SAMARKAND INTERNATIONAL UNIVERSITY OF TECHNOLOGY

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

Outline of Renewable Energy Program at KITC

SIUT Renewable Energy Engineering Curriculum			
Freshmen Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
ITRE26S11	Introduction to Renewable Energy	3	
CALC26S12	Calculus I	3	
FOPR26S13	ICTE	3	
GECH26S14	General Chemistry I and Lab	3	
ACEN26S15	Academic English I	3	
SELA26S16	Second Language I (French, Chinese or Korean)	3	Selection 1/3
	TOTAL CREDITS	**18**	
FFIN26S17	**Freshmen Fall Internship**		**Pass/Fail**
Freshmen Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
CALC27S21	Calculus II	3	
ENMA27S22	Engineering Mathematics I - Linear Algebra	3	
PHME27S23	Physics I - Mechanics	3	
CHAL27S24	Chemistry I and Lab	3	
ACEN27S25	Academic English II	3	
SELA27S26	Second Language II (French, Chinese or Korean)	3	Selection 1/3
	TOTAL CREDITS	**18**	
FSIN27S27	**Freshmen Summer Internship**	**1**	
Sophomore Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
MEMA27S31	Mechanics of Materials I (Statics)	3	Statics
ENMA27S32	Engineering Mathematics II - Differential Equations	3	ODE/PDE
PHEM27S33	Physics II - Electricity and Magnetism	3	
CHAL27S34	Chemistry II and Lab	3	
ACEN27S35	Academic English III	3	
SELA27S36	Second Language III (French, Chinese or Korean)	3	Selection 1/3

	TOTAL CREDITS	**18**	
SFIN27S37	**Sophomore Fall Internship**		**Pass/Fail**
Sophomore Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
STPR28S41	Statistics and Probability	3	
THDY28S42	Thermodynamics	3	
MEMA28S43	Mechanics of Materials II (Strength of Materials)	3	
FUSE28S44	Fundamentals of Semiconductors	3	
ACEN28S45	Academic English IV	3	
SELA28S46	Second Language IV (French, Chinese or Korean)	3	Selection 1/3
	TOTAL CREDITS	**18**	
SSIN28S47	**Sophomore Summer Internship**	**1**	

Junior Fall

Course Number	**Course Title**	**Credit Hours**	**Remark**
FLME28S51	Fluid Mechanics	3	***The November internship runs in parallel.***
PHCH28S52	Physical Chemistry	3	
FEEG28S53	Foundation of Electrical Engineering	3	
REEN28S54	Renewable Energy Engineering	3	
SEDE28S55	Semiconductor Devices	3	
SCML28S56	Solar Cell/Module and Lab	3	
	TOTAL CREDITS	**18**	
JFIN28S57	**Junior Fall Internship**		**Pass/Fail**
Junior Spring			
Course Number	**Course Title**	**Credit Hours**	**Remark**
PREC29S61	Principle of Economics	3	
AQME29S62	Applied Quantum Mechanics	3	
WTEL29S63	Wind Turbine Engineering and Lab	3	
ESTE29S64	Energy Storage Technology	3	
PHSY29S65	Photovoltaic Systems	3	
CNST29S66	Carbon Neutral Strategy	3	
	TOTAL CREDITS	**18**	
JSIN29S67	**Junior Summer Internship**	**1**	
Senior Fall			
Course Number	**Course Title**	**Credit Hours**	**Remark**
HAMT29S71	Heat and Mass Transfer	3	***The November internship runs in parallel.*** **(Graduation Research)**
ASSP29S72	Applied Solid State Physics	3	
POEL29S73	Power Electronics	3	
WPPP29S74	Wind Power Park Planning	3	
SEPR29S75	Semiconductor Processing	3	
	TOTAL CREDITS	**15**	
Senior Spring			

Course Number	Course Title	Credit Hours	Remark
BAPE30S81	Bachelor Project	3	**BSc Graduation Thesis**
INTE30S82	**Internship in Company**	**1**	*It may start in the summer season, if available.*
	TOTAL CREDITS	**4**	
	TOTAL CREDITS FOR DEGREE	**130**	