Due autom	Information
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 Academic Program:
 (334 new curriculum) B.Eng. in Systems Engineering and Engineering Management

 Academic Year:
 2023

Select Language: English

Study Scheme Learning Outcomes

Study Scheme

Systems Engineering and Engineering Management Applicable to students admitted in 2023-24

	the are required to complete a minimum of 75 units of courses as follows:	Units
1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ ESTR1006	9
2.	Foundation Courses (all courses in group (a), one course from group (b), and one course from group (c) are required):	18
a) b)	ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ ESTR2020, MATH1510[a], SEEM2440/ESTR2500 Programming Courses: CSCI1120/ESTR1100, CSCI1130/ ESTR1102	
c)	Other Courses[b][c]: ENGG1310/ESTR1003, ENGG2720/ ESTR2014, ENGG2740/ESTR2016, PHYS1003, 1110, SEEM2460/ESTR2540	
a)	Required Courses: CSCl2040#, CSCl2100#/ESTR2102, SEEM2420, 2602, 3410, SEEM3440/ESTR3500, SEEM3450/ESTR3502, SEEM3550/	24
b)	ESTR3506, SEEM3650/ESTR3516 Research Component Courses[d]: SEEM4998, 4999	6
	Elective Courses: AIST3510#/SEEM3510, CSCI4140#, ENGG1820, FTEC4001#, 4002#, 4005#, 4007#, IERG4210#, MKTG2010#, SEEM2520, 3430, SEEM3460/ESTR3504, SEEM3490, 3500, 3580, SEEM3590/ESTR3509, SEEM3620/ESTR3514, SEEM3630/ESTR3510, SEEM3680/ESTR3512, SEEM4540, 4570, 4630, 4670, SEEM4720/ESTR4506, SEEM4730/ESTR4508, SEEM4750/ESTR4510, SEEM4760/ESTR4512	18
There Analy orres pecia	ns of Specialization are two streams: Business Information Systems, and Decision tics. Students choosing a stream should take at least six courses from the ponding list for their chosen stream. Students who do not wish to lize in any of the two streams should follow a study scheme devised ne advice of the academic advisers of the Department.	
a)	Business Information Systems Required Courses (6 units): SEEM3430, 4540 Elective Courses (12 units):	
	AIST3510/SEEM3510, CSCI4140, ENGG1820, FTEC4001, 4005, 4007, IERG4210, SEEM3460/ESTR3504, SEEM3490,	
b)	SEEM3680/ESTR3512, SEEM4570, 4630 Decision Analytics	
(b)	SEEM3680/ESTR3512, SEEM4570, 4630 Decision Analytics Required Courses (6 units): SEEM3620/ESTR3514, SEEM4760/ESTR4512 Elective Courses (12 units): ENGG1820, FTEC4002, 4005, MKTG2010, SEEM2520, 3500,	
(b)	SEEM3680/ESTR3512, SEEM4570, 4630 Decision Analytics Required Courses (6 units): SEEM3620/ESTR3514, SEEM4760/ESTR4512 Elective Courses (12 units): ENGG1820, FTEC4002, 4005, MKTG2010, SEEM2520, 3500, 3580, SEEM3590/ESTR3509, SEEM3630/ESTR3510, SEEM4630, 4670, SEEM4720/ESTR4506, SEEM4730/ESTR4508, SEEM4750/	
b)	SEEM3680/ESTR3512, SEEM4570, 4630 Decision Analytics Required Courses (6 units): SEEM3620/ESTR3514, SEEM4760/ESTR4512 Elective Courses (12 units): ENGG1820, FTEC4002, 4005, MKTG2010, SEEM2520, 3500, 3580, SEEM3590/ESTR3509, SEEM3630/ESTR3510, SEEM4630,	75

- i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and at least 6 units of courses at 3000 or 4000 level[g]
- 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[h]

[a]

Explanatory Notes:

- ENGG, ESTR and SEEM courses at 2000 and above level as well as those labeled 1 as # will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package and Foundation courses.
- 2. Full exemption from the qualifying examination will be granted by the Chartered Institute of Logistics and Transport in Hong Kong (CILTHK) to graduates with successful completion of courses MKTG2010, SEEM2520, SEEM3620/ESTR3514 and SEEM4750/ESTR4510 plus a final year project in transport/logistics.
 - Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics i) Extended Modules I or II are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510. ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II
 - are required to take MATH1020 concurrently with MATH1510.
 - Students who fail MATH1510 in Term 1 will have to retake the course in iii) Term 2. The pre-assigned course, ENGG1130/ESTR1006, will also be dropped.
- If students choose a Physics course from this group, the course shall be taken in [b] accordance with students' HKDSE results or placement test results as follows:
 - Students who have attained Level 4 or above in HKDSE Mathematics i) (Compulsory Part) AND Level 4 or above in Physics or Level 5 or above Combined Science with Physics Component shall take in ENGG1310/ESTR1003 or PHYS1110.
 - ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003.
 - iii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who pass the placement test shall take ENGG1310/ESTR1003 or PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003.
- Students are recommended to take SEEM2460/ESTR2540.
- [c] [d] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for SEEM4998 and 4999.
- Details of the entrance and coursework requirements, and declaration procedures for [e] the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- Students can use up to 9 units of courses which have been taken to fulfill the [f] requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE Stream. Item 3(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses [g] at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [h] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern	Units
First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510 Major Elective(s):	333
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ ESTR1006	6
	Major Required: 1 Foundation course Major Elective(s):	2
Second Year of Attendance	1 st term Major Required: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, SEEM2440/ESTR2500 Major Elective(s):	11
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ ESTR2020, SEEM2420, 2602 Major Elective(s):	9
Third Year of Attendance	1 st term Major Required: CSCI2040, SEEM3410, SEEM3440/ ESTR3500	8
	Major Elective(s): 1 course	3
	2 nd term Major Required: SEEM3550/ESTR3506, SEEM3650/ ESTR3516	6
	Major Elective(s): 1 course	3
Fourth Year of Attendance	1 st term Major Required: SEEM4998 Major Elective(s): 2 courses	3
	$\frac{2^{nd} \text{ term}}{2^{nd} \text{ term}}$	6

	Major Required: SEEM5430/ES1K5302, SEEM4999 Major Elective(s): 2 courses	6
	Total (including Faculty Package):	75
	Programme Requirement (for Associate Degree or Higher E ed to senior-year places)	Diploma holde
	s are required to complete a minimum of 55 units of courses as follow	76.
		Units
1.	Faculty Package: ENGG1110/ESTR1002	3
2.	Foundation Mathematics Courses: ENGG2760/ESTR2018, ENGG2780/ESTR2020	4
3. (a)	Required Courses: CSCI2040#, CSCI2100#/ESTR2102, SEEM2420, 2602, 3410, SEEM3440/ESTR3500, SEEM3450/ESTR3502, SEEM3550/	24
(b)	ESTR3506, SEEM3650/ESTR3516 Research Component Courses[a]: SEEM4998, 4999	6
4.	Elective Courses: AIST3510#/SEEM3510, CSCI4140#, ENGG1820, FTEC4001#, 4002#, 4005#, 4007#, IERG4210#, MKTG2010#, SEEM2520, 3430, SEEM3460/ESTR3504, SEEM3490, 3500, 3580, SEEM3590/ESTR3509, SEEM3620/ESTR3514, SEEM3630/ ESTR3510, SEEM3680/ESTR3512, SEEM4540, 4570,4630, 4670, SEEM4720/ESTR4506, SEEM4760/ESTR4508, SEEM4750/ESTR4510, SEEM4760/ESTR4512	18
a)	Business Information Systems Required Courses (6 units): SEEM3430, 4540 Elective Courses (12 units): AIST3510/SEEM3510, CSCI4140, ENGG1820, FTEC4001, 4005,	
(b)	A007, IERG4210, SEEM3460/ESTR3504, SEEM3490, SEEM3680/ESTR3512, SEEM4570, 4630 Decision Analytics	
(0)	Required Courses (6 units): SEEM3620/ESTR3514, SEEM4760/ESTR4512 Elective Courses (12 units): ENGG1820, FTEC4002, 4005, MKTG2010, SEEM2520, 3500,	
	ENGG1820, F1EC4002, 4005, MK1G2010, SEEM2520, 5500, 3580, SEEM3590/ESTR3509, SEEM3630/ESTR3510, SEEM4630, 4670, SEEM4720/ESTR4506, SEEM4730/ ESTR4508, SEEM4750/ESTR4510	
	Total:	55
	ion to fulfilling the above Major Programme Requirement, students r ves by taking the following stream offered by the Faculty:	nay also challer
Elective	ering Leadership, Innovation, Technology and Entrepreneurship (ELIT c Courses: s of courses[c]:	TE) Stream[b]
i) ii)	12 units of ESTR courses of which at most 6 units of courses at 1 and at least 6 units of courses at 3000 or 4000 level[d] 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM	
,	level[e]	- eourses at 50
Explana 1.	ntory Notes: ENGG, ESTR and SEEM courses at 2000 and above level as well a	as those labeled
2.	# will be included in the calculation of Major GPA for hono excluding courses in Faculty Package and Foundation Mathematics' Full exemption from the qualifying examination will be granted	ours classificatio courses.
	Institute of Logistics and Transport in Hong Kong (CILTHK) successful completion of courses MKTG2010, SEEM2520, SEE and SEEM4750/ESTR4510 plus a final year project in transport/logi	to graduates w M3620/ESTR35

- Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- Students can use up to 9 units of courses which have been taken to fulfill the [c] requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE

Unite

- Stream. Item 3(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- [d] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [e] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern (for Associate Degree or Higher Diploma holders admitted to senior-year places)	Units
First Year of	1 st term	_
Attendance	Faculty Package: ENGG1110/ESTR1002	3
	Major Required: CSCI2040, ENGG2760/ESTR2018	4
	Major Elective(s): 1 course	3
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ ESTR2020, SEEM2420, 2602, SEEM3550/ESTR3506	12
	Major Elective(s): 1 course	3
Second Year of Attendance	1 st term Major Required: SEEM3410, SEEM3440/ESTR3500, SEEM4998	9
	Major Elective(s): 2 courses	6
	2 nd term Major Required: SEEM3450/ESTR3502, SEEM3650/ ESTR3516, SEEM4999	9
	Major Elective(s): 2 courses	6
	Total (including Faculty Package):	55

Bachelor of Engineering (Systems Engineering and Engineering Management) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option

<u>1st Degree: Bachelor of Engineering (Systems Engineering and Engineering Management)</u>

Major Programme Requirement

Students are required to complete a minimum of 75 units of courses as follows:

1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ ESTR1006	Units 9
2.	Foundation Courses (all courses in group (a), one course from group (b), and one course from group (c) are required):	18
(a)	ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ ESTR2020, MATH1510[a], SEEM2440/ESTR2500	
(b)	Programming Courses: CSCI1120/ESTR1100, CSCI1130/ESTR1102	
(c)	Other Courses[b][c]: ENGG1310/ESTR1003, ENGG2720/ESTR2014, ENGG2740/ESTR2016, PHYS1003, 1110, SEEM2460/ESTR2540	
3.	Required Courses:	
(a)	CSCI2040#, CSCI2100#/ESTR2102, SEEM2420, 2602, 3410, SEEM3440/ESTR3500, SEEM3450/ESTR3502, SEEM3550/ ESTR3506, SEEM3650/ESTR3516	24
(b)	Research Component Courses[d]: SEEM4998, 4999	6
4.	Elective Courses: AIST3510#/SEEM3510, CSCI4140#, ENGG1820, FTEC4001#, 4002#, 4005#, 4007#, IERG4210#, MKTG2010#, SEEM2520, 3430, SEEM3460/ESTR3504, SEEM3490, 3500, 3580, SEEM3590/ESTR3509, SEEM3620/ESTR3514, SEEM3630/ ESTR3510, SEEM3680/ESTR3512, SEEM4540, 4570, 4630, 4670, SEEM4720/ESTR4506, SEEM4730/ESTR4508, SEEM4750/ ESTR4510, SEEM4760/ESTR4512	18
There Analy the co	ms of Specialization are two streams: Business Information Systems, and Decision tics. Students choosing a stream should take at least six courses from rresponding list for their chosen stream. Students who do not wish to ligate are used the stream a chould follow to study cohere deviced	

specialize in any of the two streams should follow a study scheme devised with the advice of the academic advisers of the Department.
(a) Business Information Systems Required Courses (6 units):

SEEM3430, 4540

(b)	AIST35 4007, SEEM3 Decisio Require SEEM3 Elective ENGG	e Courses (12 units): 510/SEEM3510, CSCI4140, ENGG1820, FTEC4001, 4005, IERG4210, SEEM3460/ESTR3504, SEEM3490, 3680/ESTR3512, SEEM4570, 4630 on Analytics ed Courses (6 units): 3620/ESTR3514, SEEM4760/ESTR4512 e Courses (12 units): 1820, FTEC4002, 4005, MKTG2010, SEEM2520, 3500,
		Total: 75
		fulfilling the above Major Programme Requirement, students may also selves by taking the following stream offered by the Faculty:
Electiv	ering Lea e Course ts of cour	
i)	12 unit	s of ESTR courses of which at most 6 units of courses at 1000 or 2000
ii)		nd at least 6 units of courses at 3000 or 4000 level[g] s of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at wel[h]
Explaı	atory No	
1.	as # wi	, ESTR and SEEM courses at 2000 and above level as well as those labeled ill be included in the calculation of Major GPA for honours classification, ng courses in Faculty Package and Foundation courses.
2.	Institute first de SEEM3	emption from the qualifying examination will be granted by the Chartered e of Logistics and Transport in Hong Kong (CILTHK) to graduates of the egree with successful completion of courses MKTG2010, SEEM2520, 8620/ESTR3514 and SEEM4750/ESTR4510 plus a final year project in
3.		rt/logistics. ts are advised to take some courses of the University Core Requirements or
r.1	Major c	courses in summer sessions to reduce their course load in regular terms.
[a]	i)	Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510.
	ii)	JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510.
	iii)	Students who fail MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130/ESTR1006, will also be
[b]	If stude	dropped. ents choose a Physics course from this group, the course shall be taken in
		ance with students' HKDSE results or placement test results as follows: Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>or</u> Level 5 or above
		in Combined Science with Physics Component shall take ENGG1310/ESTR1003 or PHYS1110.
	ii)	Students with HKDSE results but did not attain the academic levels as
	iii)	stated in (i) shall take PHYS1003. Students without HKDSE results shall sit for the placement test arranged
		by the Department of Physics. Students who pass the placement test shall take ENGG1310/ESTR1003 or PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003.
[c]		ts are recommended to take SEEM2460/ESTR2540.
[d]		ts who have declared to specialize in the ELITE Stream will be required to te 6 units of ESTR4998 and 4999 to substitute for SEEM4998 and 4999.
e]	Details	of the entrance and coursework requirements, and declaration procedures ne ELITE Stream can be found at the ELITE website
	(<u>www.</u> e	erg.cuhk.edu.hk/elite).
	Non-EI Student	LITE Engineering students may be allowed to take ESTR courses. ts are required to seek approval from their respective Major Programmes
	for using	ng ESTR courses taken to fulfill the Major Programme Requirement.
[f]		are available at the ELITE website. ts can use up to 9 units of courses which have been taken to fulfill the
	require	ments of items 1 to 4 above to fulfill the elective requirements of the
		Stream. Item 3(b) Research Component Courses will not be included in units. A full list of ESTR courses is available at the ELITE website.
[g]	Student	ts can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM
	to the a	at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject pproval of the Stream Director and the Associate Dean (Education).
[h]	The red require	quirement of at least 3 units of Engineering courses at 5000 level is a ment for the ELITE Stream only. It should not be interpreted as a
	require	ment of the Major Programme.

Requirements for admission to the 2nd degree programme 1. Admission to the second degree programme is guaranteed if students have:

- i.
- fulfilled all graduation requirements of the first degree programme; Major GPA of at least 3.0 upon completion of studies of the first degree

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		 programme (ERG); and taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 and mutually recognized courses by both the Engineering and Business Administration Faculties. In addition, students should have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. For details of the mutually recognized courses, please refer to the explanatory notes on mutual recognition or exclusion. 	
		Students who do not satisfy the above requirements may still apply for admission to the second degree programme which has discretion to judge the suitability of the students for studying for the second degree programme through assessments like conducting interview, considering the recommendation from the first degree programme etc.	
		Upon fulfillment of the requirements of the first degree programme, students can still choose to or not to pursue the second degree programme. If a student decides not to pursue the second degree programme but has fulfilled the requirements of a relevant BBA minor programme, a minor of that BBA programme would be awarded.	
	<u>2nd De</u>	egree: Bachelor of Business Administration (Integrated BBA Programme)	
	Major	Programme Requirement	
	Studen	ts are required to complete a minimum of 56 units of courses as follows: Units	
	1.	Faculty Package: 9 DOTE[DSME]1030, 1040, MGNT1020	
	2.	Required Courses: 32-33 ACCT2111, 2121, 2151 or 3151[a], DOTE[DSME]2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010, MKTG2010 IBBA3040, MGNT2511, 2512, 2611, 4010,	
	3.	Elective Courses (Concentration): 15-18 Students must choose at least one concentration and take five or six courses among the courses prescribed under respective concentration area as follows:	
	(a)	Business Economics (i) DOTE[DSME]2021, 4110; (ii) two courses selected from: DOTE[DSME]3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and (iii) one DOTE[DSME] course at 3000 or above level, excluding the courses those taken for fulfillment of	
	(b)	requirement (i) or (ii) Business Analytics (i) DOTE[DSME]2021, 2040, 4020; (ii) one course selected from: DOTE[DSME]4070, 4240, 4260; and (iii) one course selected from: DOTE[DSME]3030, 4030,	
	(c)	4110, 4220, 4280, MKTG4120 Finance (i) DOTE[DSME]2021 or FINA2020; and (ii) 15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses	
	(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and (ii) two courses selected from: MGNT3080, 4070, 4090, 4130, 4160, 4270, 4570, 4711, 4712, 4713	
	(e)	Management of International Business (i) MGNT3580, 4150; and (ii) four courses selected from: MGNT3010, 3080, 3100, 4080, 4090, 4110, 4130, 4140, 4510, 4530, 4540, 4550, 4570	
	(f)	Human Resource Management (i) MGNT2040, 3010; and (ii) four courses selected from: MGNT3040, 3060, 3090, 3100, 4050, 4060, 4080, 4110, 4130, 4140	
	(g)	Marketing (i) MKTG3010, 3020, 3030, 4040; and (ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200	
	(h)	Hold,	
	(i)	General Business (i) 3 units of DOTE[DSME]/FINA/MGNT/MKTG courses	
		 at 2000 or above level; and (ii) 12 units of DOTE[DSME]/FINA/MGNT/MKTG courses at 3000 or above level, excluding the courses taken for fulfillment of requirement(i), with no more than three 1-unit FINA courses 	
I		Total: 56-60	I

- Explanatory Notes: ACCT/DOTE[DSME]/FINA/IBBA/MGNT/MKTG courses at 2000 and above 1. level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification.
- 2. Double concentrations in Marketing and Big Data and Quantitative Marketing are not allowed.
- DOTE[DSME]2021 and the associated units can be used to satisfy concentration 3. requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration
- requirements of double concentrations within (e) and (f). 4. Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to
- (h). 5. Students claiming Entrepreneurship Concentration are not allowed to declare Minor
- in Entrepreneurship and Innovation.
- [a] ACCT2151 and ACCT3151 are mutually exclusive. Students who would like to pursue a career in accounting profession are advised to take ACCT3151 instead of ACCT2151.
- [] Subject area code "DSME" changed to "DOTE" with effect from 2024-25.

Explanatory Notes on Mutual Recognition or Exclusion:

- DOTE[DSME]2011 and the associated units can be exempted from the 1. requirement of the second degree by successfully completing ENGG2450/ESTR2005 OR ENGG2760/ESTR2018 and ENGG2780/ESTR2020.
- 2. DOTE[DSME]2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.
- 3. DOTE[DSME]4120 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3430.
- 4. FINA3010 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 5. MKTG2010 and the associated units can be used to satisfy both the requirements of the first and second degrees.

	1 Course Pattern 1 st degree: Bachelor of	Units	2 nd degree: Bachelor of	Units
	1 ^{sh} degree: Bachelor of Engineering (Systems Engineering and Engineering Management)	Cint	2 th degree: Bachelor of Business Administration (Integrated BBA Programme)	omt
First Year of	1 st term		1 st term	
Attendance	Faculty Package: ENGG1110/ ESTR1002	3	Faculty Package: Major Required:	
	Major Required: MATH1510	3	Major Elective(s):	
	Major Elective(s):			
	2 nd term Faculty Package: ENGG1120/ ESTR1005, ENGG1130/	6	2 nd term Faculty Package: Major Required:	
	ESTR1006 Major Required: 1 Foundation course	2	Major Elective(s):	
<u> </u>	Major Elective(s):			
Second Year of Attendance	1 st term Major Required: CSCI1120/ 1130/ESTR1100/1102,	11	1 st term Faculty Package: DOTE[DSME]1030	3
	ENGG2440/ESTR2004, ENGG2760/ESTR2018, SEEM2440/ESTR2500 Major Elective(s):		Major Required: Major Elective(s):	
	2 nd term Major Required: CSCI2100/ ESTR2102, ENGG2780/ ESTR2020, SEEM2420, 2602	9	2 nd term Faculty Package: DOTE[DSME]1040, MGNT1020 Major Required:	6
	Major Elective(s):		Major Elective(s):	
Third Year of Attendance	1 st term Major Required: CSCI2040, SEEM3410, SEEM3440/ ESTR3500	8	1 st term Major Required: Major Elective(s):	
	Major Elective(s): 2 courses	6		
	2 nd term Major Required: SEEM3550/ ESTR3506, SEEM3650/	6	2 nd term Major Required: FINA2010, DOTE[DSME]2011	7
	ESTR3516 Major Elective(s): 1 course	3	Major Elective(s):	
Fourth Year of Attendance	1 st term Major Required: SEEM4998	3	1 st term Major Required: ACCT2111,	6
Ацепцапсе	Major Elective(s): 3 courses	9	MGNT2512, 2611 Major Elective(s):	
	2 nd term	6	2 nd term	7

Maior Required: SEEM3450/ 6 Maior Required: ACCT2121. 7 https://cusis.cuhk.edu.hk/psp/CSPRD/EMPLOYEE/HRMS/c/SCC_ADMIN_OVRD_STDNT.SAA_SS_DPR_ADB.GBL?Folder=MYFAVORITES 8/11 Browse Program Information

	Package):		Package):	
	Total (including Faculty	75	Total (including Faculty	56-60
			Major Elective(s): 2-3 courses	6-9
			Major Required: MGNT4010	3
			2 nd term	
			Major Elective(s): 2 courses	6
			2051, IBBA3040	
			3151, DOTE[DSME]2030,	
Attendance			Major Required: ACCT2151/	9-10
Fifth Year of			1 st term	
	Major Elective(s):		Major Elective(s): 1 course	3
	ESTR3502, SEEM4999		MKTG2010, MGNT2511	2

Minor Programme Title

gistics	and Supply Chain Managemen	t		
Mino	or Programme Requirement			
	ents are required to complete a or above level, as follows:	minimum of 18 units of	courses, with at	least 6 units at
	·			Units
1.	Required Courses: SEEM2420, SEEM3620/ES	TD2514 SEEM4750/EST	P4510	9
	3EEWI2420, 3EEWI3020/E3	1K5514, SEEM4750/E51	R4510	2
2.	Elective Courses:			
	Any 3 courses from the follo	owing:		9
	SEEM3440/ESTR3500,	SEEM3450/ESTR3502,	SEEM3500,	
	SEEM3630/ESTR3510,	SEEM3650/ESTR3516,	SEEM4670,	
	SEEM4760/ESTR4512			
			Total:	18

Explanatory Note: 1. This Min

This Minor Programme is not applicable to students who major in Systems Engineering and Engineering Management and the Bachelor of Engineering (Systems Engineering and Engineering Management) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option; and students in the Mathematics-Multidisciplinary Stream of Mathematics Major Programme.

	Course List				
Course Code	Course Title	Unit(s)			
ENGG1310	Engineering Physics: Electromagnetics, Optics and	3			
	Modern Physics				
ENGG1820	Engineering Internship	1			
ENGG2440	Discrete Mathematics for Engineers	3			
ENGG2720	Complex Variables for Engineers	2			
ENGG2740	Differential Equations for Engineers	2			
ENGG2760	Probability for Engineers	2			
ENGG2780	Statistics for Engineers	2			
ESTR1003	Engineering Physics: Electromagnetics, Optics and	3			
	Modern Physics				
ESTR2004	Discrete Mathematics for Engineers	3			
ESTR2014	Complex Variables for Engineers	2			
ESTR2016	Differential Equations for Engineers	2			
ESTR2018	Probability for Engineers	2			
ESTR2020	Statistics for Engineers	2			
ESTR2500	Engineering Economics	3			
ESTR2540	Introduction to Data Science	3			
ESTR3500	Operations Research II	3			
ESTR3502	Engineering Innovation and Entrepreneurship	3			
ESTR3504	Computer Processing Concepts	3			
ESTR3506	Fundamentals in Information Systems	3			
ESTR3509	Investment Science	3			
ESTR3510	Service Management	3			
ESTR3512	Technology, Consulting and Analytics in Practice	3			
ESTR3514	Introduction to Logistics and Supply Chain	3			
	Management				
ESTR3516	Fundamentals in Decision and Data Analytics	3			
ESTR4506	Computational Finance	3			
ESTR4508	Statistics Modeling and Analysis in Financial	3			
	Engineering				
ESTR4510	Advances in Logistics and Supply Chain Management	3			
ESTR4512	Stochastic Models for Decision Analytics	3			
SEEM2420	Operations Research I	3			
SEEM2440	Engineering Economics	3			
SEEM2550	Differential Equations	3			
SEEM2460	Introduction to Data Science	3			
SEEM2520	Fundamentals in Financial Engineering	3			
SEEM2602	Systems Engineering Practicum	1			
SEEM3410	System Simulation	3			
SEEM3430	Information Systems Analysis and Design	3			

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SEEMI3440	Operations Research II	3
SEEM3450	Engineering Innovation and Entrepreneurship	3
SEEM3460	Computer Processing Concepts	3
SEEM3470	Dynamic Optimization and Applications	3
SEEM3490	Information Systems Management	3
SEEM3500	Quality Control and Management	3
SEEM3510	Human and Computer Interaction	3
SEEM3550	Fundamentals in Information Systems	3
SEEM3580	Risk Analysis for Financial Engineering	3
SEEM3590	Investment Science	3
SEEM3620	Introduction to Logistics and Supply Chain	3
	Management	
SEEM3630	Service Management	3
SEEM3650	Fundamentals in Decision and Data Analytics	3
SEEM3680	Technology, Consulting and Analytics in Practice	3
SEEM4540	Open Systems for E-Commerce	3
SEEM4570	System Design and Implementation	3
SEEM4630	E-Commerce Data Mining	3
SEEM4670	Service Systems	3
SEEM4720	Computational Finance	3
SEEM4730	Statistics Modeling and Analysis in Financial	3
	Engineering	
SEEM4750	Advances in Logistics and Supply Chain Management	3
SEEM4760	Stochastic Models for Decision Analytics	3
SEEM4998	Final Year Project I	3
SEEM4999	Final Year Project II	3

Study Scheme Learning Outcomes

Learning Outcomes

Major Programme:

Through the course of their studies, SEEM students will have developed:

- The ability to apply knowledge of mathematics, science, and engineering appropriate to the (1)degree discipline (K/S);
- (2)The ability to design and conduct experiments, as well as to analyze and interpret data (K/S)
- (3) The ability to design a system, component, or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability (K/S);
- The ability to function in multi-disciplinary teams (S/V) ; (4)
- (5) The ability to identify, formulate, and solve engineering problems (K/S);
- (6) The understanding of professional and ethical responsibility (V);
- The ability to communicate effectively (S); (7)
- The ability to understand the impact of engineering solutions in a global and societal context, (8)especially the importance of health, safety and environmental considerations to both workers and the general public (V);
- (9)The ability to stay abreast of contemporary issues (S/V)
- (10)The ability to recognize the need for, and to engage in life-long learning (V);
- The ability to use the techniques, skills, and modern engineering tools necessary for (11)engineering practice appropriate to the degree discipline (K/S);
- (12)The ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations (K/S/V);
- The ability to apply the skills relevant to the discipline of operations research and (13)information technology and their applications in engineering and managerial decision making, especially in financial services, logistics and supply chain management, business information systems, and service engineering and management (K/S) .

K = Knowledge outcomes S = Skills outcomes V = Values and attitude outcomes

Minor Programme:

Upon completion of their studies, LSCM students will have developed:

- (1)An understanding of the role of logistics and supply chain management in modern economics:
- (2) The ability to apply knowledge of mathematics, science, and engineering appropriate to logistics and supply chain management;
- The ability to identify, formulate, and solve problems in logistics and supply chain (3)management;
- (4) The ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to logistics and supply chain management;
- (5) The ability to apply the skills relevant to the discipline of logistic and supply chain management in related innovations, such as in the areas of e-commerce, the incorporation of supply chain with techniques of block chain and big data analytics.

Course Information

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