Figure 6.4 Abbreviated Course Syllabus

Internet Finance :11013E0005 Economic mathematics Ⅰ

Course Number:	11013E0005
Course Name:	Economic mathematics Ⅰ
Instructors:	Yu Haibo, Chen Fengxia, Chen Juan
Students:	Internet Finance Cohort 2022
Required Text:	*Applied economic Mathematics* (top). Duan Yuan. Beijing Institute of Technology Press. In August, 2020
Course Description:	Economic Mathematics I is an important compulsory basic course for students majoring in management and economics in colleges and universities. Students by learning each teaching link of the function of calculus basic knowledge, basic theory, learn to use the combination of qualitative and quantitative method to deal with economic problems, has the ability of preliminary abstract generalization, a certain logical reasoning ability, more skilled operation ability and self-study ability, improve the comprehensive use of knowledge to analyze and solve problems ability. This course not only provides the necessary mathematical tools for the subsequent courses, but also is the most important way to cultivate the college students' mathematical literacy and rational thinking ability of economic management.

Topic Outline:		Hours/Minutes
I.	Limit and continuity	18
A.	Function and common economic functions	
B.	limit of a function	
C.	Infinite large quantities and infinitesimal quantities	
D.	Two important limits	
E.	continuity of function	
II.	Differential calculus of unary functions	28
A.	The concept of derivative	
B.	The computation of the derivative	
C.	Differences of functions	
D.	Differential median theorem	
E.	L' Hospital rule	
F.	Extreme and values of the function	
G.	The most value of the economy	
H.	Marginal and elastic	
III.	indefinite integral	12
A.	Original function with indefinite integrals	

IV.	Exam	2
	Total Sessions (Coverage Hours)	60

Summary of UG CPC Topics Covered in this Course:		Hours/Minutes
a.	Marketing	0
b.	Finance	0
c.	Accounting	2
d.	Management	0
e.	Legal environment of Business	0
f.	Economics	12
g.	Business Ethics	2
h.	Global Dimensions of Business	4
i.	Business Communications	4
j.	Information System	0
k.	Quantitative Techniques and Statistics	30
l.	Business Policies	6
m.	Comprehensive or Integrating Experience	0
	Total Estimated CPC Coverage Hours	60