SAMARKAND INTERNATIONAL UNIVERSITY OF TECHNOLOGY

"CONFIRMED"
Y.N.Abdullaev – The Rector of
Samarkand International
University of Technology



CURRICULUM
Major: Cyber security
Academic degree – Bachelors of Science
Duration of Education - 4 years
Form of Education - Day time

Outline of CYBER SECURITY Program at School of Computing

SIUT Cyber Security Curriculum			
Freshmen Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
MFCS26S11	Maths for CS-I	3	
DMST26S12	Discrete Mathematical Structures	3	
ICTE26S13	ICTE	3	
PSUP26S14	Problem Solving Using Python Programming	3	
ACEN26S15	Academic English I	3	
SELA26S16	Second Language I (French, Chinese or Korean)	3	Selection
	TOTAL CREDITS	**18**	
FFIN26S17	**Freshmen Fall Internship**		**Pass/Fail**
Freshmen Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
MFCS27S21	Maths for CS-II	3	
DLDE27S22	Digital Logic Design	3	
APPR27S23	Advanced Python Programming	3	
OOPJ27S24	Object Oriented Programming using Java	3	
ACEN27S25	Academic English II	3	
SELA27S26	Second Language II (French, Chinese or Korean)	3	Selection
	TOTAL CREDITS	**18**	
FSIN27S27	**Freshmen Summer Internship**	1	
Sophomore Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
TCFS27S31	Transform Calculus, Fourier Series, And Numerical	3	
SEPM27S32	Software Engineering and Project Management	3	
DSAA27S33	Data Structures and Algorithms-I	3	
DCCN27S34	Data Communications and Computer Networks	3	
ACEN27S35	Academic English III	3	

SELA27S36	Second Language III (French, Chinese or Korean)	3	Selection
ITWP27S37	Introduction to Web Programming	3	
	TOTAL CREDITS	**21**	
SFIN27S38	**Sophomore Fall Internship**		**Pass/Fail**
Sophomore Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
CPSM28S41	Complex Analysis, Probability, and Statistical Methods	3	
ITAI28S42	Introduction to Artificial Intelligence	3	
DSAA28S43	Data Structures and Algorithms-II	3	
DMSY28S44	Database Management Systems	3	
ACEN28S45	Academic English IV	3	
SELA28S46	Second Language IV (French, Chinese or Korean)	3	Selection
AWPR28S47	Advanced Web Programming	3	
	TOTAL CREDITS	**21**	
SSIN28S48	**Sophomore Summer Internship**	**1**	
Junior Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
OSYS28S51	Operating Systems	**3**	
MLEA28S52	Machine Learning	3	
NADM28S53	**Network Administration**	3	
ATHE28S54	Automata Theory	3	
SSEC28S55	Cyber Security	3	
MEIT28S56	Management and Entrepreneurship for the IT Industry	2	
	TOTAL CREDITS	**17**	
JFIN28S57	**Junior Fall Internship**		**Pass/Fail**
Junior Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
CABT29S61	Cryptography & Blockchain Technology	3	
DAPS29S62	DevSecOps & Pipeline Security	3	
NPRO29S63	**Network Programming**	3	
IOTH29S64	Internet of Things (IoT)	3	
CCSE29S65	Cloud Computing and Security Essentials	3	
RMET29S66	Research Methodology	2	
	TOTAL CREDITS	**17**	
JSIN29S67	**Junior Summer Internship**	1	
Senior Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
CSOT29S71	Cloud Security/Security Operations &SIEM Tools	3	
NMAS29S72	**Network & Mobile Application Security**	3	

DCCI29S73	Digital Forensics and Cyber Crime Investigation	3	
MPRO29S74	Major Project - I	3	
	TOTAL CREDITS	**12**	
SFIN29S75	**Senior Fall Internship**		**Pass/Fail**
Senior Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
MPRO30S81	Major Project - II	3	
EHPT30S82	Ethical Hacking and Penetration Testing	3	
CFIR30S83	Cyber Laws, Forensics, and Incident Response	3	
	TOTAL CREDITS	**9**	
	TOTAL CREDITS FOR DEGREE	**136**	