

«Data Analytics in Accounting and Finance (18 Months/90 ECTS, Master of Science)»

TABLE 2: COURSE DISTRIBUTION PER SEMESTER

A/A	Course type	Course title	Course code	Periods per week	Period duration	Number of weeks/ Semester	Total periods/ Semester	Number of ECTS
1st Semester								
1.	Compulsory	Fundamentals of Finance	AEM610	3	50	14	42	10
2.	Elective		---	3	50	14	42	10
3.	Elective		---	3	50	14	42	10
2nd Semester								
4.	Compulsory	Advanced International Financial Reporting	AEM630	3	50	14	42	10
5.	Compulsory	Quantitative Methods in Accounting and Finance	AEM640	3	50	14	42	10
6.	Elective		---	3	50	14	42	10
3rd Semester								
7.	Compulsory	Analytics in Accounting and Finance	AEM650	3	50	14	42	10
8.	Compulsory	Computational Finance	AEM660	3	50	14	42	10
9.	Compulsory	Applied Financial Analysis and Valuation	AEM670	3	50	14	42	10

Elective Courses		
Selection of three (3) courses from the list below		
AEM600	Financial and Managerial Accounting	10
AEM620	Principles of Programming for Python	10
AEM625	Principles of Programming for R	10
AEM675	Principles of Machine Learning	10

AEM680	Principles of Artificial Intelligence	10
MBC630	Ethics and Corporate Social Responsibility	10
MBC650	Investment and Risk Management	10
One Elective course from another relevant Master Program of the University. Only one (1) course of this provision may be selected by the student (of at least same number of ECTS) throughout the completion of the program requirements, with the program coordinator's approval.		10

Compulsory/Elective Courses based on Admitted Students Background:

For Students with Accounting Background			
A/A	Course type	Course title	Course code
1st Semester			
1.	Compulsory	Fundamentals of Finance	AEM610
2.	Elective	Principles of Programming for R	AEM625
3.	Elective	(any other except of AEM600 and AEM620)	----
2nd Semester			
4.	Compulsory	Advanced International Financial Reporting	AEM630
5.	Compulsory	Quantitative Methods in Accounting and Finance	AEM640
6.	Elective	Principles of Programming for Python	AEM620
3rd Semester			
7.	Compulsory	Analytics in Accounting and Finance	AEM650
8.	Compulsory	Computational Finance	AEM660
9.	Compulsory	Applied Financial Analysis and Valuation	AEM670

For Students with IT/Science Background (with knowledge in Python or/and R)			
A/A	Course type	Course title	Course code
1st Semester			
1.	Compulsory	Fundamentals of Finance	AEM610
2.	Elective	Financial and Managerial Accounting	AEM600
3.	Elective	AEM620 or AEM625 or any other	---
2nd Semester			
4.	Compulsory	Advanced International Financial Reporting	AEM630
5.	Compulsory	Quantitative Methods in Accounting and Finance	AEM640
6.	Elective	AEM620 or AEM625 or any other	---
3rd Semester			
7.	Compulsory	Analytics in Accounting and Finance	AEM650
8.	Compulsory	Computational Finance	AEM660
9.	Compulsory	Applied Financial Analysis and Valuation	AEM670

For Students with Other Background			
A/A	Course type	Course title	Course code
1st Semester			
1.	Compulsory	Fundamentals of Finance	AEM610
2.	Elective	Financial and Managerial Accounting	AEM600
3.	Elective	Principles of Programming for R	AEM625
2nd Semester			
4.	Compulsory	Advanced International Financial Reporting	AEM630
5.	Compulsory	Quantitative Methods in Accounting and Finance	AEM640
6.	Elective	Principles of Programming for Python	AEM620
3rd Semester			
7.	Compulsory	Analytics in Accounting and Finance	AEM650
8.	Compulsory	Computational Finance	AEM660
9.	Compulsory	Applied Financial Analysis and Valuation	AEM670