

II.3. Plan of studies

FIELD OF STUDY: ADVANCED ANALYTICS – BIG DATA				
Groups of courses			No of hours	Total ECTS credits
			ST ¹ , NP ²	
1. Basic courses			60	9
2. Major courses			450	49,5
3. Elective courses <i>Including courses related to Advanced Analytics – Big Data</i>			390 <i>150</i>	40,5 <i>15</i>
4. Physical Education			30	1
5. Master's Seminar			60	20
Total			990	120
Semester of studies ³	Course code	Course title	No of hours	ECTS credits
1 st	223111	Basic and Advanced Programming in SAS with Statistics	30	3
	210111	Business Law	30	4,5
	223061	Databases Build and Exploitation	30	3
	223121	Data Mining Basic and Advanced with Text Mining	30	3
	210101	History of Economic Thought	30	4,5
	222081	Institutional Economics	30	4,5
	222111	Labour Economics	30	4,5
	223101	Querrying, Data Presentation, Data Visualisation and Reporting	30	3
	Total		240 ⁴	30
2 nd	223051	Advanced Macroeconomics I	30	4,5
	222801	Advanced Optimization Methods	60	6
	223091	Big Data	30	3
	223491	Statistical Learning Methods	60	6
		Elective courses	120	10,5
	Total		300	30
3 rd	223071 <i>or</i> 223081	Data Warehouses II <i>or</i> Graph Theory and Social Networks	30	3
	223481	Logistic Regression with SAS	30	3
	210121	Physical Education	30	1
		Elective courses	120	15
	29...	Master's Seminar	30	8
	Total		240	30
4 th	22347	Event History Analysis With SAS	30	3
		Elective courses	150	15
	29...	Master's Seminar	30	12
	Total		210	30
Total			990	120

¹ ST – full time studies.

² NP – part time studies, afternoon mode.

³ Student may pursue one semester of his/her studies at another Polish or foreign university.

⁴ All students who have not graduated from the first-degree studies at the Warsaw School of Economics are obliged during their first semester of studies to take the following courses: Intellectual Property Protection – Rudiment (4 hours, e-learning), Occupational Health and Safety (BHP) Training (5 hours, e-learning), IT Training (2 hours) and Library Training (2 hours, e-learning).