

Academic Year 2026						
List of Courses for Exchange Students						
1st semester/2026 (August 3, 2026 - December 4, 2026)						
Please note that:						
1. Language of Instruction: All courses are conducted in English.						
2. Course Availability: Enrollment in each course depends on seat availability and approval from the course instructor. If a course is full or not approved by the instructor, you will not be able to enroll in that course.						
3. Course Structure: The numbers of credits (e.g., 3(3-0-6)) represent the credits, lecture hours, laboratory/practice hours, and self study hours per week.						
4. Course Level: All courses offered to exchange students are undergraduate-level courses. Graduate students can enroll in some courses. If you are a graduate student in Master level, please make sure that your university can accept credits earned from an undergraduate-level course.						
5. Course Descriptions: Please download course description at:						
Courses for 1st - 2nd year student: https://drive.google.com/file/d/1q6wE-4DibJJzAbB6i4tFLxRmDRyIgyk/view						
Courses for 3rd year student: https://drive.google.com/file/d/1Dhn2kd7-mmGwr3rHKMSGla98KeShiO6V/view						
Courses for 4th year student: https://drive.google.com/file/d/1dcyT3-tYdoi92svnA1vUC9xASi1xlrhA/view						
6. SIIT offers undergraduate-level courses in the following programs:						
1. Chemical Engineering (ChE) Program		5. Digital Engineering (DE) program				
2. Civil Engineering (CE) Program		6. Computer Engineering (CPE) Program				
3. Industrial Engineering and Smart Logistics (IE) Program		7. Electrical Engineering (EE) Program				
4. Mechanical Engineering (ME) Program		8. Business and Supply Chain Analytics (BA) Program				
School of Integrated Science and Innovation (ISI)						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
ChE, CE, EE, IE, ME, CPE, DE - 1st year	MAS116	Mathematics I	3(3-0-6)	Yes	No	Exchange student in first year student only
ChE, CE, EE, IE, ME- 1st year	SCS136	Physics	3(3-0-6)	Yes	No	Exchange student in first year student only
CPE, DE- 1st year	SCS141	General Science	3(3-0-6)	Yes	No	Exchange student in first year student only
ChE, CE, EE, IE, ME, BA- 1st year	GTS124	Artificial Intelligence and Applications	3(3-0-6)	Yes	No	
ChE, CE, EE, IE, ME, BA- 1st year	GTS131	Circularity for Sustainable Development	3(3-0-6)	Yes	No	
ChE, CE, EE, IE, ME, BA- 1st year	TU108	Self Development and Management	3(3-0-6)	Yes	No	
CPE, DE- 1st year	GTS101	Extended English in Practice	3(3-0-6)	Yes	No	
CPE, DE- 1st year	TU106	Creativity and Communication	3(3-0-6)	Yes	No	
Chemical Engineering (ChE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
ChE 2nd Year	CHS211	Organic Chemistry	(3-0-6)	Yes	Yes	Need chemistry background
	CHS212	Physical Chemistry	(3-0-6)	Yes	Yes	Need chemistry background
	CHS241	Material and Energy Balance	(3-0-6)	Yes	Yes	
ChE 3rd Year	CHS315	Safety and Environmental Processes for ChE	(3-0-6)	Yes	Yes	
	CHS343	Thermodynamics II	(3-0-6)	Yes	Yes	Need thermodynamics background
	CHS352	Heat Transfer	(3-0-6)	Yes	Yes	
	CHS355	ChE Equipment and Process Design	(3-0-6)	Yes	Yes	
ChE 4th Year	CHS416	Big Data Analytics in Chemical Engineering	(3-0-6)	Yes	Yes	Need some computer software background
	CHS417	Green Technology for Chemical Engineering	(3-0-6)	Yes	Yes	
	CHS457	ChE Plant Design and Project Management	(3-0-6)	Yes	Yes	
	CHSxxx	Technical Elective Course	(3-0-6)	Yes	Yes	
Civil Engineering (CE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
CE 2nd Year	CES215	Applied Mathematics in Civil Engineering	(3-0-6)	Yes	Yes	
CE 3rd Year	CES312	Structural Analysis	(3-0-6)	Yes	Yes	
	CES331	Soil Mechanics	(3-0-6)	Yes	Yes	
	CES353	Construction Engineering and Management	(3-0-6)	Yes	Yes	
	CES444	Hydraulic Engineering	(3-0-6)	Yes	Yes	

CE 4th Year	CES354	Maintenance of Structures	(3-0-6)	Yes	Yes	
	CES414	Finite Element Methods in Engineering	(3-0-6)	Yes	Yes	
	CESxxx	Technical Electiv	(s) 6(x-x-x)	Yes	Yes	
Industrial Engineering and Smart Logistics (IE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
IE 2nd Year	IES201	Industrial Engineering Mathematics	(3-0-6)	Yes	No	
	IES301	Manufacturing Processes	(3-0-6)	Yes	No	
IE 3rd Year	IES321	Operations Research I	(3-0-6)	Yes	No	
	IES331	Quality Control	(3-0-6)	Yes	No	
	IES343	Safety Engineering	(3-0-6)	Yes	Yes	
	IES391	Applied Statistical Methods	(3-0-6)	Yes	No	Present Academic Transcript to an Instructor
IE 4th year	IES332	Factory Automation and Intelligent Control	(3-0-6)	Yes	No	
	IES333	Product Design and Development	(3-0-6)	Yes	No	
	IES351	Maintenance Engineering and Intelligent Technologies	(3-0-6)	Yes	No	
	IES332	Factory Automation and Intelligent Control	(3-0-6)	Yes	No	
	IES333	Product Design and Development	(3-0-6)	Yes	No	
	IES351	Maintenance Engineering and Intelligent Technologies	(3-0-6)	Yes	No	
Mechanical Engineering (ME) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
ME 2nd Year	MES300	Engineering Drawing	(2-3-4)	Yes	Yes	
	MES311	Thermodynamics	(3-0-6)	Yes	Yes	For graduate students, they should not study this course in their UG level before.
	MES350	Engineering Statics	(3-0-6)	Yes	Yes	Mechanical Engineering students only
ME 3rd Year	MES321	Heat Transfer	(3-0-6)	Yes	Yes	Pre-requisite - Fluid Mechanics and Thermodynamics
	MES352	Mechanics of Machinery	(3-0-6)	Yes	Yes	Pre-requisite - Engineering Dynamics
	MES382	Mechanical Vibration	(3-0-6)	Yes	Yes	
ME 4th Year	MES462	Turbomachinery	(3-0-6)	Yes	Yes	Pre-requisite - Thermodynamics
	MES482	Power Generation Systems and Environmental Impacts	(3-0-6)	Yes	Yes	Pre-requisite - Thermodynamics
	MES484	Automatic Control	(3-0-6)	Yes	Yes	Senior Standing Mechanical Engineering
	MES486	Robotics	(3-0-6)	Yes	No	Pre-requisite - Engineering Dynamics and Mechanic of Machinery
Computer Engineering (CPE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
CPE 3rd Year	CSS321	Theory of Computation	(3-0-6)	Yes	No	
	CSS322	Scientific Computing	(3-0-6)	Yes	Yes	
	CSS324	Artificial Intelligence	(3-0-6)	Yes	Yes	
	CSS325	Database Systems	(3-0-6)	Yes	Yes	
CPE 4th Year	CSS433	Computer Vision	(3-0-6)	Yes	Yes	
	CSS434	Knowledge Representation and Reasoning	(3-0-6)	Yes	Yes	
Digital Engineering (DE) program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
DE 2nd Year	DES201	Discrete Mathematics	(3-0-6)	Yes	No	
	DES221	Data Structures and Algorithms	(3-0-6)	Yes	No	
DE 3rd Year	DES232	Introduction to Data Communications	(3-0-6)	Yes	No	Academic background required
	DES331	Computer Networks Architectures and Protocols	(3-0-6)	Yes	No	Academic background required
DE 4th Year	DES324	Entrepreneurship for Digital Business	(3-0-6)	Yes	No	
	DES423	Applied Machine Learning and AI	(3-0-6)	Yes	No	
	DES424	Cloud-based Application Development	(3-0-6)	Yes	No	
Electrical Engineering (EE) Program						

Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
EE 2nd year	EES216	Circuit Analysis	(3-0-6)	Yes	No	
	EES227	Linear Algebra and Optimization Method	(3-0-6)	Yes	No	
	EES332	Microelectronics and Fabrication	(3-0-6)	Yes	No	
EE 3rd year	EES341	Electrical Machines	(3-0-6)	Yes	No	
	EES351	Principles of Communications	(3-0-6)	Yes	No	
	EES381	Control Systems	(3-0-6)	Yes	No	
	EES382	Microprocessors and IoT	(3-0-6)	Yes	No	
EE 4th year	EES455	Wireless Communications	(3-0-6)	Yes	Yes	
	EES441	Electrical System Design and Safety	(3-0-6)	Yes	Yes	
	EES443	High Voltage Engineering	(3-0-6)	Yes	Yes	
	EES445	Renewable Energy and Energy Management	(3-0-6)	Yes	Yes	
	EES449	Smart Grid Technology	(3-0-6)	Yes	Yes	
Business and Supply Chain Analytics (BA) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
BA 2nd Year	BAS211	Fundamentals of Financial and Managerial Accounting	(3-0-6)	Yes	No	
	BAS230	Introduction to Management Science	(3-0-6)	Yes	No	
BA 3rd Year	BAS350	Enterprise Planning and Control Systems	(3-0-6)	Yes	No	
	BAS351	Management Optimization and Prescriptive Analytics	(3-0-6)	Yes	No	
BA 4th Year	BAS411	International Trade and Business	(3-0-6)	Yes	No	
	BAS423	Project Management	(3-0-6)	Yes	No	

Academic Year 2026						
List of Courses for Exchange Students						
Second semester/2026 (January 4, 2027 - May 15, 2027)						
Please note that:						
1. Language of Instruction: All courses are conducted in English.						
2. Course Availability: Enrollment in each course depends on seat availability and approval from the course instructor. If a course is full or not approved by the instructor, you will not be able to enroll in that course.						
3. Course Structure: The numbers of credits (e.g., 3(3-0-6)) represent the credits, lecture hours, laboratory/practice hours, and self study hours per week.						
4. Course Level: All courses offered to exchange students are undergraduate-level courses. Graduate students can enroll in some courses. If you are a graduate student in Master level, please make sure that your university can accept credits earned from an undergraduate-level course.						
5. Course Descriptions: Please download course description at:						
Courses for 1st - 2nd year student: https://drive.google.com/file/d/1q6wE-4Dib1JzAbB6i4tFfLxRmDRyIgyk/view						
Courses for 3rd year student: https://drive.google.com/file/d/1Dhn2kd7-mmGwr3rHKMSGla98KeShiQ6V/view						
Courses for 4th year student: https://drive.google.com/file/d/1dcyT3-tYdoi92svnA1vUC9xASi1xIrhA/view						
6. SIIT offers undergraduate-level courses in the following programs:						
1. Chemical Engineering (ChE) Program		5. Digital Engineering (DE) program				
2. Civil Engineering (CE) Program		6. Computer Engineering (CPE) Program				
3. Industrial Engineering and Smart Logistics (IE) Program		7. Electrical Engineering (EE) Program				
4. Mechanical Engineering (ME) Program		8. Business and Supply Chain Analytics (BA) Program				
School of Integrated Science and Innovation (ISI)						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
ChE, CE, EE, IE, ME, CPE, DE - 1st year	MAS117	Mathematics II	3(3-0-6)	Yes	No	Exchange student in first year student only
ChE, CE, EE, IE, ME - 1st year	SCS126	Chemistry for Engineers	3(3-0-6)	Yes	No	Exchange student in first year student only
ChE, CE, EE, IE, ME, BA - 1st year	TU106	Creativity and Communication	3(3-0-6)	Yes	No	
ChE, CE, EE, IE, ME, BA - 1st year	GTS101	Extended English in Practice	3(3-0-6)	Yes	No	
CPE, DE - 1st year	GTS131	Circularity for Sustainable Development	3(3-0-6)	Yes	No	
CPE, DE - 1st year	GTS124	Artificial Intelligence and Applications	3(3-0-6)	Yes	No	
CPE, DE - 1st year	TU108	Self Development and Management	3(3-0-6)	Yes	No	
Chemical Engineering (ChE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
ChE 2nd Year	CHS213	Statistics and Experimental Design for ChE	(3-0-6)	Yes	Yes	
	CHS242	Thermodynamics I	(3-0-6)	Yes	Yes	
	CHS251	Fluid Dynamics and Transport Phenomena	(3-0-6)	Yes	Yes	
	CHS331	Chemical Reaction Kinetics and Reactor Design	(3-0-6)	Yes	Yes	
	CHS275	Analytical and Instrumental Chemistry	(3-0-6)	Yes	Yes	
ChE 3rd Year	CHS314	Engineering Economy and Business Management	(3-0-6)	Yes	Yes	
	CHS353	Mass Transfer	(3-0-6)	Yes	Yes	
	CHS359	Computer Applications for Chemical Engineering	(3-0-6)	Yes	Yes	Need some computer software background
	CHS264	Process Dynamics and Control	(3-0-6)	Yes	Yes	Need chemical engineering and mathematics background
Civil Engineering (CE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
CE 2nd Year	CES204	Building Facilities	(3-0-6)	Yes	Yes	
	CES271	Mechanics of Solids I	(3-0-6)	Yes	Yes	
	CES281	Hydraulics	(3-0-6)	Yes	Yes	
	MAS216	Probability and Statistics	(3-0-6)	Yes	Yes	
CE 3rd Year	CES321	Steel and Timber Design	(3-0-6)	Yes	Yes	
	CES322	Reinforced Concrete Design	(3-0-6)	Yes	Yes	
	CES334	Geotechnical Earthquake Engineering	(3-0-6)	Yes	Yes	
	CES355	Integrated Construction Technology	(3-0-6)	Yes	Yes	
Industrial Engineering and Smart Logistics (IE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition

IE 2nd year	IES302	Engineering Statistics	(3-0-6)	Yes	No	Present Academic Transcript
	IES312	Methods Analysis and Work Measurement	(3-0-6)	Yes	No	
	IES341	Engineering Economy	(3-0-6)	Yes	No	
	IES361	Manufacturing Process Design	(3-0-6)	Yes	No	
IE 3rd year	IES313	Industrial Plant Design	(3-0-6)	Yes	No	
	IES323	Production Planning and Control	(3-0-6)	Yes	No	
	IES333	Product Design and Development	(3-0-6)	Yes	No	
	IES376	Logistics and Supply Chain Management	(3-0-6)	Yes	No	
Mechanical Engineering (ME) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
ME 2nd year	MES210	Applied Mathematics for Mechanical Engineers	(3-0-6)	Yes	No	Engineering Drawing with basic CAD Mechanical Engineering students only For graduate students, they should not study this course in their UG level before.
	MES301	Computer Aided Mechanical Engineering Design	(1-3-2)	Yes	Yes	
	MES331	Solid Mechanics	(3-0-6)	Yes	Yes	
	MES341	Fluid Mechanics	(3-0-6)	Yes	Yes	
ME 3rd Year	MES351	Engineering Dynamics	(3-0-6)	Yes	No	Pre-requisite - Solid Mechanics Pre-requisite - Fluid Mechanics and Thermodynamics Senior Standing Mechanical Engineering
	MES333	Design of Machine Elements	(3-0-6)	Yes	Yes	
	MES342	Refrigeration and Air Conditioning	(3-0-6)	Yes	Yes	
	MES383	Hydraulic and Pneumatic Control	(3-0-6)	Yes	Yes	
	MES384	Measurement and Instrumentation	(3-0-6)	Yes	Yes	
Computer Engineering (CPE) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
CPE 2nd Year	CSS334	Computer Networks and Internetworking	(3-0-6)	Yes	No	
CPE 3rd Year	CSS431	Machine Learning and Pattern Recognition	(3-0-6)	Yes	Yes	
	CSS432	Natural Language Processing and Information	(3-0-6)	Yes	Yes	
Digital Engineering (DE) program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
DE 1st Year	DES102	Object-Oriented Programming	3(3-0-6)	Yes	Yes	Academic background required Academic background required Academic background required
DE 2nd Year	DES227	Algorithm Design	(3-0-6)	Yes	No	
	DES229	Human Computer Interface Design	(3-0-6)	Yes	No	
DE 3rd Year	DES329	System Analysis and Design	(3-0-6)	Yes	No	
	DES332	Computer and Network Security	(3-0-6)	Yes	No	
	DES421	Location-based Services and Digital Mapping	(3-0-6)	Yes	No	
	DES422	Business Application Development	(3-0-6)	Yes	No	
Electrical Engineering (EE)Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
EE 2nd year	EES212	Electromagnetics	(3-0-6)	Yes	No	Academic background required Academic background required Academic background required
	EES271	Digital Circuits	(3-0-6)	Yes	No	
	EES281	Signals and Systems	(3-0-6)	Yes	No	
	EES315	Probability and Random Processes	(3-0-6)	Yes	No	
	EES331	Electronics	(3-0-6)	Yes	No	
EE 3rd year	EES478	Computer Vision	(3-0-6)	Yes	No	
	EES451	Data Communications and Networks	(3-0-6)	Yes	No	
	EES452	Digital Communication Systems	(3-0-6)	Yes	No	
	EES477	Signal Processing for Communication Systems	(3-0-6)	Yes	No	
	EES340	Electrical Machines Laboratory	(0-3-0)	Yes	No	
	EES342	Electrical Power System	(3-0-6)	Yes	No	
	EES442	Power Electronics	(3-0-6)	Yes	No	
EES447	Power Plants and Substations	(3-0-6)	Yes	No		
Business and Supply Chain Analytics (BA) Program						
Year	Course Code	Course Title	Credit	Undergraduate	Graduate	Condition
BA 2nd Year	BAS212	Business Finance	(3-0-6)	Yes	No	
	BAS213	Business Information Systems	(3-0-6)	Yes	No	

	BAS214	Operations Management and Analytics	(3-0-6)	Yes	No	
BA 3rd Year	BAS352	Supply Chain Management and Analytics	(3-0-6)	Yes	No	
	BAS357	Economic Decision Analysis	(3-0-6)	Yes	No	
	BAS353	Inventory Management and Analytics	(3-0-6)	Yes	No	
	BAS354	Transportation, Warehouse and Logistics Management	(3-0-6)	Yes	No	
	BAS356	Strategic Sourcing and Supply Management	(3-0-6)	Yes	No	
	BAS321	Production and Inventory Management	(3-0-6)	Yes	No	
	BAS330	Basic Engineering	(3-0-6)	Yes	No	
	BAS358	Lean, Internet of Things and Quality Management	(3-0-6)	Yes	No	
	BAS359	Facility Location and Layout Planning	(3-0-6)	Yes	No	