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 Program Information

 Academic Program:
 (334 new curriculum) B.Eng. in Financial Technology

 Academic Year:
 2023

Select Language: English V

Study Scheme Learning Outcomes

Study Scheme

Financial Technology Applicable to students admitted in 2023-24

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Studer	ts are required to complete a minimum of 75 units of courses as follows:	
Studer		Units
1.	Faculty Package:	9
	ENGG1110/ESTR1002, ENGG1120/ESTR1005,	
	ENGG1130/ESTR1006	
2.	Foundation Courses:	13
2.	CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004,	15
	ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a]	
3.	Required Courses:	
3. (a)	CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306,	30
(a)	ECON2011#, FINA2310#, FTEC2101/ESTR2520, FTEC3001, 3002,	50
	SEEM2520#, SEEM3550#/ESTR3506, SEEM3590#/ESTR3509	
(b)	Research Component Courses[b]:	6
(0)	FTEC4998, 4999	0
(c)	Practicum Course:	1
(-)	FTEC2602	-
(d)	Legal Course:	2
、 <i>/</i>	FTEC2001	-
4	Elective Courses	14
4.	Elective Courses: At least 6 units from FTEC4001, 4002, 4003,	14
(a)	At least 6 units from FTEC4001, 4002, 4003, FTEC4004/IERG4004#, FTEC4005, 4006, 4007	
(h)	Courses from at least 3 subject areas[c]:	
(b)	ACCT2111#, AIST4010#/ESTR4140, CSCI2040#, 2120#,	
	CSCI3150#/ESTR3102, CSCI3160#/ESTR3104, CSCI3320#,	
	CSCI4160#/ESTR4104, CSCI4180#/ESTR4106,	
	CSCI4430#/IERG3310#/ESTR3310/ESTR4120, ECON2021#[d],	
	ENGG1820, FINA3020#, 3030#, 3070#, 3210#, 4010#,	
	IERG4080#/ESTR4312, IERG4210#, MKTG4120#, SEEM3410#,	
	SEEM3450#/ESTR3502, SEEM3570#/ESTR3508, SEEM3580#,	
	SEEM4730#/ESTR4508	
		75
	ition to fulfilling the above Major Programme Requirement, students ma	y also challenge
nemse	elves by taking the following stream offered by the Faculty:	
Engin	eering Leadership, Innovation, Technology and Entrepreneurship (ELI	TE) Stream[e]
	re Courses:	_
	ts of courses[f]:	
i)	12 units of ESTR courses of which at most 6 units of courses at 1000 o	r 2000 level and
	at least 6 units of courses at 3000 or 4000 level[g]	
ii)	3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM c	ourses at 5000
	level[h]	
Explar	natory Notes:	
1.	ENGG, ESTR and FTEC courses at 2000 and above level as well as th	ose labeled as #
	will be included in the calculation of Major GPA for honours classific	
	courses in the Faculty Package and Foundation Courses.	,
[a]	i) Non-JUPAS admittees and JUPAS admittees with HKDS.	E Mathematics
r - 1	Extended Modules I or II are required to attend a Mathematics	
	Students who fail or are absent from the Placement Test will be	
	MATH1020 in the same term when they take MATH1510.	1
	ii) JUPAS admittees without HKDSE Mathematics Extended Mod	lules I or II are
	required to take MATH1020 concurrently with MATH1510.	
	iii) Students who fail MATH1510 in Term 1 will have to retake the co	

- Students who fail MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.
- [b] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for FTEC4998 and 4999. These 6 units cannot be used to fulfill the Elective Courses requirement of the ELITE Stream.

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- [c] ESTR courses will be counted as their reciprocal departmental subject areas.
 [d] Students who intend to pursue the Bachelor of Engineering (Financial Technology) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option should not take the elective course ECON2021 because the required course DSME1040 of the Integrated BBA Programme is not for students who have taken
- ECON2021.
 [e] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (<u>www.erg.cuhk.edu.hk/elite</u>).
 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.
- [f] Students can use up to 9 units of courses which have been taken to fulfill the 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.
- [g] 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).
- [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: Major Required: FINA2310, MATH1510 Major Elective(s):	6
	2 nd term Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9
	Major Required: ECON2011 Major Elective(s):	3
Second Year of Attendance	1 st term Major Required: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, SEEM2520 Major Elective(s):	11
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602 Major Elective(s):	11
Third Year of Attendance	1 st term Major Required: CSCI4130/IERG4130/ESTR4306, FTEC3001 or 3002, SEEM3590/ESTR3509 Major Elective(s):	9
	2 nd term Major Required: FTEC3001 or 3002, SEEM3550/ESTR3506 Major Elective(s): 1 course	6 3
Fourth Year of Attendance	1 st term Major Required: FTEC4998 Major Elective(s): 2 courses	3 6
	2 nd term Major Required: FTEC4999 Major Elective(s): 2 courses	3 5
	Total (including Faculty Package):	75

	Recommended Course Pattern for CUHK students in	Units
	fulfillment of requirements of the DDP with Peking	Onits
	1 0	
	University (PKU) (BSc in Financial Mathematics)	
First Year of	Faculty Package: 2 courses	At least 32 units
Attendance	Major Required: MATH1510	including
(Study at PKU)	University Core: 2 PHED courses	courses to be
Second Year of	Faculty Package: 1 course	transferred to
Attendance	Major Required: CSCI2100/ESTR2102, ECON2011,	CUHK[a]
(Study at PKU)	ENGG2760/ESTR2018, FINA2310, SEEM2520	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	University Core: 2 University GE courses of 4 units (in Areas	
	A and C)[b]	
Third Year of	1 st term[c]	
Attendance	Major Required: CSCI1120/1130/ESTR1100/1102,	9
(Study at	CSCI4130/IERG4130/ESTR4306[d], ENGG2440/ESTR2004	-
CUHK)	University Core: CHLT1001, ELTU1001 or 1002, ENGG1004	9
	2 nd term	
	Major Required: ENGG2780/ESTR2020, FTEC2001[d],	14
	FTEC2101/ESTR2520[f], FTEC2602, FTEC3001 or 3002[d],	
	SEEM3550/ESTR3506[d]	
	University Core: CHLT1002, 0-1 College GE course [d][g], 0-	4
	2 courses from Understanding China and Hong Kong in the	
	Wider Constitutional Order	
1	Summer Session	

	M				Program Informa
Fourth `	Voor of	University Core: 1 UGFH/	UGFN course[d]		3
Attenda	nce	1 st term Major Required: FTEC300)1 or 3002[d], FTEC4	4998[h],	9
(Study a CUHK)		SEEM3590/ESTR3509			
CUHKJ		Major Elective(s): 1 course University Core: ELTU3xx		$rse[d][a] 0_2$	3 5-6
		courses from Understandin			5-0
		Wider Constitutional Order		6	
		2 nd term			
		Major Required: FTEC499 Major Elective(s): 4 course			3 12
		University Core: 1 UGFH/			3
		5		ken at CUHK:	74-75
		Units taken a	at PKU and recogni	·	32
				Total:	106-107 [e][i]
[a]]	Mutual rec	cognition of courses: CUHK	requirement to be fu	lfilled by PKU c	ourses
		0	Ĩ	-	
	CUHK (PKU Courses	
	ENGG11	. 81		Intro to Compu	
	ENGG11 ENGG11	Ü		Advanced Alge Mathematical A	
	ENGG27		U	Probability The	
	MATH15	510 Calculus for Engine		Mathematical A	nalysis I, II
	CSCI210		ice	Data Structures Microeconomic	
	ECON20 FINA231			Corporate Finan	
	SEEM25	20 Fundamental in Fina	ncial Engineering	Introduction to	Financial Math
		udents can take the following			
		he courses and units tow ents of CUHK in Areas A an			
		CUHK before graduation			
]	Full-time	Undergraduate Studies for de	etails.		
Ī	Designat	ted courses offered by	Recommendation	s from OUCF	
	PKU	cu courses onereu by	Recommendations		
	2033530		The course can be		1
		Culture	course of UGEA21 <i>Culture</i> (3 units), at		
			A can be granted.	nd exemption of	5 units in Area
	3032360	2	The course can be		
		Culture	course of UGEA21 Culture (3 units), a		
			A can be granted.	nd exemption of	5 units in Area
	2131110		The course can be	considered for ex	empting 3 units
	1339320	Traditional China The Historical	in Area A. The course can be o	annaidanad fan av	amentina 2 maita
	1559520	Geography of China	in Area A.	considered for ex	empting 5 units
	2431560	American Culture and	The course can be	considered for ex	empting 3 units
	2120200	Society	in Area C.		tin 2 ii
	3130280	Gender Studies	The course can be on in Area C.	considered for ex	empting 3 units
			Due to significant of		
			with UGEC1209 T		
			to Women's and Ge of UGEC1209 shall		irse restriction
	1339180	Global Cultural	The course can be	considered for ex	empting 3 units
		Geography	in Area C.		
	1831990		The course can be o	considered for ex	empting 3 units
[c]	Students t	Communication aking a term load exceedin	in Area C. g the maximum wil	l need to seek a	pproval from the
]	Registrar.	-	-		
		ken at CUHK can be transf			
	Elective C PKU.	ourses of the requirements of	of the Bachelor of Sc	cience in Financia	al Mathematics at
		n to the 5 elective courses, s	students are required	to take another	3 units of courses
i	in order to	fulfil 18 units of Selected	Major Courses of th	e requirements o	f the Bachelor of
		Financial Mathematics at P		on, students need	l to take a total of
		0 units (instead of 106 to 107 1/ESTR2520 Optimization M		IHK can be trans	ferred to fulfill 2
	H HI '/ III	υτωτικές ένα συμπηλαμοπ	memous takell at UU	in can ut tidlls	
[f]]		lajor Core Course of the r			
[f]]	units of N Mathemat	Major Core Course of the r ics at PKU.	equirements of the	Bachelor of Sci	ence in Financial
[f]] [g] /	units of M Mathemat The recor	Major Core Course of the r ics at PKU. nmended course pattern of	equirements of the	Bachelor of Sci	ence in Financial
[f]] [g] ?	units of N Mathemat The recor students' (Major Core Course of the r ics at PKU.	equirements of the f College GE cours	Bachelor of Scie	ence in Financial ly depending on

Thesis of the requirements of the Bachelor of Science in Financial Mathematics at PKU. Students are required to complete at least 50 units of Major courses at CUHK. [i]

	Recommended Course Pattern for PKU students in	Units
	fulfillment of requirements of the DDP with CUHK (BEng	
	in Financial Technology)	
First Year of	Faculty Package: 2 courses	At least 27

https://cusis.cuhk.edu.hk/psp/CSPRD/EMPLOYEE/HRMS/c/CU_CUR_MENU.CU_ATCH_DISPLAY.GBL?PORTALPARAM_PTCNAV=CU_ATCH... 3/11

on

A ++ a	I AM Idance	Major Required: MATH1	510	DIGNIGUT	rogram Inform
	luance ly at PKU)	University Core: 1 PHED			units including courses to be
Second Year of Attendance (Study at PKU)		Faculty Package: 1 course			transferred to
		Major Required: CSCI210 ENGG2760/ESTR2018, F			CUHK[a]
	ly at PKU) I Year of	1^{st} term	II(A2510, SEEWI252)	0	
Attendance		Major Required: CSCI112	20/1130/ESTR1100/11	02.	9
(Stud		CSCI4130/IERG4130/ES	TR4306[b], ENGG244		-
CUHK)		Major Elective(s): 2 cours	ses[c]		6
		2 nd term Major Required: ENGG2' FTEC2101/ESTR2520[d] SEEM3550/ESTR3506[b]	, FTEC2602, FTEC30		14
Found	th Year of	University Core: 1 UGFH	/UGFN course[b]		3
Atten (Stud	idance ly at	1 st term Major Required: FTEC30 SEEM3590/ESTR3509	01 or 3002[b], FTEC4	998[e],	9
CUH	K)	University Core: ELTU3x Understanding China or H Constitutional Order			5-6
		2 nd term			
		Major Required: FTEC49			3
		Major Elective(s): 3 cours University Core: 1 Univer		se[b][g]	9 3
		Understanding China or H			5
		Constitutional Order			
		Units to kor	Units ta at PKU and recogni	iken at CUHK:	61-62 27
		Units taken	at r KU and recogni	Total:	88-89[h]
	CUHK (PKU Courses	
	ENGG11 ENGG11	6,0		Intro to Computi Advanced Algeb	
	ENGG11			Mathematical Argen	
	ENGG27			Probability Theo	
	MATH15		ers	Mathematical An	nalysis I, II
	CSCI210 ECON20		nics	Data Structures Microeconomics	
	ECON70			meroceonomie	
	FINA231	0 Fundamentals of Bu	isiness Finance	Corporate Finan	
	FINA231 SEEM25	20 Fundamental in Fin	ancial Engineering	Introduction to F	ce Tinancial Math
[b]	FINA231 SEEM25 Courses ta Elective C PKU.	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc	Introduction to F its of General Ed ience in Financia	ce 'inancial Math ucation and Fre I Mathematics a
	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order to Science in	20 Fundamental in Fin ken at CUHK can be trans	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of	ce Tinancial Math ucation and Fre l Mathematics a units of course the Bachelor of
[c]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order to Science in 91 to 92 u FTEC210 units of M	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements n to the 5 elective courses, o fulfil 18 units of Selected Financial Mathematics at F	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf	ce financial Math ucation and Fre l Mathematics a units of course the Bachelor o to take a total o cerred to fulfill
[c] [d] [e]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order to Science in 91 to 92 uu FTEC2103 units of M Mathemat FTEC4998 Thesis of t	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements a to the 5 elective courses, b fulfil 18 units of Selected Financial Mathematics at F nits (instead of 88 to 89 uni I/ESTR2520 Optimization Agior Core Course of the ics at PKU. 8 and 4999 taken at CUHK the requirements of the Bacl	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU requirements of the 1 C can be transferred to helor of Science in Fir	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf Bachelor of Scie o fulfill 3 units o nancial Mathemat	ce Vinancial Math ucation and Fre I Mathematics a units of course the Bachelor o to take a total o Verred to fulfill nce in Financia f the Graduatio ics at PKU.
[c] [d] [f]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order to Science in 91 to 92 un FTEC2107 units of N Mathemat FTEC4998 Thesis of t The recor students' C	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements n to the 5 elective courses, p fulfil 18 units of Selected Financial Mathematics at F nits (instead of 88 to 89 uni I/ESTR2520 Optimization Aajor Core Course of the ics at PKU. 3 and 4999 taken at CUHK he requirements of the Bacl nmended course pattern of College affiliation.	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU requirements of the 1 C can be transferred to helor of Science in Fir of College GE cours	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf Bachelor of Scie o fulfill 3 units o hancial Mathemat es varies slight	ce <u>Financial Math</u> ucation and Fre I Mathematics a units of course the Bachelor o to take a total o Ferred to fulfill nce in Financia f the Graduatio ics at PKU. y depending o
[c] [d] [e] [f]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order to Science in 91 to 92 un FTEC2102 units of N Mathemat FTEC4999 Thesis of t The recor students' C The 2 unit	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements n to the 5 elective courses, o fulfil 18 units of Selected Financial Mathematics at F nits (instead of 88 to 89 uni I/ESTR2520 Optimization Major Core Course of the ics at PKU. 3 and 4999 taken at CUHK he requirements of the Bacl nmended course pattern of	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU requirements of the 1 C can be transferred to helor of Science in Fir of College GE cours course can be replaced	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf Bachelor of Scie o fulfill 3 units o hancial Mathemat es varies slight d by an additiona	ce <u>Financial Math</u> ucation and Free I Mathematics a units of course the Bachelor of to take a total of Forred to fulfill nce in Financia f the Graduatio ics at PKU. y depending o I GE Foundatio
[b] [c] [d] [f] [g]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order tc Science in 91 to 92 un FTEC2100 units of N Mathemat FTEC4998 Thesis of t The recor students' C The 2 unit course (viz students w	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements ourses of the requirements of the 5 elective courses, of fulfil 18 units of Selected Financial Mathematics at F nits (instead of 88 to 89 uni I/ESTR2520 Optimization Aajor Core Course of the ics at PKU. 8 and 4999 taken at CUHK he requirements of the Bacl numended course pattern of College affiliation. s of University GE Area A	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU requirements of the 1 Can be transferred to helor of Science in Fir of College GE cours course can be replaced GE Foundation cours elevant to Area A in P	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf Bachelor of Scie o fulfill 3 units o hancial Mathemat es varies slight d by an additiona	ce <u>Financial Math</u> ucation and Free I Mathematics a units of course the Bachelor o to take a total o Ferred to fulfill force in Financia f the Graduation ics at PKU. y depending on a GE Foundation fon that the PKU
[c] [d] [e] [f]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order tc Science in 91 to 92 up FTEC2100 units of M Mathemat FTEC4999 Thesis of t The recor students' C The 2 unit course (viz students w approved 0	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements ourses of the requirements to the 5 elective courses, o fulfil 18 units of Selected Financial Mathematics at I nits (instead of 88 to 89 uni I/ESTR2520 Optimization Major Core Course of the ics at PKU. 8 and 4999 taken at CUHK he requirements of the Back nmended course pattern of College affiliation. s of University GE Area A z. completing BOTH of the rould have taken course(s) r	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU requirements of the 1 Can be transferred to helor of Science in Fir of College GE cours course can be replaced GE Foundation cours elevant to Area A in P	Introduction to F ts of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf Bachelor of Scie o fulfill 3 units o hancial Mathemat es varies slightly d by an additiona es) on the conditi KU. The followir	ce <u>Financial Math</u> ucation and Free I Mathematics a units of course the Bachelor o to take a total o Ferred to fulfill force in Financia f the Graduation ics at PKU. y depending on a GE Foundation fon that the PKU
[c] [d] [e] [f]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order to Science in 91 to 92 up FTEC210 units of M Mathemat FTEC4998 Thesis of t The recor students' C The 2 unit course (viz students w approved 0	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements o to the 5 elective courses, o fulfil 18 units of Selected Financial Mathematics at F nits (instead of 88 to 89 uni //ESTR2520 Optimization fajor Core Course of the ics at PKU. 8 and 4999 taken at CUHK he requirements of the Back nmended course pattern of College affiliation. s of University GE Area A z. completing BOTH of the 'ould have taken course(s) r GE courses offered by Ancient Chinese	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc students are required Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU requirements of the 1 Can be transferred to helor of Science in Fir of College GE cours course can be replaced GE Foundation cours elevant to Area A in P relevant to Area A. Recommendations The course can be c	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf Bachelor of Scie o fulfill 3 units o nancial Mathemat es varies slightl d by an additiona es) on the conditi KU. The followir from OUGE onsidered as an e	ce <u>Financial Math</u> ucation and Free I Mathematics a units of course the Bachelor of to take a total of to take a total of erred to fulfill nee in Financia f the Graduatio ics at PKU. y depending of I GE Foundatio ion that the PKU g is a list of pre- quivalent
[c] [d] [e] [f]	FINA231 SEEM25 Courses ta Elective C PKU. In addition in order to Science in 91 to 92 up FTEC210 units of M Mathemat FTEC4998 Thesis of t The recor students' C The 2 unit course (viz students w approved 0 Designat PKU	20 Fundamental in Fin ken at CUHK can be trans ourses of the requirements o to the 5 elective courses, o fulfil 18 units of Selected Financial Mathematics at Finits (instead of 88 to 89 unit I/ESTR2520 Optimization Major Core Course of the ics at PKU. B and 4999 taken at CUHK the requirements of the Back numended course pattern of College affiliation. s of University GE Area A z. completing BOTH of the rould have taken course(s) r GE courses offered by PKU	ancial Engineering ferred to fulfill 19 uni of the Bachelor of Sc Major Courses of the PKU. In this connection ts) at CUHK. Methods taken at CU requirements of the 1 C can be transferred to helor of Science in Fir of College GE cours course can be replaced GE Foundation courss elevant to Area A in P relevant to Area A.	Introduction to F its of General Ed ience in Financia to take another 3 e requirements of on, students need HK can be transf Bachelor of Scie of fulfill 3 units of nancial Mathemat es varies slight d by an additiona es) on the conditi KU. The followir from OUGE onsidered as an e 0 <i>An Introduction</i>	ce <u>Financial Math</u> ucation and Free I Mathematics a units of course the Bachelor o to take a total o control to fulfill i nce in Financia f the Graduation ics at PKU. y depending on I GE Foundation on that the PKU g is a list of pre- quivalent n to Chinese

Major Programme Requirement (for Associate Degree or Higher Diploma holders admitted to senior-year places)

Students are required to complete at least 50 units of Major courses at CUHK.

A can be granted.

A can be granted.

in Area A.

in Area A.

Students are required to complete a minimum of 55 units of courses as follows:

History of Chinese Culture

Traditional China

Geography of China

The Historical

Politics and Culture in

3032360

2131110

1339320

[h]

· · ·

Culture (3 units), and exemption of 3 units in Area

The course can be considered as an equivalent course of UGEA2110 *An Introduction to Chinese*

Culture (3 units), and exemption of 3 units in Area

The course can be considered for exempting 3 units

The course can be considered for exempting 3 units

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1.	CSCI1	tion Courses: 120/1130/ESTR1100/1102, ENGG2760/ESTR2018, 2780/ESTR2020	7
2. (a)	CSCI2 ECON2	ed Courses: 100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306, 2011#, FTEC2101/ESTR2520, FTEC3001, 3002, 520#, SEEM3550#/ESTR3506	24
(b)	Researc	ch Component Courses[a]: 998, 4999	6
(c)	Practice FTEC2	um Course: 602	1
(d)	Legal C FTEC2		2
3. (a)		e Courses: 1st 6 units from FTEC4003, FTEC4004/IERG4004#, 007	15
(b)	ACCT2 CSCI3 CSCI4 ENGG FTEC4 MKTG SEEM3	150#/ESTR3102, CSCI3160#/ESTR3104, CSCI320#, 160#/ESTR4104, CSCI4180#/ESTR4106, 430#/IERG3310#/ESTR310/ESTR4120, ECON2021#, 1820, FINA2310#, 3020#, 3030#, 3070#, 3210#, 4010#, 001, 4002, 4005, 4006, IERG4080#/ESTR4312, IERG4210#, 4120#, SEEM3410#, SEEM3450#/ESTR3502, 3570#/ESTR3508, SEEM3580#, SEEM3590#/ESTR3509, 4730#/ESTR4508	
		Total	55
Enginee Stream[Elective 15 units i) ii)	c] Courses of cours 12 units at least	es[d]: s of ESTR courses of which at most 6 units of courses at 1000 c 6 units of courses at 3000 or 4000 level[e] of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM	or 2000 level and
Explana	•		
1.	will be	ESTR and FTEC courses at 2000 and above level as well as the included in the calculation of Major GPA for honours classified in the Foundation Courses.	
[a]	Student comple	is who have declared to specialize in the ELITE Stream will te 6 units of ESTR4998 and 4999 to substitute for FTEC4998 cannot be used to fulfill the Elective Courses requirement of the	and 4999. These
[b] [c]	ESTR of Details the ELI Non-EI required courses	courses will be counted as their reciprocal departmental subject of the entrance and coursework requirements, and declaration TE Stream can be found at the ELITE website (<u>www.erg.cuhk.c.</u> ITE Engineering students may be allowed to take ESTR cours d to seek approval from their respective Major Programmes taken to fulfill the Major Programme Requirement. Details are website.	areas. n procedures for <u>edu.hk/elite</u>). ses. Students are for using ESTR
[d]	Student require Stream	is can use up to 9 units of courses which have been take ments of items 1 to 3 above to fulfill the elective requiremen I tem 2(b) Research Component Courses will not be included ist of ESTR courses is available at the ELITE website.	ts of the ELITE
[e]	Student 5000 le	is can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/S vel to substitute for ESTR courses at 3000 or 4000 level, subject stream Director and the Associate Dean (Education).	
[f]	The re require	quirement of at least 3 units of Engineering courses at 3 ment for the ELITE Stream only. It should not be interpreted Major Programme.	
		Recommended Course Pattern (for Associate Degree of Higher Diploma holders admitted to senior-year places)	or Units
First Year Attendanc		1 st term Major Required: CSCI1120/1130/ESTR1100/1102, ECON201 ENGG2760/ESTR2018, SEEM2520 Major Elective:	1, 11
		nd	1

	Recommended Course Pattern (for Associate Degree or Higher Diploma holders admitted to senior-year places)	Units
First Year of Attendance	1 st term Major Required: CSCI1120/1130/ESTR1100/1102, ECON2011, ENGG2760/ESTR2018, SEEM2520 Major Elective:	11
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602 Major Elective(s): 1 course	11
Second Year of Attendance	1 st term Major Required: CSCI4130/IERG4130/ESTR4306, FTEC3001 or 3002, FTEC4998	9

Major Elective(s): 2 courses	6
2 nd term Major Required: FTEC3001 or 3002, FTEC4999, SEEM3550/ESTR3506	9
Major Elective(s): 2 courses	6
Tota	l: 55

Financia	I Technology and Integrated BBA Programme Double Major Programme	
Major I	Programme Requirement	
Student	s are required to complete a minimum of 90 units of courses as follows:	Units
1.	Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006, MGNT1020	9
2.	Required Courses:	40
(a)	1 st Major: Financial Technology i) Foundation Courses: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a]	40
	 ii) Required Courses: CSCl2100#/ESTR2102, CSCl4130#/IERG4130#/ESTR4306, DSME1030#, FINA2010#, FTEC2101/ESTR2520, FTEC3001[b], 3002, SEEM3550#/ESTR3506, SEEM3590#[b]/ESTR3509[b] 	
(b)	<u>2nd Major: Integrated BBA Programme</u> ACCT2111#, 2121, 2151#, DSME1040#, 2030#, FTEC4003[b], IBBA3040#, MGNT2611, 4010, MKTG2010#	26
3.	Elective Courses:	2
(a)	1 st Major: Financial Technology 3 units from the following: FTEC4001, 4002, FTEC4004/IERG4004#, FTEC4005, 4006, 4007	3
(b)	 2nd Major: Integrated BBA Programme[b] i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or above level, excluding DSME2011, 2051, 4220, FINA3080, 4110, MGNT2511, 2512 and courses taken for fulfilment of requirement (ii) below 	6
	ii) One course from the following: FINA3020, 3030, 3070, 3210, 4010	
4.	Research Component/ Capstone Course/ Final Year Project[c]: FTEC4998, 4999 Total:	6 90
Engine Elective	ves by taking the following stream offered by the Faculty of Engineering: ering Leadership, Innovation, Technology and Entrepreneurship (ELITE) S e Courses: s of courses[e]: 12 units of ESTR courses of which at most 6 units of courses at 1000 or 200 at least 6 units of courses at 3000 or 4000 level[f] 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM course	00 level and
F 1	level[g]	
1.	atory Notes: ENGG, ESTR and FTEC courses at 2000 and above level as well as those will be included in the calculation of Major GPA for honours classification courses in the Faculty Package and Foundation Courses.	
2. 3.	Students are not allowed to declare Minor in Business. Students should have gone through a selection process in order to be adm	itted to this
[a]	 Double Major Programme. i) Non-JUPAS admittees and JUPAS admittees with HKDSE M Extended Modules I or II are required to attend a Mathematics Pla of the Faculty of Engineering. Students who fail or are abser Placement Test will be required to take MATH1020 in the same they take MATH1510. 	cement Test nt from the
	 ii) JUPAS admittees without HKDSE Mathematics Extended Module required to take MATH1020 concurrently with MATH1510. 	s I or II are
	 iii) Students who fail MATH1510 in Term 1 will have to retake the cou 2. The pre-assigned course, ENGG1130, will also be dropped. 	ırse in Term
[b]	Courses taken to fulfill the requirements of items 2(a)(ii), 2(b) and 3(b) wil fulfill the requirement of General Business Concentration of the Integ Programme.	
[c]	Students who have declared to specialize in the ELITE Stream will be complete 6 units of ESTR4998 and 4999 to substitute for FTEC4998 and 49	999. These 6
[d]	units cannot be used to fulfill the Elective Courses requirement of the ELITE Details of the entrance and coursework requirements, and declaration procec ELITE Stream can be found at the ELITE website (<u>www.erg.cuhk.edu.hk/eli</u> Non-ELITE Engineering students may be allowed to take ESTR courses. S required to seek approval from their respective Major Programmes for u courses taken to fulfill the Major Programme Requirement. Details are ava ELITE website.	lures for the t <u>e</u>). Students are using ESTR
[م]	ELITE websile. Students can use up to 0 units of courses which have been taken to	fulfill the

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- Students can use up to 7 units of courses which have been taken to furthin the ႞ႄ႞ requirements of items 1 to 3 above to fulfill the elective requirements of the ELITE Stream. Item 4 Research Component/ Capstone Course/ Final Year Project 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 at [f] 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) of the Faculty of Engineering.
- [g] 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 Double Major Programme.

	Recommended Course Pattern	Units	
First Year of Attendance	1 st term Faculty Package: MGNT1020 Financial Technology Major Required: DSME1030, MATH1510 Major Elective(s):	3 6	
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ ESTR1006	6	
	Integrated BBA Major Required: DSME1040, IBBA3040 Major Elective(s):	4	
Second Year of Attendance	1 st term Financial Technology Major Required: CSCI1120/1130/ ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ ESTR2018	8	
	Integrated BBA Major Required: ACCT2111 Major Elective(s):	3	
	2 nd term Financial Technology Major Required: CSCI2100/ ESTR2102, ENGG2780/ESTR2020, FINA2010, FTEC2101/ ESTR2520	11	
	Integrated BBA Major Required: ACCT2121 Major Elective(s):	3	
Third Year of Attendance	1 st term Financial Technology Major Required: CSCI4130/ IERG4130/ESTR4306, FTEC3001 or 3002, SEEM3590/ ESTR3509	9	
	Integrated BBA Major Required: ACCT2151, DSME2030 Major Elective(s):	5	
	2 nd term Financial Technology Major Required: FTEC3001 or 3002, SEEM3550/ESTR3506	6	
	Integrated BBA Major Required: MKTG2010 Financial Technology Major Elective(s): 1 course	3 3	
Fourth Year of Attendance	1 st term Major Required: FTEC4998 Integrated BBA Major Required: MGNT2611 Integrated BBA Major Elective(s): 1 course	3 2 3	
	2 nd term Major Required: FTEC4999	3	
	Integrated BBA Major Required: FTEC4003, MGNT4010 Integrated BBA Major Elective(s): 1 course	6 3	
	Total (including Faculty Package):	90	
Bachelor of Engin (Integrated BBA Pro	heering (Financial Technology) and Bachelor of Business A bgramme) Double Degree Option	Administration	
<u>1st Degree: Bache</u>	<u>lor of Engineering (Financial Technology)</u>		
Major Programma Degujromant			

Major Programme Requirement

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

Student	ts 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: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a]	13
3. (a)	Required Courses: CSCI2100#/ESTR2102, ECON2011#, FINA2310#, FTEC2101/ESTR2520, FTEC3001, 3002, SEEM2520#, SEEM3550#/ESTR3506, SEEM3590#/ESTR3509	30
(b)	Research Component Courses[b]: FTEC4998, 4999	6
(c)	Practicum Course: FTEC2602	1
(A)	Legal Course	2

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ĺ	(u)	FTEC2001 2	
	4.	Elective Courses: 14	
	(a)	At least 6 units from FTEC4001, 4002, 4003, FTEC4004/IERG4004#, FTEC4005, 4006, 4007	
	(b)	Courses from at least 3 subject areas[c]: ACCT2111#, AIST4010#/ESTR4140, CSCI2040#, 2120#, CSCI3150#/ESTR3102, CSCI3160#/ESTR3104, CSCI3320#, CSCI4160#/ESTR4104, CSCI4180#/ESTR4106, CSCI4430#/IERG3310#/ESTR3310/ESTR4120, ENGG1820, FINA3020#, 3030#, 3070#, 3210#, 4010#, IERG4080#/ESTR4312, IERG4210#, MKTG4120#, SEEM3410#, SEEM3450#/ESTR3502,	
		SEEM3570#/ESTR3508, SEEM3580#, SEEM4730#/ESTR4508	
		Total: 75	
		on to fulfilling the above Major Programme Requirement, students may also challenges by taking the following stream offered by the Faculty:	3
	Elective (
	i)	of courses[e]: 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and	1
	1)	at least 6 units of courses at 3000 or 4000 level[f]	4
	ii)	3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[g])
	Explanate	bry Notes:	
	1.	ENGG, ESTR and FTEC courses at 2000 and above level as well as those labeled as a	
		will be included in the calculation of Major GPA for honours classification, excluding courses in the Faculty Package and Foundation Courses.	3
	[a]	 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. 	•
		 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, will also be dropped. 	
	[b]	Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for FTEC4998 and 4999. These 0 units cannot be used to fulfill the Elective Courses requirement of the ELITE Stream.	
	[c]	ESTR courses will be counted as their reciprocal departmental subject areas.	
	[d]	Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (<u>www.erg.cuhk.edu.hk/elite</u>). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTF courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.	e {
	[e]	Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 4 above to fulfill the elective requirements of the ELITH 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.	Ξ

- Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at [f] 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).
- The requirement of at least 3 units of Engineering courses at 5000 level is a requirement [g] for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

Requirements for admission to the 2nd degree programme

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- Admission to the second degree programme is guaranteed if students have: 1.
 - fulfilled all graduation requirements of the first degree programme; i.
 - Major GPA of at least 3.0 upon completion of studies of the first degree ii. programme (ERG); and
 - taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 and iii. 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.

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2nd Degr	ee: Bachelor of Business Administration (Integrated BBA Programme)
Major Pr	ogramme Requirement
Students a	are required to complete a minimum of 56 units of courses as follows:
1.	UnitsFaculty Package:9DSME1030, 1040, MGNT10209
2.	Required Courses: 32-33
	ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010, MKTG2010
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) DSME2021, 4110; (ii) two courses selected from: DSME3000, 3011, 3030, 3050,
	(ii) two courses selected from DSME5000, 5011, 5050, 5050, 3080, 3090, 4040, 4080; and (iii) one DSME course at 3000 or above level, excluding the
	courses taken for fulfillment of requirement (i) or (ii)
(b)	Business Analytics (i) DSME2021, 2040, 4020;
	(i) one course selected from: DSME4070, 4240, 4260; and
	(iii) one course selected from: DSME3030, 4030, 4110, 4220, 4280, MKTG4120
(c)	Finance (i) DSME2021 or FINA2020; and
	(ii) 15 units of FINA courses at 3000 or above level, with no more
(d)	than three 1-unit FINA courses Entrepreneurship
	(i) MGNT1070, 2070, 3070, 4170; and
	(ii) two courses selected from: MGNT4070, 4090, 4130, 4270, 4570
(e)	Management of International Business
	 (i) MGNT3580, 4150; and (ii) four courses selected from: MGNT3010, 3080, 3100, 4080,
0	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,
(g)	4050, 4060, 4080, 4110, 4130, 4140 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)	Big Data and Quantitative Marketing (i) MKTG3010, 3060, 4080, 4090; and
	(ii) two courses selected from: MKTG3020, 4030, 4050, 4120,
(i)	4150, 4160, 4170, 4180, 4190, 4200 General Business
	(i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or
	above level; and (ii) 12 units of 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
	Total: 56-60
Explanato	ory Notes: ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding
	ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the
2.	calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not
	allowed.
3.	DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c).
	MGNT3010 and the associated units can be used to satisfy concentration requirements
1.	of double concentrations within (e) and (f). 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.
	bry Notes on Mutual Recognition or Exclusion:
Explanate	DSME2011 and the associated units can be exempted from the requirement of the
Explanate	
	DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2450/ESTR2005 OR

First Year of Attendance	Course Pattern 1 st degree: Bachelor of Engineering (Financial Technology) 1 st term	Units	2 nd degree: Bachelor of	Units
First Year of Attendance	Engineering (Financial Technology)	Units		Units
Attendance	1 st term		Business Administration (Integrated BBA Programme)	
	Faculty Package: Major Required: FINA2310, MATH1510 Major Elective(s):	6	1 st term Faculty Package: Major Required: Major Elective(s):	
	2 nd term Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9	2 nd term Faculty Package: Major Required: Major Elective(s):	
	Major Required: ECON2011 Major Elective(s):	3		
Attendance	1 st term Major Required: CSCI1120/ 1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018 Major Elective(s):	8	1 st term Faculty Package: DSME1030 Major Required: Major Elective(s):	3
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602 Major Elective(s):	11	2 nd term Faculty Package: DSME1040, MGNT1020 Major Required: Major Elective(s):	6
Attendance	1 st term Major Required: CSCI4130/ IERG4130/ESTR4306, FTEC3001 or 3002, SEEM2520, SEEM3590/ESTR3509 Major Elective(s):	12	1 st term Major Required: DSME2011 Major Elective(s):	4
	2 nd term Major Required: FTEC3001 or 3002, SEEM3550/ESTR3506	6	2 nd term Major Required: FINA2010 Major Elective(s):	3
Fourth Year of Attendance	Major Elective(s): 1 course 1 st term Major Required: FTEC4998 Major Elective(s): 2 courses	3 3 6	1 st term Major Required: ACCT2111, MGNT2512, 2611	6
-	2 nd term Major Required: FTEC4999	3	Major Elective(s): 2 nd term Major Required: ACCT2121,	7
	Major Elective(s): 2 courses	5	MKTG2010, MGNT2511 Major Elective(s): 1 course	3
Fifth Year of Attendance			1 st term Major Required: ACCT2151 or 3151, DSME2030, IBBA3040	6-7
			Major Elective(s): 3 courses 2 nd term Major Required: MGNT4010, DSME2051	9
	Total (including Faculty Package):	75	DSME2051 Major Elective(s): 1-2 courses Total (including Faculty Package):	3-6 56-60

Course List					
Course Code	Course Title	Unit(s)			
ENGG1820	Engineering Internship	1			
ENGG2440	Discrete Mathematics for Engineers	3			
ENGG2760	Probability for Engineers	2			
ENGG2780	Statistics for Engineers	2			
ESTR2004	Discrete Mathematics for Engineers	3			
ESTR2018	Probability for Engineers	2			
ESTR2020	Statistics for Engineers	2			
ESTR2520	Optimization Methods	3			
FTEC2001	FinTech Regulation and Legal Policy	2			
FTEC2101	Optimization Methods	3			
FTEC2602	Financial Technology Practicum	1			
FTEC3001	Financial Innovation and Structured Products	3			
ETEC3002	Introduction to Financial Infrastructures	3			

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 Introduction to Einancial Infractructures
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TTEC3002	minoduction to Financial infrastructures	5	
FTEC4001	Advanced Database Technologies	3	
FTEC4002	EC4002 Behavioral Analytics		
FTEC4003	Data Mining for FinTech	3	
FTEC4004	E-payment Systems and Cryptocurrency Technologies	3	
FTEC4005	Financial Informatics	3	
FTEC4006	Internet Finance	3	
FTEC4007	Introduction to Blockchain and Distributed Ledger	3	
	Technology		
FTEC4998	Final Year Project I	3	
FTEC4999	Final Year Project II	3	

Study Scheme Learning Outcomes

Learning Outcomes

1. Major Programme:

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

- the ability to apply knowledge of mathematics, science, and engineering appropriate to the 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);
- (4) the ability to function in multi-disciplinary teams (S/V);
- (5) the ability to identify, formulate, and solve engineering problems (K/S);
- (6) the understanding of professional and ethical responsibility (V);
- (7) the ability to communicate effectively (S);
- (8) the ability to understand the impact of engineering solutions in a global and societal context, 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);
- (11) the ability to use the techniques, skills, and modern engineering tools necessary for 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); and
- (13) the ability to apply the skills relevant to the discipline of financial technology in financial innovations, especially in the areas of payment systems, investment decisions and financial product developments, financial big data analytics, internet finance, and cyber and data security (K/S).

2. Financial Technology and Integrated BBA Programme Double Major Programme:

Upon completion of the programme, students should:

- (1) have effective business communication skills (S).
- (2) be able to apply knowledge of mathematics, science, and engineering and problem-solving skills that support them to make business decisions (K/S).
- (3) have the ability to design and conduct experiments, as well as to analyze and interpret data (K/S).
- (4) have 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).
- (5) have the ability to integrate business knowledge in a business environment (K/S/V).
- (6) have the ability to propose strategies in a global environment (K/S/V).
- (7) have the ability to be aware of the ethical issues in a business context (V).
- (8) have the ability to function in multi-disciplinary teams (S/V).
- (9) have the ability to identify, formulate, and solve engineering problems in a business context (K/S).
- (10) have the ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public (V).
- (11) have the ability to stay abreast of contemporary issues (S/V).
- (12) have the ability to recognize the need for, and to engage in life-long learning (V).
- (13) have the ability to use the techniques, skills, and modern engineering tools necessary for engineering and business practice appropriate to the degree discipline (K/S).
- (14) have the ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations (K/S/V).
- (15) have the ability to apply the skills relevant to the discipline of financial technology in financial innovations, especially in the areas of payment systems, investment decisions and financial product developments, financial big data analytics, internet finance, and cyber and data security (K/S).

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

Course Information

Return to Search