



# الجامعة الإسلامية العالمية ماليزيا

**INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
KULLIYAH OF SCIENCE  
BACHELOR OF MATHEMATICAL SCIENCES (HONOURS)  
BATCH 171 ONWARDS**

**PROGRAMME STRUCTURE SEMESTER I 2017/2018 (September Intake)**

**PROGRAMME STRUCTURE**

In order to obtain the BMathSc degree from IIUM, a student must successfully complete **at least 130** credit hours (CH) of course work, consisting of the University & Kulliyah, Department requirements courses as follows:

<b>MINOR IN ICT / KENMS</b>	Malaysian and International Students	
	<b>CH</b>	<b>%</b>
University Courses	20 CH	15.4
Kulliyah Courses	11 CH	8.5
General Core Course	48 CH	36.9
A Minor package	30 CH	23.1
Concentration package	9 CH	6.9
Elective Courses	6 CH	4.6
Industrial Training / Final Year Project	6 CH	4.6
<b>TOTAL</b>	<b>130 CH</b>	<b>100 %</b>

<b>MINOR IN EDUCATION</b>	Malaysian and International Students	
	<b>CH</b>	<b>%</b>
University Courses	20 CH	15.03
Kulliyah Courses	11 CH	8.3
General Core Course	48 CH	36.09
A Minor package	33 CH	24.8
Concentration package	9 CH	6.8
Elective Courses	6 CH	4.5
Industrial Training / Final Year Project	6 CH	4.5
<b>TOTAL</b>	<b>133 CH</b>	<b>100 %</b>

**University Required Courses**

Students must complete all university required courses. The total university requirements are (20 CH) and consist of Philosophy, Values and History courses (4 CH), Soft Skills courses (10 CH), Malaysian Studies courses (4 CH) and Community Engagement course (2 CH).

- *Study plan schedule is subjected to change*

**Kulliyah Required Courses**

Students are required to complete (11 CH) of kulliyah required courses. These comprise of: 3 CH for Science and Islam, 3 CH for Computers in Science, 3 CH for Principles and Practice of Management and 2 CH for Bahasa Melayu and Kerjaya (Sains dan Teknologi).

**General Core Courses**

The Mathematical Sciences core courses constitute 48 CH of course work.

**Concentration Courses**

A student may choose Concentration Packages from the seven specialization areas. He or she should, as early as possible, consult with departmental advisers in selecting a concentration that meets his or her needs.

**Minor Courses**

The student should consult the respective kulliyah to determine the minor courses suitable to their needs and add their credit hours in the study plan given below.

Currently students are allowed to choose one of the following minor courses:

- Minor in Business Administration (30 CH)
- Minor in Information Communication Technology (30 CH)
- Minor in Education Studies (33 CH)

If there are exempted courses the students should fill up the form for all the exempted courses.

**Elective Courses**

A student needs to choose 2 (6 CH) courses from 6 specialized elective courses which complement their concentration courses.

**Kulliyah Required Courses (11 CH)**

Course Code	Title	Credit Hours
KOS 1110	Computers in Science	3
KOS 1000	Islam and Science	3
MGT 2010K	Principles & Practice of Management	3
LM 2026K	Bahasa Melayu Kerjaya (Sains dan Teknologi)	2

**University Required Courses (20 CH)**

Course Code	Course Title	Credit Hours
<b>UNICORE 1 (UN1)</b>		
MPU 3122K	Tamadun Islam dan Tamadun Asia (TITAS)	2
MPU 3112K	Hubungan Etnik • for malaysian students	2
UNGS 2060K	Malay Virtues, Heritage and Malaysian Society	2
LM 1030K	Bahasa Melayu I untuk Pelajar Antarabangsa	1
LM 1031K	Bahasa Melayu II untuk Pelajar Antarabangsa	1
LM 1040K	Bahasa Melayu I untuk Pelajar Antarabangsa ( <i>Nusantara</i> )	1
LM 1041K	Bahasa Melayu II untuk Pelajar Antarabangsa ( <i>Nusantara</i> ) • for non malaysian students	1
<b>UNICORE 2 (UN2)</b>		
UNGS 2011K	Creative Thinking and Problem Solving	2
CCUB 1621K	Usrah 1 (BUDI)	0.5
CCUB 2621K	Usrah 2 (BUDI)	0.5
CCLM 2051K	Leadership and Management	0.5
CCFM 2052K	Family Management and Parenting	0.5
SKILL	Skills Package 1	0.5
	Skills Package 2	0.5
LE 4000K	English Academic Writing	3
TQ 1001K	Tilawah Al-Quran I	0.5
TQ 2001K	Tilawah Al-Quran II	0.5
LQ 1008K	Quranic Language I	0.5
LQ 2008K	Quranic Language II	0.5
<b>UNICORE 3 (UN3)</b>		
UNGS 2080K (UNGS 2050 + UNGS 2070)	Ethics and <i>Fiqh</i> of Contemporary Issues	2
UNGS 2090K (UNGS 2030 + UNGS 2040)	Islamic Worldview, Knowledge & Civilization	2
<b>UNICORE 4 (UN4)</b>		
CCUB 3621K	Usrah 3 (BUDI)	1
CCUB 4621K	Usrah 4 (BUDI)	1
<b>TOTAL</b>		<b>20</b>

Please refer next pages for the credited co-curricular activity courses offered

**CREDITED CO-CURRICULAR ACTIVITY PACKAGES****First Year Package**

<b>Semester 1</b>		
<b>Course Code</b>	<b>Title</b>	<b>Credit Hours</b>
CCUB 1621K	Usrah Budi 1	0.5
	<b>AND</b>	
CCLM 2051K	Leadership and Management	0.5
	<b>OR</b>	
	Tahfiz 1	0.5
<b>Semester 2</b>		
CCUB 2621K	Usrah Budi 2	0.5
	<b>AND</b>	
CCFM 2052K	Family Management and Parenting	0.5
	<b>OR</b>	
	Tahfiz 2	0.5

**Second Year Package**

<b>Semester 1</b>		
<b>Course Code</b>	<b>Title</b>	<b>Credit Hours</b>
CCUB 3621K	Usrah Budi 3	1
	<b>AND</b>	
SKILL	Skills Package 1 (Badminton, Community service, etc)	0.5
	<b>OR</b>	
	Tahfiz 3	0.5
<b>Semester 2</b>		
SKILL	Skills Package 2 (Badminton, Community service, etc)	0.5
	<b>OR</b>	
	Tahfiz 4	0.5

**Third Year Package**

<b>Semester 1</b>		
<b>Course Code</b>	<b>Title</b>	<b>Credit Hours</b>
CCUB 4621K	Usrah Budi 4	1
	<b>AND</b>	
	Tahfiz 5	0.5
<b>Semester 2</b>		
	Tahfiz 6	0.5

**Note: Any student who registers in Tahfiz Package is not exempted from Usrah Budi**

*\*Subject to changes*

**LIST OF CREDITED CO-CURRICULAR ACTIVITY COURSES OFFERED**

<b>Course Code</b>	<b>Title</b>
CCBB3431K	Badminton 1
CCBB3432K	Badminton 2
CCCS3231K	Basic Counseling Skills 1
CCCS3231K	Basic Counseling Skills 2
CCCD3111K	Community Service 1
CCCD3112K	Community Service 2
CCES3401K	Entrepreneur 1
CCES3401K	Entrepreneur 2
CCF 1041K	Fardhu' Ain
CCHB1011K / CCHS1011K	Study Circle 1
CCHB1012K / CCHS1012K	Study Circle 2
CCLM2051K	Leadership and Management
CCFM2052K	Family Management and Parenting
CCPS3101K	Photography Skill 1
CCPS3102K	Photography Skill 2
CCR 3151K	Recreation 1
CCR 3152K	Recreation 2
CCSB3211K / CCSS3211K	Swimming 1
CCSB3212K / CCSS3212K	Swimming 2
CCTH1021K	Tahfiz 1
CCTH1022K	Tahfiz 2
CCTH2021K	Tahfiz 3
CCTH2022K	Tahfiz 4
CCTH3021K	Tahfiz 5
CCTH3022K	Tahfiz 6
CCTC3181K	Tennis 1
CCTC3182K	Tennis 2
CCVB3171K	Volleyball 1
CCVB3172K	Volleyball 2
CCKS3131K	Khat 1
CCKS3132K	Khat 2
CCUB 1621K	Usrah Budi 1
CCUB 2621K	Usrah Budi 2
CCUB 3621K	Usrah Budi 3
CCUB 4621K	Usrah Budi 4

**General Core Courses (48CH)**

Course Code	Title	Credit Hours	Pre- Requisites/ Co-Requisites
SMS 1101	Analytic Geometry	3	
SMS 1102	Calculus I	3	
SMS 1103	Number Theory	3	
SMS 1204	Calculus II	3	SMS 1102
SMS 1205	Linear Algebra	3	SMS 1102
SMS 1206	Algebra	3	SMS 1205
SMS 2307	Advanced Calculus	3	SMS 1102
SMS 2308	Mathematical Methods	3	SMS 2307
SMS 2309	Introduction to Statistics	3	SMS 1102,SMS 1204
SMS 2410	Mathematical Analysis	3	SMS 2308
SMS 2411	Advanced Mathematical Methods	3	SMS 2308
SMS 2412	Theory of Probability	3	
SMS 3513	Vector Analysis	3	SMS 2411,SMS 2410
SMS 3514	Computational Mathematics	3	SMS 2308
SMS 3515	Scientific Computing	3	SMS 3514
SMS 3616	Advanced Analysis	3	SMS 2410
		<b>48 CH</b>	

**Elective Courses (6 CH)**

Course Code	Title	Credit Hours	Pre- Requisites
SMS 4674	Operational Research (SMS 4440)	3	SMS 2308
SMS 4528	Introduction to functional Analysis	3	SMS 2410
SMS 4628	Complex Variable Function (SMS 4460)	3	SMS 1102,SMS 1205
SMS 4651	Statistical Data Analysis (SMS 4450)	3	SMS 2309
SMS 4653	Introduction to Financial Mathematics (SMS 4430)	3	SMS 1102,SMS 1204
SMS 4663	Introduction to Optics (SMS 4420)	3	

### Schedule of Courses

The curriculum structure for the Mathematical Sciences programme for **Core Courses** is shown in the following table. The student is **advised** to follow the Schedule of courses and **add the Credit hours** for the other courses, University required courses, Kulliyah Required courses, and Minor courses.

For minor courses the student should consult the respective kulliyah to determine the minor courses suitable to their needs and add their credit hours in the study plan given below.

The student can choose between final year project (6 CH) or industrial training (3 CH) plus mini project (3 CH). The student should consult the coordinator for industrial training to get more information.

#### Study Plan

1 <sup>st</sup> Year	SEMESTER I			
	Course code	Title	Pre- Requisites/ Co-Requisites	Credit Hours
	SMS 1101	Analytic Geometry		3
	SMS 1102	Calculus I		3
	SMS 1103	Number Theory		3
	KOS 1110K	Computer in Science		3
	MGT 2010K	Principles & Practice of Management		3
	UNGS 2090K (UNGS 2030 + UNGS 2040)	Islamic Worldview, Knowledge & Civilization		2
	TQ 1001K	Tilawah Al-Quran I		0.5
	CCUB 1621K	Usrah Budi 1		0.5
	CCLM 2051K	Leadership and Management		0.5
		OR		
	CCTH 1021K	Tahfiz 1		0.5
				<b>18.5</b>

		<b>SEMESTER II</b>			
		<b>Course code</b>	<b>Title</b>	<b>Pre- Requisites/ Co-Requisites</b>	<b>Credit Hours</b>
		SMS 1204	Calculus II	SMS 1102	3
		SMS 1205	Linear Algebra	SMS 1101	3
		SMS 1206	Algebra	SMS 1103	3
		KOS 1000	Islam & Science		3
		LM 2026K	Bahasa Melayu Kerjaya (Sains dan Teknologi)		2
		MPU 3112K	Hubungan Etnik <i>*for Malaysian students*</i>		2
		LM 1030K/ LM1040K	Bahasa Melayu I untuk Pelajar Antarabangsa/ Bahasa Melayu I untuk Pelajar Antarabangsa ( <i>Nusantara</i> ) <i>*for non malaysian students*</i>		1
		UNGS 2060K	Malay Virtues, Heritage and Malaysian Society <i>*for non malaysian students*</i>		2
		UNGS 2080K (UNGS 2050 + UNGS 2070)	Ethics and <i>Fiqh</i> of Contemporary Issues		2
		TQ 2001K	Tilawah Al-Quran II		0.5
		CCUB 2621K	Usrah Budi 2		0.5
		CCFM 2052K	Family Management and Parenting		0.5
			OR		
		CCTH 1022K	Tahfiz 2		0.5
					<b>19.5(Msian)/ 20.5(non-Msian)</b>
		<b>SEMESTER I</b>			
		<b>Course code</b>	<b>Title</b>	<b>Pre- Requisites/ Co-Requisites</b>	<b>Credit Hours</b>
		SMS 2307	Advanced Calculus	SMS 1204	3
		SMS 2308	Mathematical Methods	SMS 1205	3
		SMS 2309	Introduction to Statistics	SMS 1102, SMS 1204	3
			Minor		6
		UNGS 2011K	Creative Thinking and Problem Solving		2
		LE 4000K	English Academic Writing		3
		LQ 1008K	Quranic Language I		0.5
		CCUB 3621K	Usrah Budi 3		1
		SKILL	Skills Package 1		0.5
			OR		
		CCTH 2021K	Tahfiz 3		0.5
					<b>22</b>
<b>2<sup>nd</sup> Year</b>					



		<b>SEMESTER II</b>			
		<b>Course code</b>	<b>Title</b>	<b>Pre- Requisites/ Co-Requisites</b>	<b>Credit Hours</b>
		SMS 2410	Mathematical Analysis	SMS 2307	3
		SMS 2411	Advanced Mathematical Methods	SMS 2308	3
		SMS 2412	Theory of Probability		3
			Minor		6
		MPU 3122K	Tamadun Islam dan Tamadun Asia (TITAS) <i>*for Malaysian students*</i>		2
		LQ 2008K	Quranic Language II		0.5
		LM1031K/ LM 1041K	Bahasa Melayu II untuk Pelajar Antarabangsa/ Bahasa Melayu II untuk Pelajar Antarabangsa ( <i>Nusantara</i> ) <i>*for non malaysian students*</i>		1
		SKILL	Skills Package 2		0.5
			OR		
		CCTH2022K	Tahfiz 4		0.5
					<b>18 (Msian)/ 17 (non- Msian)</b>
<b>3<sup>rd</sup> Year</b>		<b>SEMESTER I</b>			
		<b>Course code</b>	<b>Title</b>	<b>Pre-requisite(s)</b>	<b>Credit Hours</b>
		SMS 3513	Vector Analysis	SMS 2410	3
		SMS 3514	Computational Mathematics	SMS 2308	3
		SMS 3515	Scientific Computing	SMS 2307	3
		SMS XXXX	Elective Courses		3
			Minor		6
		CCUB 4621K	Usrah Budi 4		1
		CCTH3021K	( and Tahfiz 5)		0.5
					<b>19</b>

		<b>SEMESTER II</b>			
		<b>Course code</b>	<b>Title</b>	<b>Pre-requisite(s)</b>	<b>Credit Hours</b>
		SMS 3616	Advanced Analysis	SMS 2410	3
		SMS 44XX	Concentration course I		3
		SMS XXXX	Elective Courses		3
			Minor		6
		CCTH3022K	(and Tahfiz 6)		0.5
					<b>15</b>
		<b>SEMESTER III</b>			
		SMS 4011	Industrial Training		6
					<b>6</b>
		4 <sup>th</sup> Year		<b>SEMESTER I</b>	
<b>Course code</b>	<b>Title</b>			<b>Pre-requisite(s)</b>	<b>Credit Hours</b>
SMS 44XX	Concentration course II & III			SMS 44XX	6
	Minor				6
SMS 4200	Final Year Project*				6
					<b>12/18</b>
		<b>SEMESTER II</b>			
		<b>Course code</b>	<b>Title</b>	<b>Pre-requisite(s)</b>	<b>Credit Hours</b>
		EDC 4902K	Minor (Teaching Practicum for Minor in Education Studies only)		6
					<b>6</b>

Minor in Business Administration

No	Required Courses			( Specified ) Elective Courses		
	Code	Title	Pre - Requisite	Code	Title	Pre - Requisite
1	ECON 1140K	Statistical Methods	Exempted	MGT 4320K	Human Resource Management	MGT 1050K
2	ECON 1500K	Introduction to Economics	None	MGT 4650K	Entrepreneurship	MGT 1050K
3	ACC 1101K	Financial Accounting and Reporting	None	MGT 3050K	Decision Science	ECON 1140K
4	MGT 4110K	Organizational Behavior	MGT 2010K			
5	MGT 4760K	Strategic Management	MKTG 3010K, MGT1050K, FIN 3010			
6	MGT 4810K	International Business	MGT 1050K			
7	MKTG 3010K	Marketing Principles	MGT 1050K, ECON 1500K			
8	FIN 3010K	Financial Management 1	ECON 1140K, ECON 1500K			
\					<b>TOTAL</b>	<b>30</b>

Year	Semester I	Semester II	Semester III
2	<b>ECON 1500K</b> Introduction to Economics  <b>ACC 1101K</b> Financial Accounting and Reporting	<b>MGT 4110K</b> Organizational Behavior  <b>MKTG 3010K</b> Marketing Principles	
3	<b>FIN 3010K</b> Financial Management 1  <b>MGT 4810K</b> International Business	<b>MGT 4760K</b> Strategic Management  <b>MGT 4320K</b> Human Resource Management	
4	<b>MGT 4650K</b> Entrepreneurship  <b>MGT 3050K</b> Decision Science		

## Minor in Education

Code	Title	CH	Pre-requisites
EDF 1001K	Historical and Philosophical Foundations of Malaysian Education	3	-
EDP 1103K	Educational Psychology	3	-
EDF 2203K	Sociology of Education	3	-
EDC 3002K	Curriculum and Instruction	3	-
EDP 3501K	Testing and Assessment	3	-
EDT 1303K	Instructional Technology	2	-
EDC 3408K	The Methodology of Teaching Mathematics in Secondary Schools.	3	-
EDC 4390K	General Pedagogy / General Teaching Methods*	3	-
EDC 1701K	The Organization of School Co-Curriculum	2	-
EDC 3393K	Micro Teaching	2	-
EDC 4902K	Teaching Practicum	6	-
	<b>TOTAL</b>	<b>33</b>	

Year	Semester I	Semester II	Semester III
<b>2</b>	a) <b>EDF 1001K (3ch)</b> Historical, Philosophical Foundations of Malaysian Education  b) <b>EDP 1103K (3ch)</b> Educational Psychology	a) <b>EDF 2203K (3ch)</b> Sociology of Education  b) <b>EDC 3002K (3ch)</b> Curriculum and Instruction	-none-
<b>3</b>	a) <b>EDP 3501K (3ch)</b> Testing and Assessment in Human Development  b) <b>EDT 1303K (2ch)</b> Instructional Technology	a) <b>EDC 3408K (3ch)</b> Methodology of Teaching Mathematics in Secondary Schools  b) <b>EDC 3393K (2ch)</b> Micro Teaching	-none-
<b>4</b>	a) <b>EDC 1701K (2ch)</b> Organization of School Co-curriculum  b) <b>EDC 4390K (3ch)</b> General Pedagogy	a) <b>EDC 4902K (6ch)</b> Teaching Practicum in Secondary Schools (12 weeks)	-none-
		<b>TOTAL</b>	<b>33 CH</b>

**Minor in Information & Communication Technology**

<b>Code</b>	<b>Title</b>	<b>CH</b>	<b>Pre-requisites</b>
ITCM 1301K	Internet Application	3	-
INFO 1102K	Database I	3	-
INFO 2402K	Information Retrieval Technologies	3	ITCM 1301K
CSC 1100K	Elements of Programming	3	-
CSC 1700K	Discrete Mathematics	3	-
CSC 1401K	Introduction to Computer Organization	3	CSC 1700K
INFO 2501K	Management Information System	3	MGT 1050K
CSC 2101K	Data Structure & Algorithm	3	CSC 1100K & CSC 1401K
CSC 3401K	Operating System	3	CSC 1401K
ITCM 1801K	Introduction to Computer Networking (Non-ICT)	3	-
	<b>TOTAL</b>	<b>30</b>	

<b>Year</b>	<b>Semester I</b>	<b>Semester II</b>	<b>Semester III</b>
<b>2</b>		<b>CSC 1700K*</b> - Discrete Mathematics * <b>Teach by CTS staff</b>  <b>INFO 1102K</b> – Database I	
<b>3</b>	<b>ITCM 1301K</b> - Internet Application (IS)  <b>CSC 1100K</b> - Elements of Programming (CS)	<b>INFO 2402K</b> - Information Retrieval Technologies  <b>CSC 1401K</b> - Introduction to Computer Organization	
<b>4</b>	<b>INFO 2501K</b> - Management Information System  <b>CSC 2101K</b> - Data Structure & Algorithm	<b>CSC 3401K</b> - Operating System  <b>ITCM 1801K</b> - Introduction to Computer Networking (Non-ICT)	

**Concentration Courses (15 CH)**

(Subject to terms &amp; conditions set by the department)

<b>Computational Mathematics Concentration</b>		<b>Pre-requisite(s)</b>
SMS 4410	Numerical Analysis (3 CH)	SMS 3514
SMS 4411	Advanced Numerical Analysis (3 CH)	SMS 4410
SMS 4412	Parallel Computing (3 CH)	SMS 4411
SMS 4200	Computational Mathematics Project (6 CH)	SMS 4411
<b>OR</b>		
SMS 4011	Industrial Training (3 CH) + Computational Mathematics Project (3 CH)	SMS 4411
<b>Financial Mathematics Concentration</b>		
SMS 4430	Financial Mathematics I (3 CH)	SMS 4653
SMS 4431	Financial Mathematics II (3 CH)	SMS 4430
SMS 4432	Financial Mathematics III (3 CH)	SMS 4431
SMS 4200	Financial Mathematics Project (6 CH)	SMS 4431
<b>OR</b>		
SMS 4011	Industrial Training (3 CH) + Financial Mathematics Project (3 CH)	SMS 4431
<b>Operational Research Concentration</b>		
SMS 4440	Optimisation (3 CH)	SMS 4674
SMS 4441	Linear Programming (3 CH)	SMS 4440
SMS 4442	Dynamic Programming (3 CH)	SMS 4441
SMS 4200	Operational Research Project (6 CH)	SMS 4441
<b>OR</b>		
SMS 4011	Industrial Training (3 CH) + Operational Research Project (3 CH)	SMS 4441
<b>Optics Concentration</b>		
SMS 4420	Matter and Waves (3 CH)	SMS 2308, SMS 2410
SMS 4421	Optics 1 (3 CH)	SMS 4420
SMS 4422	Optics 2 (3 CH)	SMS 4421
SMS 4200	Optics Project (6 CH)	SMS 4420
<b>OR</b>		
SMS 4011	Industrial Training (3 CH) + Optics Project (3 CH)	SMS 4420
<b>Pure Mathematics Concentration</b>		
SMS 4460	Ergodic Theory I (3 CH)	SMS 2411
SMS 4461	Ergodic Theory II (3 CH)	SMS 4460
SMS 4462	Ergodic Theory III (3 CH)	SMS 4461
SMS 4200	Pure Mathematics Project (6 CH)	SMS 4461
<b>OR</b>		
SMS 4011	Industrial Training (3 CH) + Pure Mathematics Project (3 CH)	SMS 4461
<b>Statistics Concentration</b>		

SMS 4450	Probability and Statistical Inference I (3 CH)	SMS 4651
SMS 4451	Probability and Statistical Inference II (3 CH)	SMS 4450
SMS 4452	Stochastic Processes (3 CH)	SMS 4451
SMS 4200	Statistics Project (6 CH)	SMS 4451
<b>OR</b>		
SMS 4011	Industrial Training (3 CH) + Statistics Project (3 CH)	SMS 4451

**Quantum Cryptography**

SMS 4470	Introduction to Quantum Mechanics	SMS 1203, SMS 1206
SMS 4471	Quantum Information Theory	SMS 4470
SMS 4472	Quantum Computation and Quantum Cryptography	SMS 4471
SMS 4200	Quantum Cryptography Project (6CH)	
<b>OR</b>		
SMS 4011	Industrial Training (3 CH) + Quantum Cryptography Project (3 CH)	SMS 4471

**Amendment**

December 2013 – Pure concentration student cannot choose industrial training, only final year project allowed, effective on batch 141.

<b>Pure Mathematics Concentration</b>		
SMS 4460	Ergodic Theory I (3 CH)	SMS 2411
SMS 4461	Ergodic Theory II (3 CH)	SMS 4460
SMS 4462	Ergodic Theory III (3 CH)	SMS 4461
SMS 4200	Pure Mathematics Project (6 CH)	SMS 4461
<b>OR</b>		
<del>SMS 4011</del>	<del>Industrial Training (3 CH) + Pure Mathematics Project (3 CH)</del>	<del>SMS 4461</del>