



<b>SUBJECT: LIFE CONTINGENCIES</b>		
<b>MASTER DEGREE: ACTUARIAL SCIENCE</b>	<b>ECTS: 6.0</b>	<b>QUARTER: 1</b>

<b>TIMETABLE FOR THE SUBJECT</b>								
<b>WEEK</b>	<b>SESSION</b>	<b>DESCRIPTION OF EACH SESSION</b>	<b>GROUP (X mark)</b>		<b>Indicate if a different lecture room is needed (computer, audiovisual, etc.)</b>	<b>HOMEWORK PER WEEK</b>		
			<b>1</b>	<b>2</b>		<b>DESCRIPTION</b>	<b>ATTENDING HOURS</b>	<b>HOMEWORK Max. 7H/WEEK</b>
1	1	Assurances: cash-flow signature and valuation I	x			Design of examples of assurance contracts	3	6
2	1	Assurances: cash-flow signature and valuation II	x			Design of examples of assurance contracts	3	6
3	1	Annuities: cash-flow signature and valuation I	x			Design of examples of annuity contracts	3	6
4	1	Annuities: cash-flow signature and valuation II	x			Design of examples of annuity contracts	3	6
5	1	Efficient moments calculation using mortality tables	x			Examples of efficient expansions	3	6



6	1	The Central limit Theorem and life insurance business quantitative foundations	x			Discount value probability distributions for various portfolios	3	6
7	1	Models with expenses. Premium calculation.	x			Examples of with-expenses premium calculation	3	6
8	1	Future net liabilities and reserves.	x			Examples of reserves estimations for various contracts	3	6
9	1	Multiple contingencies models. Introduction and basic contracts	x			Valuation of premiums and reserves of disability contracts	3	6
10	1	Working compensation schemes(wcs)	x			Design and premiums and reserves calculations of WCS	3	6
11	1	Widowhood contracts(wc)	x			Design and premiums and reserves calculations of WC		
12	1	Orphanage contracts and endowments	x			Design and premiums and reserves calculations		



13	1	VBA applications seminar	x			VBA calculation modules	3	7
14	1	Exam preparation seminar				Review of previous exams and types of questions	3	7
<b>TOTAL HOURS</b>								