

Załącznik nr 5 do Uchwały nr 74 Senatu Szkoły Głównej Handlowej w Warszawie z dnia 19 marca 2025 r.

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# 1 SMMA-FAP: Finance and Accounting, Practical Profile, Graduate, full-time

## 1.1 Basic courses SMMA-FAP: Finance and Accounting, Practical Profile, Graduate, full-time

### Basic courses SMMA-FAP

Course code	Course title	No of hours	ECTS credits
210111	Business Law	30	4,5

## 1.2 Major courses SMMA-FAP: Finance and Accounting, Practical Profile, Graduate, full-time

### Major courses SMMA-FAP

Course code	Course title	No of hours	ECTS credits
223721	Accounting and Financial Reporting under International Financial Reporting Standards I (FAP)	45	5,0
220611	Advanced Financial Accounting (FAP)	45	5,0
222161	Business Ethics	30	3,0
223741	Corporate Financial Analysis ( FAP)	45	6,0
220151	External and Internal Audit (FAP)	45	5,0
222041 or 222251	Financial Econometrics I ( FAP, CIMA) or Financial Engineering	30	3,0
220631	Financial Management (FAP)	45	5,0
220431	Investment Portfolio (FAP)	45	4,5
222811	Management and Cost Accounting (FAP)	30	3,0
222091 or 223051	Managerial Economics or Advanced Macroeconomics I	30	4,5
223781	Strategic Business Leadership Skills (FAP)	60	6,0
223751	Taxation (FAP)	30	4,0

## 1.3 Major elective courses SMMA-FAP: Finance and Accounting, Practical Profile, Graduate, full-time

### Major elective courses SMMA-FAP (minimum 22,5 ECTS to be taken\*)

Course code	Course title	ECTS credits
232141	Advanced Financial Reporting under International Financial Reporting Standards (FAP)	6,0
232151	Advanced Financial Strategies (FAP)	6,0
223051	Advanced Macroeconomics I	4,5
231611	Advanced Management Accounting (FAP)	4,5
231631	Advanced Performance Management (FAP)	4,0
234141	Corporate Financial Risk Management	3,0
231231	Derivatives Market	3,0

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**Major elective courses SMMA-FAP (minimum 22,5 ECTS to be taken\*)**

<b>Course code</b>	<b>Course title</b>	<b>ECTS credits</b>
222041	Financial Econometrics I ( FAP, CIMA)	3,0
222251	Financial Engineering	3,0
230051	Group Accounting (FAP)	2,0
222091	Managerial Economics	4,5
232651	Mergers and Acquisitions of Enterprises	3,0
26	Lectures of Visiting Professors	3.0

\*Not all the courses have to be opened during a particular academic year.

## 1.4 Plan of studies SMMA-FAP: Finance and Accounting, Practical Profile, Graduate, full-time

### Plan of studies SMMA-FAP

Semester of studies	Course code	Course title	ECTS credits
1	210111	Business Law	4,5
	222091 or 223051	Managerial Economics or Advanced Macroeconomics I	4,5
	222161	Business Ethics	3,0
	222811	Management and Cost Accounting (FAP)	3,0
	223721	Accounting and Financial Reporting under International Financial Reporting Standards I (FAP)	5,0
	223741	Corporate Financial Analysis ( FAP)	6,0
	223751	Taxation (FAP)	4,0
	24996	Training on Fundamentals of Intellectual Property Protection (e-learning)	0,0
	24998	Library Training (e-learning)	0,0
	24999	Training on Occupational Health and Safety (e-learning)	0,0
Total ECTS: 30			
2	220431	Investment Portfolio (FAP)	4,5
	220611	Advanced Financial Accounting (FAP)	5,0
	220631	Financial Management (FAP)	5,0
	222041 or 222251	Financial Econometrics I ( FAP, CIMA) or Financial Engineering	3,0
	230051	Group Accounting (FAP)	2,0
	231611	Advanced Management Accounting (FAP)	4,5
	-	Major, elective and minor courses	6,0
Total ECTS: 60			
3	220151	External and Internal Audit (FAP)	5,0
	223781	Strategic Business Leadership Skills (FAP)	6,0
	231631	Advanced Performance Management (FAP)	4,0
	232141	Advanced Financial Reporting under International Financial Reporting Standards (FAP)	6,0
	290001	Master's Seminar - first semester	8,0
	-	Major, elective and minor courses	1,0
Total ECTS: 90			
4	250171	Company Internship ( Finance and Accounting, practical profile II degree)	12,0
	290002	Master's Seminar - second semester	12,0
	-	Major, elective and minor courses	6,0
Total ECTS: 120			

Student must complete a 3-months internship (min 360 h, 12 ECTS credits). The Internship may be held in two parts or in one 3-months part. Student should complete the internship before the end of 4th semester. Trainings (24996, 24999, 24998) are obligatory for students who have not graduated the first-degree studies at SGH Warsaw School of Economics.

## 2 SMMA-IB: International Business, Graduate, full-time

### 2.1 Basic courses SMMA-IB: International Business, Graduate, full-time

#### Basic courses SMMA-IB

Course code	Course title	No of hours	ECTS credits
210111	Business Law	30	4,5

### 2.2 Major courses SMMA-IB: International Business, Graduate, full-time

#### Major courses SMMA-IB

Course code	Course title	No of hours	ECTS credits
222821	Financial Management (IB)	30	5,0
222081	Institutional Economics	30	4,5
221671	International Business Environment (IB)	30	5,0
221681	International Business Transactions (IB)	30	5,0
222301	International Economics (IB)	30	5,0
220281	International Marketing	30	4,5
220021	Management in International Business (IB)	30	5,0
221721	Managerial Accounting (IB)	30	6,0
222091	Managerial Economics	30	4,5
220041	Strategic Analysis of European Markets (CEMS, IB)	30	6,0
220081	Transnational Corporations	30	5,0

231911 Research and Presentation Methods in Business - Recommended to be taken in the 3rd semester.

### 2.3 Major elective courses SMMA-IB: International Business, Graduate, full-time

#### Major elective courses SMMA-IB (minimum 20 ECTS to be taken\*)

Course code	Course title	ECTS credits
232071	Business Environment in Central and Eastern Europe (IB)	5,0
222161	Business Ethics	3,0
231991	Business in Big Emerging Markets (IB)	5,0
232031	Business Strategies for Central and Eastern Europe (IB)	5,0
231971	China and India in the Global Economy	5,0
232041	Contemporary Issues in Central and Eastern Europe	5,0
23A1R1	Corporate Governance and Sustainability	5,0
231961	Emerging Markets - an Overview	5,0
236071	European Strategies and International Business (CEMS, IB)	5,0
232191	European Union Internal Market (IB)	5,0
232311	Global Digital Economy	5,0
239481	Global Startup Ecosystem (CEMS, IB)	6,0
210101	History of Economic Thought	4,5

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**Major elective courses SMMA-IB (minimum 20 ECTS to be taken\*)**

<b>Course code</b>	<b>Course title</b>	<b>ECTS credits</b>
230931	Institutional Diversity - Emerging Markets Business Practices (CEMS)	6,0
232051	International Financial Management (IB)	5,0
222341	International Financial Markets	3,0
231281	International Logistics (IB)	5,0
232061	International Management (IB)	5,0
238201	Leadership: Managing People, Systems and Self (CEMS, IB)	7,5
234381	Management of Competitiveness (CEMS)	6,0
231981	Managing Challenges in Emerging Economies (IB)	5,0
232091	Mergers and Acquisitions of Enterprises (IB)	5,0
231911	Research and Presentation Methods in Business (IB)	5,0
26	Lectures of Visiting Professors	3.0

\*Not all the courses have to be opened during a particular academic year.

## 2.4 Minor courses SMMA-IB: International Business, Graduate, full-time

### Minor: Business in Central and Eastern Europe (IB)

Course code	Course title	ECTS credits
232071	Business Environment in Central and Eastern Europe (IB)	5,0
232031	Business Strategies for Central and Eastern Europe (IB)	5,0
232041	Contemporary Issues in Central and Eastern Europe	5,0
236071	European Strategies and International Business (CEMS, IB)	5,0

### Minor: Doing Business in Emerging Markets (IB)

Course code	Course title	ECTS credits
231991	Business in Big Emerging Markets (IB)	5,0
231971	China and India in the Global Economy	5,0
231961	Emerging Markets - an Overview	5,0
231981	Managing Challenges in Emerging Economies (IB)	5,0

### Minor: International Business Management (IB)

Course code	Course title	ECTS credits
232191	European Union Internal Market (IB)	5,0
232051	International Financial Management (IB)	5,0
232061	International Management (IB)	5,0
232091	Mergers and Acquisitions of Enterprises (IB)	5,0

## 2.5 Plan of studies SMMA-IB: International Business, Graduate, full-time

### Plan of studies SMMA-IB

Semester of studies	Course code	Course title	ECTS credits
1	210111	Business Law	4,5
	220021	Management in International Business (IB)	5,0
	221671	International Business Environment (IB)	5,0
	221721	Managerial Accounting (IB)	6,0
	222081	Institutional Economics	4,5
	222821	Financial Management (IB)	5,0
	24996	Training on Fundamentals of Intellectual Property Protection (e-learning)	0,0
	24998	Library Training (e-learning)	0,0
	24999	Training on Occupational Health and Safety (e-learning)	0,0
Total ECTS: 30			
2	220041	Strategic Analysis of European Markets (CEMS, IB)	6,0
	220081	Transnational Corporations	5,0
	220281	International Marketing	4,5
	221681	International Business Transactions (IB)	5,0
	222091	Managerial Economics	4,5
	222301	International Economics (IB)	5,0
Total ECTS: 60			
3	290001	Master's Seminar - first semester	8,0
	-	Major, elective and minor courses	22,0
Total ECTS: 90			
4	250141	Company Internship (International Business)	3,0
	290002	Master's Seminar - second semester	12,0
	-	Major, elective and minor courses	15,0
Total ECTS: 120			

Internship may be held in the 2nd, 3rd or 4th semester. Trainings (24996, 24999, 24998) are obligatory for students who have not graduated the first-degree studies at SGH Warsaw School of Economics.



### 3 SMMB-AAB: Advanced Analytics - Big Data, Graduate, full-time

#### 3.1 Basic courses SMMB-AAB: Advanced Analytics - Big Data, Graduate, full-time

##### Basic courses SMMB-AAB

Course code	Course title	No of hours	ECTS credits
210111	Business Law	30	4,5
210101	History of Economic Thought	30	4,5

#### 3.2 Major courses SMMB-AAB: Advanced Analytics - Big Data, Graduate, full-time

##### Major courses SMMB-AAB

Course code	Course title	No of hours	ECTS credits
229091	Advanced Business Analytics, Data Imputation Techniques	30	4,5
222801	Advanced Optimization Methods	60	6,0
220521	Basic R Programming	16	1,5
223091	Big Data	30	3,0
224391	Cloud Computing	30	3,0
220311	Credit Scoring - Business Process Automation	30	3,0
220551	Cybersecurity	30	4,5
223121	Data Mining	30	3,0
223061	Databases Build and Exploitation	30	3,0
229081	Duration Analysis	30	3,0
220541	Python Programming	30	3,0
223101	Querrying, Data Presentation, Data Visualisation and Reporting	30	3,0
222891	Real-Time Analytics	30	3,0
223491	Statistical Learning Methods	45	6,0

#### 3.3 Major elective courses SMMB-AAB: Advanced Analytics - Big Data, Graduate, full-time

##### Major elective courses SMMB-AAB (minimum 15 ECTS to be taken\*)

Course code	Course title	ECTS credits
233531	Advanced R Programming	3,0
234061	Advanced Simulation Modelling	3,0
222001	Algebra and Mathematical Analysis	6,0
239201	Applied Cryptography	3,0
222051	Applied Econometrics	3,0
231791	Approximation Approaches - from Fourier Analysis to Deep Learning	4,5
220621	Artificial Intelligence	3,0
232471	Basic and Advanced Programming in SAS with Statistics	3,0
237811	Basic C++ Programming	3,0
230201	Bayesian Econometrics	3,0

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**Major elective courses SMMB-AAB (minimum 15 ECTS to be taken\*)**

<b>Course code</b>	<b>Course title</b>	<b>ECTS credits</b>
233071	Business Intelligence	3,0
23A0P1	Categorical Data Analysis	3,0
236481	Database Application Building. PL/SQL language	3,0
231451	Database Systems II	3,0
231221	Development of Business Applications	3,0
222991	Econometrics of Panel Data	3,0
233181	Financial Econometrics II	6,0
237991	Java Programming Fundamentals	3,0
222091	Managerial Economics	4,5
234971	Mathematical Logic	3,0
220581	Mathematical Statistics I	3,0
220341	Microeconometrics	3,0
235411	Modern Econometric Theory	3,0
230241	Nonlinear Econometric Models	3,0
236811	Numerical Methods	3,0
229061	Probability Theory II	3,0
230891	Spatial Econometrics	3,0
23A0N1	Stochastic Processes	3,0
236861	Theory and Design of Survey Sampling	3,0
222061	Time Series Econometrics	6,0
26	Lectures of Visiting Professors	3.0

\*Not all the courses have to be opened during a particular academic year.

### 3.4 Plan of studies SMMB-AAB: Advanced Analytics - Big Data, Graduate, full-time

#### Plan of studies SMMB-AAB

Semester of studies	Course code	Course title	ECTS credits
1	210101	History of Economic Thought	4,5
	210111	Business Law	4,5
	220311	Credit Scoring - Business Process Automation	3,0
	220521	Basic R Programming	1,5
	220541	Python Programming	3,0
	223061	Databases Build and Exploitation	3,0
	223091	Big Data	3,0
	223101	Querrying, Data Presentation, Data Visualisation and Reporting	3,0
	223121	Data Mining	3,0
	224391	Cloud Computing	3,0
	24996	Training on Fundamentals of Intellectual Property Protection (e-learning)	0,0
	24998	Library Training (e-learning)	0,0
	24999	Training on Occupational Health and Safety (e-learning)	0,0
Total ECTS: 31,5			
2	222801	Advanced Optimization Methods	6,0
	223491	Statistical Learning Methods	6,0
	229081	Duration Analysis	3,0
	-	Major, elective and minor courses	15,0
Total ECTS: 60			
3	220551	Cybersecurity	4,5
	229091	Advanced Business Analytics, Data Imputation Techniques	4,5
	290001	Master's Seminar - first semester	8,0
	-	Major, elective and minor courses	13,0
Total ECTS: 90			
4	222891	Real-Time Analytics	3,0
	290002	Master's Seminar - second semester	12,0
	-	Major, elective and minor courses	15,0
Total ECTS: 120			

Within the credits for elective courses a student may do internship (90 hours) and obtain 3 ECTS point for it. Trainings (24996, 24999, 24998) are obligatory for students who have not graduated the first-degree studies at SGH Warsaw School of Economics.

## 4 SMMG-GLO: Global Business, Finance and Governance, Graduate, full-time

### 4.1 Basic courses SMMG-GLO: Global Business, Finance and Governance, Graduate, full-time

#### Basic courses SMMG-GLO

Course code	Course title	No of hours	ECTS credits
210111	Business Law	30	4,5
210101	History of Economic Thought	30	4,5

### 4.2 Major courses SMMG-GLO: Global Business, Finance and Governance, Graduate, full-time

#### Major courses SMMG-GLO

Course code	Course title	No of hours	ECTS credits
222101	Advanced International Economics	30	4,5
221371	Cultural Determinants of International Business	30	3,0
223201	Economic Diplomacy	30	3,0
223231	Economics and Management of Innovations	45	4,5
223321	Global Poverty, Underdevelopment and Development	30	3,0
221651	Institutional Determinants of International Business	30	3,0
223221	International Entrepreneurship	45	4,5
223501	International Financial Management	30	3,0
223171	International Leadership	30	3,0
222091	Managerial Economics	30	4,5
223241	Natural Environment and Energy: International Conflicts and Cooperation	30	3,0
223191	Quantitative and Qualitative Methods in Management Sciences and Economics	60	7,5
221641	Technological Environment of International Business	30	3,0

### 4.3 Major elective courses SMMG-GLO: Global Business, Finance and Governance, Graduate, full-time

#### Major elective courses SMMG-GLO (minimum 15 ECTS to be taken\*)

Course code	Course title	ECTS credits
235201	Applied Behavioral Finance	3,0
235101	Brand Management on International Market	4,5
231991	Business in Big Emerging Markets (IB)	5,0
239091	Competition on the Energy Market in the European Union	3,0
222841	Diversity of Contemporary Capitalism	3,0
230391	Economic Fundamentals of Analysis in Network Industries	3,0

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**Major elective courses SMMG-GLO (minimum 15 ECTS to be taken\*)**

<b>Course code</b>	<b>Course title</b>	<b>ECTS credits</b>
231471	Economic Governance: Global and European Dimension	3,0
230471	Energy Security Economics	3,0
235221	Financial Risk Management and Derivatives	4,5
235111	Firm Strategies in International Business	6,0
235211	International Banking	3,0
235401	International Economic Law	3,0
239101	International Energy Markets	3,0
235191	Portfolio Management	4,5
235178	Regional Integration (Trading) Agreements (e-learning)	3,0
235131	Regulation of International Financial Markets	3,0
220487	Services in the Global Economy (blended learning)	3,0
235231	Services Management on International Market	4,5
230521	Sustainable Energy Management at the Global and Local Level	3,0
26	Lectures of Visiting Professors	3.0

\*Not all the courses have to be opened during a particular academic year.

#### 4.4 Minor courses SMMG-GLO: Global Business, Finance and Governance, Graduate, full-time

##### Minor: Energy on the Global Market (GLO)

Course code	Course title	ECTS credits
239091	Competition on the Energy Market in the European Union	3,0
230391	Economic Fundamentals of Analysis in Network Industries	3,0
230471	Energy Security Economics	3,0
239101	International Energy Markets	3,0
230521	Sustainable Energy Management at the Global and Local Level	3,0

##### Minor: Global Development and Governance (GLO)

Course code	Course title	ECTS credits
222841	Diversity of Contemporary Capitalism	3,0
231471	Economic Governance: Global and European Dimension	3,0
235401	International Economic Law	3,0
235171	Regional Integration (Trading) Agreements (e-learning)	3,0
220487	Services in the Global Economy (blended learning)	3,0

##### Minor: International Finance (GLO)

Course code	Course title	ECTS credits
235201	Applied Behavioral Finance	3,0
235221	Financial Risk Management and Derivatives	4,5
235191	Portfolio Management	4,5
235131 235211	or Regulation of International Financial Markets or International Banking	3,0

##### Minor: International Venture Management (GLO)

Course code	Course title	ECTS credits
235101	Brand Management on International Market	4,5
235111	Firm Strategies in International Business	6,0
235231	Services Management on International Market	4,5

## 4.5 Plan of studies SMMG-GLO: Global Business, Finance and Governance, Graduate, full-time

### Plan of studies SMMG-GLO

Semester of studies	Course code	Course title	ECTS credits
1	210101	History of Economic Thought	4,5
	210111	Business Law	4,5
	222101	Advanced International Economics	4,5
	223171	International Leadership	3,0
	223191	Quantitative and Qualitative Methods in Management Sciences and Economics	7,5
	223241	Natural Environment and Energy: International Conflicts and Cooperation	3,0
	223501	International Financial Management	3,0
	24996	Training on Fundamentals of Intellectual Property Protection (e-learning)	0,0
	24998	Library Training (e-learning)	0,0
	24999	Training on Occupational Health and Safety (e-learning)	0,0
			Total ECTS: 30
2	221371	Cultural Determinants of International Business	3,0
	221641	Technological Environment of International Business	3,0
	221651	Institutional Determinants of International Business	3,0
	222091	Managerial Economics	4,5
	223221	International Entrepreneurship	4,5
	223231	Economics and Management of Innovations	4,5
	223321	Global Poverty, Underdevelopment and Development	3,0
	-	Major, elective and minor courses	4,5
			Total ECTS: 60
3	223201	Economic Diplomacy	3,0
	290001	Master's Seminar - first semester	8,0
	-	Major, elective and minor courses	19,0
			Total ECTS: 90
4	290002	Master's Seminar - second semester	12,0
	-	Major, elective and minor courses	18,0
			Total ECTS: 120

Within the credits for elective courses a student may do internship (90 hours) and obtain 3 ECTS point for it. Trainings (24996, 24999, 24998) are obligatory for students who have not graduated the first-degree studies at SGH Warsaw School of Economics.

## 5 SMMA-IMA: International Master Program in Management Accounting, Graduate, full-time

### 5.1 Basic courses SMMA-IMA: International Master Program in Management Accounting, Graduate, full-time

#### Basic courses SMMA-IMA

Course code	Course title	No of hours	ECTS credits
210111	Business Law	30	4,5

### 5.2 Major courses SMMA-IMA: International Master Program in Management Accounting, Graduate, full-time

#### Major courses SMMA-IMA

Course code	Course title	No of hours	ECTS credits
222161	Business Ethics	30	3,0
220201	Enterprise Risk Management Framework in Action (CIMA)	30	4,0
220091	Financial Analysis and Working Capital Management (CIMA)	45	4,5
220161	Financial Strategy (CIMA)	30	4,0
220031	Fixed Term and Equity Financing (CIMA)	45	4,5
220051	Group Accounting under IRFS (CIMA)	45	4,5
220121	Integrated Business Knowledge - MCS (CIMA)	30	5,0
220131	Integrated Business Knowledge - SCS (CIMA)	30	6,0
220111	Integrated Reporting (CIMA)	15	1,5
220011	International Financial Reporting Standards (CIMA)	30	4,0
220171	Managing Performance (CIMA)	30	4,0
220071	Risk Control and Uncertainty Management (CIMA)	45	4,5
220141	Strategic Management I (CIMA)	30	4,0
220191	Strategic Management: from Available Options to Optimal Choices (CIMA)	30	4,0
220181	Value Enhancement Technics (CIMA)	30	4,0

### 5.3 Major elective courses SMMA-IMA: International Master Program in Management Accounting, Graduate, full-time

#### Major elective courses SMMA-IMA (minimum 15 ECTS to be taken\*)

Course code	Course title	ECTS credits
223051	Advanced Macroeconomics I	4,5
23A1R1	Corporate Governance and Sustainability	5,0
221371	Cultural Determinants of International Business	3,0
231231	Derivatives Market	3,0
220401	Development of Digital Economy 4.0	3,0
238141	Finance for Executives (CEMS, CIMA)	7,5

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**Major elective courses SMMA-IMA (minimum 15 ECTS to be taken\*)**

<b>Course code</b>	<b>Course title</b>	<b>ECTS credits</b>
222041	Financial Econometrics I ( FAP, CIMA)	3,0
222251	Financial Engineering	3,0
223171	International Leadership	3,0
222091	Managerial Economics	4,5
232651	Mergers and Acquisitions of Enterprises	3,0
222131	Public Sector Economics	4,5
26	Lectures of Visiting Professors	3.0

\*Not all the courses have to be opened during a particular academic year.

## 5.4 Plan of studies SMMA-IMA: International Master Program in Management Accounting, Graduate, full-time

### Plan of studies SMMA-IMA

Semester of studies	Course code	Course title	ECTS credits
1	210111	Business Law	4,5
	220011	International Financial Reporting Standards (CIMA)	4,0
	220031	Fixed Term and Equity Financing (CIMA)	4,5
	220071	Risk Control and Uncertainty Management (CIMA)	4,5
	220111	Integrated Reporting (CIMA)	1,5
	220171	Managing Performance (CIMA)	4,0
	220181	Value Enhancement Technics (CIMA)	4,0
	222161	Business Ethics	3,0
	24996	Training on Fundamentals of Intellectual Property Protection (e-learning)	0,0
	24998	Library Training (e-learning)	0,0
	24999	Training on Occupational Health and Safety (e-learning)	0,0
Total ECTS: 30			
2	220051	Group Accounting under IRFS (CIMA)	4,5
	220091	Financial Analysis and Working Capital Management (CIMA)	4,5
	220121	Integrated Business Knowledge - MCS (CIMA)	5,0
	-	Major, elective and minor courses	16,0
Total ECTS: 60			
3	220141	Strategic Management I (CIMA)	4,0
	220161	Financial Strategy (CIMA)	4,0
	220191	Strategic Management: from Available Options to Optimal Choices (CIMA)	4,0
	220201	Enterprise Risk Management Framework in Action (CIMA)	4,0
	290001	Master's Seminar - first semester	8,0
	-	Major, elective and minor courses	6,0
Total ECTS: 90			
4	250161	Company Internship (International Master Program in Management Accounting)	12,0
	290002	Master's Seminar - second semester	12,0
	-	Major, elective and minor courses	6,0
Total ECTS: 120			

Student must complete a 3-months internship (min 360 h, 12 ECTS credits). The Internship may be held in two parts or in one 3-months part. Student should complete the internship before the end of 4th semester. Trainings (24996, 24999, 24998) are obligatory for students who have not graduated the first-degree studies at SGH Warsaw School of Economics.

## 6 SMM2-QEM: Economics, Graduate, full-time

### 6.1 Basic courses SMM2-QEM: Economics, Graduate, full-time

#### Basic courses SMM2-QEM

Course code	Course title	No of hours	ECTS credits
210111	Business Law	30	4,5
210101	History of Economic Thought	30	4,5

As part of the EMJMD QEM (Models and Methods of Quantitative Economics) joint diploma program, the implementation of the indicated subjects (210101 History of Economic Thought, 210111 Business Law) may be replaced by the implementation of other subjects (including subjects offered by other universities in the consortium) indicated by the QEM Program Coordinator.

### 6.2 Major courses SMM2-QEM: Economics, Graduate, full-time

#### Major courses SMM2-QEM

Course code	Course title	No of hours	ECTS credits
221911	Advanced Applied Econometrics (QEM)	60	7,0
221921	Advanced Macroeconomics (QEM)	60	7,0
221951	Advanced Macroeconomics II (QEM)	60	7,0
221931	Advanced Microeconomics (QEM)	60	7,0
221961	Advanced Microeconomics II (QEM)	60	7,0
221941	Advanced Optimization (QEM)	60	7,0
221981	Advanced Probabilistic and Statistical Methods (QEM)	60	7,0
221971	Game Theory II	45	5,0

### 6.3 Major elective courses SMM2-QEM: Economics, Graduate, full-time

#### Major elective courses SMM2-QEM (minimum 15 ECTS to be taken\*)

Course code	Course title	ECTS credits
230381	Advanced Behavioral Economics	4,5
232401	Advanced Labor Economics (QEM)	3,0
222801	Advanced Optimization Methods	6,0
233531	Advanced R Programming	3,0
234061	Advanced Simulation Modelling	3,0
220621	Artificial Intelligence	3,0
237811	Basic C++ Programming	3,0
220521	Basic R Programming	1,5
230201	Bayesian Econometrics	3,0
223091	Big Data	3,0
224391	Cloud Computing	3,0
223121	Data Mining	3,0

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**Major elective courses SMM2-QEM (minimum 15 ECTS to be taken\*)**

<b>Course code</b>	<b>Course title</b>	<b>ECTS credits</b>
236481	Database Application Building. PL/SQL language	3,0
231231	Derivatives Market	3,0
222121	Development Economics	4,5
222991	Econometrics of Panel Data	3,0
222041	Financial Econometrics I ( FAP, CIMA)	3,0
233181	Financial Econometrics II	6,0
235221	Financial Risk Management and Derivatives	4,5
233461	General Equilibrium Models	3,0
231571	Growth Theory (QEM)	3,0
231271	Industrial Economics (QEM)	3,5
222111	Labour Economics	4,5
234891	Macroeconomic Modeling (QEM)	3,0
231291	Macroeconomics and Household Heterogeneity (QEM)	3,0
220341	Microeconometrics	3,0
234881	Monetary Economics (QEM)	3,0
236811	Numerical Methods	3,0
222131	Public Sector Economics	4,5
220541	Python Programming	3,0
223101	Querrying, Data Presentation, Data Visualisation and Reporting	3,0
222891	Real-Time Analytics	3,0
230891	Spatial Econometrics	3,0
223491	Statistical Learning Methods	6,0
230781	Theory of Decision I	3,0
222061	Time Series Econometrics	6,0
26	Lectures of Visiting Professors	3.0

\*Not all the courses have to be opened during a particular academic year.As part of the EMJMD QEM (Models and Methods of Quantitative Economics) joint diploma program, student can take other courses (including those offered by other universities in the QEM consortium) indicated by the QEM Program Coordinator.

## 6.4 Plan of studies SMM2-QEM: Economics, Graduate, full-time

### Plan of studies SMM2-QEM

Semester of studies	Course code	Course title	ECTS credits
1	201_8	Foreign Language - Graduate full-time	2,0
	221921	Advanced Macroeconomics (QEM)	7,0
	221931	Advanced Microeconomics (QEM)	7,0
	221941	Advanced Optimization (QEM)	7,0
	221981	Advanced Probabilistic and Statistical Methods (QEM)	7,0
	Total ECTS: 30		
2	201_8	Foreign Language - Graduate full-time	2,0
	221911	Advanced Applied Econometrics (QEM)	7,0
	221951	Advanced Macroeconomics II (QEM)	7,0
	221961	Advanced Microeconomics II (QEM)	7,0
	221971	Game Theory II	5,0
	-	Major, elective and minor courses	2,0
Total ECTS: 60			
3	201_8	Foreign Language - Graduate full-time	2,0
	-	Major, elective and minor courses	28,0
	Total ECTS: 90		
4	201_8	Foreign Language - Graduate full-time	2,0
	290001	Master's Seminar - first semester	8,0
	290002	Master's Seminar - second semester	12,0
	-	Major, elective and minor courses	8,0
	Total ECTS: 120		

Trainings (24996, 24999, 24998) are obligatory for students who have not graduated the first-degree studies at SGH Warsaw School of Economics.