SAMARKAND INTERNATIONAL UNIVERSITY OF TECHNOLOGY

"CONFIRMED"
Y.N.Abdullaev – The Rector of
Samarkand International
University of Technology
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CURRICULUM
Major: Intelligence Robotics
Academic degree – Bachelors of Science
Duration of Education - 4 years
Form of Education - Day time

Outline of Intelligence Robotics Program at School of Engineering

SIUT Intelligence Robotics 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
CRBD27S37	Classical Mechanics & Rigid Body Dynamics (Physics	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	
ITAI23S42	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
SASC28S47	Sensors, Actuators & Signal Conditioning (Physics	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	
CVIP28S53	Computer Vision & Image Processing	3	
KADR28S54	Kinematics and Dynamics of Robots	3	
SSEC28S55	Cyber Security	3	
RSLA28S56	Robotics Simulation Laboratory - I	3	
	TOTAL CREDITS	**18**	
JFIN28S57	**Junior Fall Internship**		**Pass/Fail**
Junior Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
ANAS29S61	Autonomous Navigation & SLAM	3	
DLEA29S62	Deep Learning	3	
NLPR29S63	Natural Language Processing (NLP)	3	
IOTH29S64	Internet of Things (IoT)	3	
CCSE29S65	Cloud Computing and Security Essentials	3	
CSEN29S66	Control Systems Engineering	3	
	TOTAL CREDITS	**18**	
JSIN29S67	**Junior Summer Internship**	1	
Senior Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
DRLR29S71	Deep Reinforcement Learning for Robotics	3	
IADT29S72	Industrial Automation & Digital Twins	3	

HISS29S73	Human-Robot Interaction & Safety Systems	3	
CPPH29S74	Capstone Project Phase - I	3	
RILA29S75	Robotics Integration Lab	3	
	TOTAL CREDITS	**15**	
SFIN29S75	**Senior Fall Internship**		**Pass/Fail**
Senior Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
CPPH30S81	Capstone Project Phase - II	3	
AVDS30S82	Autonomous Vehicles & Drive Systems	3	
CRFO30S83	Cloud Robotics & Fleet Operations	3	
	TOTAL CREDITS	**9**	
	TOTAL CREDITS FOR DEGREE	**140**	