

Orientation Course: Business Mathematics

Aim of the course is to refresh, revise and practice fundamental concepts of mathematics that have direct application in business and economic studies. Mainly, fundamental concepts on functions, differentiation, integration, financial mathematics will be elaborated. Students will be provided with relevant exercises to apply these fundamental concepts in a self-study environment. As a follow-up students are highly encouraged to share their solutions and to ask for a further elaboration, if necessary. I prefer an active participation and interaction from my students. As I am mainly an economist, I deal with theoretical and statistical modelling using various software. You are welcome (not compelled) to acquaint yourself with these advanced techniques with me. This is also applicable to a general discussion on economic theories and methods. Altogether, welcome to our Rhein-Waal University!

Literature

- Soper, Jean (2004) *Mathematics for Economics and Business: An Interactive Introduction*. 2nd Edition WilleyBlackwell
- Chiang, A. C., et al (2005) *Fundamental Methods of Mathematical Economics*. 4th international Ed., New York: McGraw Hill
- Deitz, J.E. and Southam, J.L. (2006) *Contemporary Business Mathematics for Colleges*. 14th Edition Thomson South-Western

Structure of the course

Section	Theme
1	Introduction to the course – formalism in social sciences
2	Functions – fundamentals and application
3	Differentiation – fundamentals and applications
4	Integration – fundamentals and applications
5	Financial mathematics – fundamentals and applications

Guidelines

- Due to the pandemic, mode of teaching will be online. Thus, teaching videos of sessions, and slides will be uploaded. Therefore, our main interaction opportunity for this course will be on appointment basis (and on need basis).
- I highly encourage you to take advantage of this one-on-one session opportunity and be prepared and structured in your follow-up questions due to time limitations. I am accessible.
- [Important links will be shared via email.](#)

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Important dates and links

Date	Content	Platform/link
09.09.2021	<ul style="list-style-type: none">▪ Availability of the course content– Lecture videos– Slides– Exercises (<i>without solution</i>)	Sciebo (cloud) A link will be shared.
13.09.2021 – 24.09.2021	<ul style="list-style-type: none">▪ Self-study period (<i>You are encouraged to apply yourself</i>)	
24.09.2021	<ul style="list-style-type: none">▪ Exercises with solutions	Sciebo (cloud)
27.09.2021 – 08.10.2021	<ul style="list-style-type: none">▪ Online consultation opportunities	1. Via email 2. Webex