0	5	0	5	1		
SSA3103	Emerging Trends in Systems Security	NCS22	2	2	0	4	3	3	SSA3202	Database Server Security Administration	ICT120	2	2	0	4	3	3	SSA3303	Database Server Security - OCT II	SSA3202	0	5	0	5	1		
NCS3104	Cloud Security	NCS214	2	2	1	5	3	3	SSA3205	Capstone Project		1	4	0	5	3	3	SSA3304	MS Sharepoint Security Administration - OCT II	SSA2304	0	5	0	5	1		
ISET3101	InfoSec Project Management (Blended L.)	ICT130	2	2	0	4	3	3	NCS3203	Fundamentals of Digital Forensics	NCS210	2	2	0	4	3	3	SSA3305	Exchange Server Security - OCT II	SSA2306	0	5	0	5	1		
Total				10	8	1	19	14	Total				9	12	0	21	15	Total				0	30	0	30	6	

NOTES:

Pre-requisite for Calculus I (MATH-101): placement exam>70%, or precalculus MATH100

Students can select their specialization at end of 2nd Semester of 2nd year