NOTICE

Undergraduate Handbook Academic Year (2019/2020)

Students are informed to refer following annex 8 and annex 9 instead of the annex 8 and 9 given in the Students Handbook

Deputy Registrar
Faculty of Science
14/02/2020

ANNEX 8 - IS 1: Industrial Statistics & Mathematical Finance - Level I

Semester	Pre-requisite	Course Unit	Title	Credit Value	Hours	
S1		IS 1006	Fundamentals of Statistics	3	30 L 30 P	X
		IS 1007	Introduction to Statistical Computing	1	30 P	O
S2		IS 1008	Introduction to Probability and Distributions	3	45 L	X
		IS 1009	Introduction to Survey Design	2	15 L 30 P	O
S1		FM 1011	Financial Mathematics I	2	30 L	X
		FM 1013	Linear programming	2	30 L	O
		PM 1011	Foundations of Mathematics	2	30 L	X
S2		FM 1012	Mathematical Methods for Finance I	2	30 L	O
		FM 1014	Computational Financial mathematics I	2	60 P	O
	PM 1011	PM 1013	Basic Analysis I	2	30 L	X
S1		MS 1011	Computing for Finance*	1	30 P	X
		MS 1001	Principles of Management	1	15 L	X
S2		MS 1012	Mathematical Economics*	2	30 L	X
		MS 1003	Operational Research I	2	30 L	X
S1		CS 1102	Introduction to Computing	3	45 L	X
S2		CS 1101	Fundamentals of Programming	3	30 L 30 P	X

X: Core courses   ■: Compulsory courses   O: Elective courses   L: Lectures   P: Practicals / Labs

*MS Courses offered by the Department of Mathematics.

Note:

1. Students must offer all core courses from IS, FM, and MS disciplines during Level I and Level II.
2. Students must select at least 2 electives from each of IS and FM disciplines during Level I and Level II.

ANNEX 9 - IS 2: Industrial Statistics & Mathematical Finance - Level II

Semester	Pre-requisite	Course Unit	Title	Credit Value	Hours	
S1		IS 2005	Statistical Packages	1	30 P	X
		ST 2006	Basic Statistical Inference	3	45 L	X
S2	ST 2006	IS 2003	Design and Analysis of Industrial Experiments	2	30 L	X
		ST 2009	Applied Non-Parametric Methods	2	30 L	O
		ST 2010	Introduction to Statistical Modelling	1	15 L	O
S1	FM 1101	FM 2101	Financial Mathematics II	2	30 L	O
		FM 2102	Linear Algebra	2	30 L	O
		PM 2101	Basic Analysis II	2	30 L	X
S2	FM 1011	FM 2013	Actuarial Mathematics I	2	30 L	X
	FM 1014	FM 2014	Computational Financial Mathematics II	2	60 P	O
		PM 2012	Basic Analysis III	2	30 L	X
S1		MS 2011	Numerical Methods for Finance*	2	20 L 20 P	X
		MS 2001	Statistical Quality Control	2	30 L	X
S2		MS 2012	Introduction to Insurance*	1	15 L	X
		MS 2004	Introduction to Marketing Research	1	15 L	X
S1		CS 2001	Internet Topologies	3	30 L 30 P	X
S2		CS 2002	Fundamentals of Software Engineering	3	45 L	X

X: Core courses   ■: Compulsory courses   O: Elective courses   L: Lectures   P: Practicals / Labs

*MS Courses offered by the Department of Mathematics.

Note:

1. Students must offer all core courses from IS, FM, and MS disciplines during Level I and Level II.

2. Students must select at least 2 electives from each of IS and FM disciplines during Level I and Level II