

List of Courses for Exchange student

1st semester/2017 (August 2017 - December 2017)

Please note that:

- The numbers of credits (e.g., 3(3-0-6)) represent the credits, lecture hours, laboratory/practice hours, and self study hours per week.
- Incoming exchange students will be classified according to their academic year:

B1	:	Bachelor Degree (1 st Year)
B2-B4	:	Bachelor Degree (2 nd Year to 4 th Year)
M	:	Masters Degree
D	:	Doctoral Degree

Basic Courses (General, Math, Sciences)

No	Code	Course Name	Credits	B1	B2-B4	M-D
1	GTS101	Skills Development for Technical Studies	3 (3-0-6)	✓	-	-
2	GTS111	Mathematical Analysis for Management Science	3 (3-0-6)	✓	-	-
3	GTS116	Mathematics for Technologists I	3 (3-0-6)	✓	-	-
4	GTS121	General Science I	3 (3-0-6)	✓	-	-
5	GTS132	Introduction to Biological Science	3 (3-0-6)	✓	-	-
6	GTS202	English Language Structures	3 (3-0-6)	✓	✓	✓
7	GTS210	Mathematics for Technologists III	3 (3-0-6)	✓	-	-
8	GTS212	Calculus for Technologists I	3 (3-0-6)	✓	-	-
9	GTS213	Calculus for Technologists II	3 (3-1-5)	✓	-	-
10	GTS231	Law and Technology	3 (3-0-6)	✓	✓	✓
11	GTS302	Technical Writing	2 (2-1-3)	✓	✓	✓
12	MAS116	Mathematics I	3 (3-0-6)	✓	-	-
13	MAS210	Mathematics III	3 (3-0-6)	✓	-	-
14	MAS215	Differential Equations	3 (3-0-6)	✓	-	-
15	SCS126	Chemistry for Engineers	3 (3-0-6)	✓	-	-
16	SCS138	Applied Physics I	3 (3-0-6)	✓	-	-
17	TU110	Integrated Humanities	2 (2-0-4)	✓	✓	✓
18	TU120	Integrated Social Sciences	2 (2-0-4)	✓	✓	✓
19	TU140	Thai Studies	3 (3-0-6)	✓	✓	✓
20	MTS252	Materials Science	3 (3-0-6)	✓	✓	✓
21	EL171	English Course II	3 (3-0-6)			
22	EL172	English Course III	3 (3-0-6)			
23	EL210	English for Engineering I	3 (3-0-6)			

Students from countries listed in the attachment are excluded from enrolling in EL171, EL172, and EL210

Chemical Engineering (ChE) Program

No	Code	Course Name	Credits	B2-B4	M-D	Remark
1	CHS 211	Organic Chemistry	3(3-0-6)	✓	✓	
2	CHS 241	Material and Energy Balance	3(3-0-6)	✓	✓	
3	CHS 316	Statistics for ChE	3(3-0-6)	✓	✓	
4	CHS 315	Environmental ChE	3(3-0-6)	✓	✓	
5	CHS 331	Che. Reac. Kinetics & Reactor Design	3(3-0-6)	✓	✓	
6	CHS 343	Thermodynamics II	3(3-0-6)	✓	✓	
7	CHS 352	Heat Transfer	3(3-0-6)	✓	✓	
8	CHS 327	Bio-Chemical Technology	3(3-0-6)	✓	✓	
9	CHS 375	Analytical and Instrumental Chemistry	3(3-0-6)	✓	✓	
10	CHS 456	Transport Phenomena	3(3-0-6)	✓	✓	
11	CHS 457	ChE Plant Design	3(3-0-6)	✓	✓	
12	CHS 461	Process Dynamics and Control	3(3-0-6)	✓	✓	

Civil Engineering (CE) Program

No	Code	Course Name	Credits	B2-B4	M-D	Remark
1	CES 201	Engineering Materials	3(3-0-6)	✓	✓	
2	CES 215	Applied Mathematics in CE	3(3-0-6)	✓	✓	
3	CES 361	Surveying	3(2-3-4)	✓	✓	
4	CES 311	Theory of Structures	3(3-0-6)	✓	✓	
5	CES 331	Soil Mechanics	3(3-0-6)	✓	✓	
6	CES 351	Concrete Technology	3(2-3-4)	✓	✓	
7	CES 381	Hydraulics	3(3-0-6)	✓	✓	
8	CES 315	Computational Methods in CE	3(3-0-6)	✓	✓	
9	CES 341	Transportation Engineering and Planning	3(3-0-6)	✓	✓	
10	CES 321	Timber and Steel Design	4(3-3-6)	✓	✓	
11	CES 353	Construction Engineering and Management	3(3-0-6)	✓	✓	
12	CES 414	Finite Element Methods in Engineering	3(3-0-6)	✓	✓	
13	CES 423	Building Design	3(3-0-6)	✓	✓	
14	CES 391	Special Topics in Civil Engineering I	3(3-0-6)	✓	✓	
15	CES 392	Special Topics in Civil Engineering II	3(3-0-6)	✓	✓	

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Industrial Engineering (IE) Program

No.	Code	Course Name	Credits	B2-B4	M-D	Remark
1	IES 201	Industrial Engineering Mathematics	3(3-0-6)	✓	-	
2	IES 312	Method Analysis & Work Meas.	3(3-0-6)	✓	-	
3	IES 321	Operation Research I	3(3-0-6)	✓	-	
4	IES 332	Factory Automation & Control Method	3(3-0-6)	✓	✓	
5	IES 343	Safety Engineering	3(3-0-6)	✓	✓	
6	IES 303	Engineering Management and Cost Analysis	3(3-0-6)	✓	✓	
7	IES 341	Engineering Economy	3(3-0-6)	✓	-	
8	IES 371	Engineering Management	3(3-0-6)	✓	✓	

Mechanical Engineering (ME) Program

No.	Code	Course Name	Credits	B2-B4	M-D	Remark
1	MES 211	Thermofluids	3(3-1-5)	✓	✓	
2	MES 231	Engineering Mechanics	3(3-0-6)	✓	✓	
3	MES 300	Engineering Drawing	3(2-3-4)	✓	✓	
4	MES 311	Thermodynamics	3(3-0-6)	✓	✓	
5	MES 341	Fluid Dynamics	3(3-0-6)	✓	✓	
6	MES 342	Refrigeration and Air Condition	3(3-0-6)	✓	✓	
7	MES 350	Engineering Statics	3(3-0-6)	✓	-	
8	MES 351	Engineering Dynamics	3(3-0-6)	✓	-	
9	MES 371	Material Science for Engineers	3(3-1-5)	✓	✓	
10	MES 352	Mechanics of Machinery	3(3-0-6)	✓	✓	
11	MES 381	Measurements and Instrumentation	3(3-0-6)	✓	✓	
12	MES 383	Hydraulic and Pneumatic Control	3(3-0-6)	✓	-	
13	MES 422	Thermal System Design	3(3-0-6)	✓	✓	
14	MES 444	Renewable Energy Resources	3(3-0-6)	✓	✓	
15	MES 462	Turbomachinery	3(3-0-6)	✓	✓	
16	MES 473	Energy Economics	3(3-0-6)	✓	✓	
17	MES 481	Power Plant Engineering	3(3-0-6)	✓	✓	

Electronics and Communication Engineering (EC) program

No.	Code	Course Name	Credits	B2-B4	M-D	Remark
1	ECS 203	Basic Electrical Engineering	3 (3-0-6)	✓	-	
2	ECS 213	Electrical Engineering Mathematics	3 (3-0-6)	✓	-	
3	ECS 216	Circuit Analysis	3 (3-0-6)	✓	-	
4	ECS 451	Data Comm.	3 (3-0-6)	✓	✓	
5	ECS 381	Feedback Control Systems	3 (3-0-6)	✓	-	
6	ECS 315	Probability and Random Processes	3 (3-0-6)	✓	-	
7	ECS 332	Principle of Communications	3 (3-0-6)	✓	-	
8	ECS 315	Probability and Random Processes	3 (3-0-6)	✓	-	
9	ECS 322	Electronic Circuits II	3 (3-0-6)	✓	-	
10	ECS 456	Optical Communications	3 (3-0-6)	✓	✓	
11	ECS 442	Microwave Principles	3 (3-0-6)	✓	✓	
12	ECS 371	Digital Circuits	3 (3-0-6)	✓	-	

Information and Technology (IT) Program

No.	Code	Course Name	Credits	B2-B4	M-D	Remark
1	ITS 201	Discrete Mathematics	3(3-0-6)	✓	✓	
2	ITS 221	Data Structures and Algorithms	3(3-0-6)	✓	✓	
3	ITS 323	Introduction to Data Communications	3(3-0-6)	✓	✓	
4	ITS 322	Database Systems	3(3-0-6)	✓	✓	
5	ITS 336	Artificial Intelligence	3(3-0-6)	✓	-	
6	ITS 341	Management Information Systems	3(3-0-6)	✓	✓	
7	ITS 344	Web and Business Application Development	3(3-0-6)	✓	✓	
8	ITS 413	Internet Technologies and Applications	3(3-0-6)	✓	✓	
9	ITS 441	Accounting Information Systems	3(3-0-6)	✓	✓	
10	ITS 442	Entrepreneurship for IT Business Development	3(3-0-6)	✓	✓	

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Computer Engineering (CPE) program

No.	Code	Course Title	Credits	B2-B4	M-D	Remark
1	CSS 224	Computer Architectures	3(3-0-6)	✓	-	
2	CSS 226	Scientific Computing	3(3-0-6)	✓	-	
3	CSS 321	Theory of Computation	3(3-0-6)	✓	-	
4	CSS 331	Fundamentals of Data Communications	3(3-0-6)	✓	-	
5	CSS 433	Computer Vision	3(3-0-6)	✓	✓	
6	CSS 434	Knowledge Representation and Reasoning	3(3-0-6)	✓	✓	
7	CSS 442	Computer Interfacing	3(3-0-6)	✓	✓	
8	CSS 444	Wireless Networks	3(3-0-6)	✓	✓	

Engineering Management (EM) program

No	Code	Course Name	Credits	B2-B4	M-D	Remark
1	MTS 211	Principles of Business	3(3-0-6)	✓	✓	For non-business student
2	MTS 252	Material Science	3(3-0-6)	✓	-	
3	MTS 232	Production and Operations Management.	3(3-0-6)	✓	-	
4	MTS 311	Fundamental Financial Accounting	3(3-0-6)	✓	-	
5	MTS 334	Applications of Business Statistics	3(3-0-6)	✓	-	
6	MTS 351	Management Systems Optimization	3(3-0-6)	✓	-	
7	MTS 381	Business Information Systems	3(3-0-6)	✓	-	
8	MTS 233	Introduction to Supply Chain Management	3(3-0-6)	✓	✓	
9	MTS 403	Management Technology Seminar	1(0-3-0)	✓	-	For students from HRW (1-year-program) only
10	MTS 412	Business Finance	3(3-0-6)	✓	✓	
11	MTS 431	Facility Location and Layout Planning	3(3-0-6)	✓	-	
12	MTS 481	Business Process Simulation	3(3-0-6)	✓	✓	

Management Technology (MT) program

No.	Code	Course Name	Credits	B2-B4	M-D	Remark
1	MTS 211	Principles of Business	3(3-0-6)	✓	✓	For non-business student
2	MTS 231	Statistical Method for Managers	3(3-0-6)	✓	-	
3	MTS 254	Introduction to Management Science	3(3-0-6)	✓	-	
4	MTS 335	Enterprise Planning and Control Systems	3(3-0-6)	✓	✓	
5	MTS 337	Transportation and Logistics Management	3(3-0-6)	✓	✓	
6	MTS 340	Introduction to Inventory Management	3(3-0-6)	✓	✓	
7	MTS 312	Principles of Marketing	3(3-0-6)	✓	-	
8	MTS 313	Organizational Behavior	3(3-0-6)	✓	-	
9	MTS 383	E-Business	3(3-0-6)	✓	✓	
10	MTS 394	Introduction to Research Methodology in Management Technology	3(3-0-6)	✓	✓	
11	MTS 403	Management Technology Seminar	1(0-3-0)	✓	-	For students from HRW (1-year-program) only
12	MTS 411	Management Accounting	3(3-0-6)	✓	-	
13	MTS 451	Project Management	3(3-0-6)	✓	-	

Logistics and Supply Chain Systems Engineering (LSCSE) Program (Graduate courses)

No	Code	Course Name	Credits	B2-B4	M-D	Remark
1	SE 600	Decision Making and Optimization	3 (3-0-9)	-	✓	
2	SE 602	Production Logistics	3 (3-0-9)	-	✓	
3	SE 611	Procurement Logistics	3 (3-0-9)	-	✓	

Students from countries listed below are excluded from enrolling in EL171, EL172, and EL210.

Africa

Botswana
Cameroon
Ethiopia
Eritrea
The Gambia
Ghana
Kenya
Lesotho
Liberia
Malawi
Mauritius
Namibia
Nigeria
Rwanda
Seychelles
Sierra Leone
South Africa
South Sudan
Sudan
Swaziland
Tanzania
Uganda
Zambia
Zimbabwe

Americas

Antigua and Barbuda
The Bahamas
Barbados
Belize
Canada
Dominica
Grenada
Guyana
Jamaica
Saint Kitts and Nevis
Saint Lucia
Saint Vincent and the Grenadines
Trinidad and Tobago
United States
Argentina

Asia

India
Pakistan
Philippines
Singapore
Malaysia

Australia/Oceania

Australia
Fiji
Kiribati
Marshall Islands
Federated States of Micronesia
Nauru
New Zealand
Palau
Papua New Guinea
Samoa
Solomon Islands
Tonga
Tuvalu
Vanuatu

Europe

Ireland
Malta
United Kingdom
Netherlands
Denmark
Sweden
Norway
Finland
Luxembourg
Austria
Germany
Poland
Belgium
Switzerland
Portugal
Czech Republic
Serbia
Hungary
Romania