



UNIVERSITAS PENDIDIKAN NASIONAL (UNDIKNAS UNIVERSITY)
FACULTY OF BUSINESS AND ECONOMICS

Jl. Bedugul No. 39 Sidakarya Denpasar, Telp (0361) 723868 Fax. (0361) 723077 Kode Pos (3261) 225

SYLLABUS

MATHEMATICS FOR BUSINESS

COURSE CODE: 181201

ECTS: 5

SEMESTER AND YEAR OFFERED: SEMESTER 1/ YEAR 1

LECTURER: IR. AGUS PUTU ABIYASA PH.D., IPM

1. DESCRIPTION

Mathematics for Business is a subject, which teaches students how to simplify and analyze economics and business problems.

2. Expected Learning Outcomes

At the end of the course, students will be able to understand the mathematics analysis tools to solve many problems regarding economics, such as: demand/supply, break even point, elasticity, and consumer and producer surplus.

3. REFERENCES

Compulsory:

1. Alpha C. Chiang and Kevin Wainwright. Fundamental methods of mathematical economics

4. METHOD OF ASSESSMENT

No.	Assessment	Marks
1.	Mid-term Test	10 %
2.	Final Test	15 %
3.	Individual assignment	35 %
4.	Group assignment	15 %
5.	Active participation in discussion	25 %
	Total	100%

Vision:

Becoming a superior study program in 2020 as a center for human resource development in the field of accounting that is professional, global-minded, and has entrepreneurial spirit based on the concept of Tri Hita Karana.

5. UNIT GUIDE AND STUDY PLANNER

Meeting	Module Topic
1	Introduction to Economic Mathematics: The Nature of Mathematical Economics
2	The Concept of Sets and Real-Number System
3	Relations and Functions
4	Equations of Straight Line
5	Linear Functions and Its Applications in Economy
6	Break Even Point
7	Consumptions and Saving Function
8	Mid-term Test
9	Differential
10	Differential and Gradients
11	Extreme Value
12	Differential Application in Economy
13	Integral
14	Integral Application in Economy
15	Quiz
16	Final Test

6. WORKLOAD

MATHEMATICS FOR BUSINESS

16 weeks

		Weeks per semester																TOTAL hrs
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
INDEPENDENT WORK	Homework, assignments	2	2	2	2	2	2	2			2	2	2	2	2	2		24
	Workshops			4				4										8
	Exam preparation							9								10		19
	Company visits, excursions																	0
	Preparation for presentations and papers			2		2		2			2		2		2			12
	Preparation for class	2	2	2	2	2	2	2			2	2	2	2	2	2	2	24
	Follow-up for class	1	1	1	1	1	1	1			1	1	1	1	1	1	1	12
	Final essay paper																10	10
	Course evaluation																2	2
	Workshops and Excursion Paper				2				2									4
																	115	
HRS OF EXAMS									2							2	4	
MANDATORY CLASS ATTENDANCE	Class Weekly hrs ~ 2	2	2	2	2	2	2	2			2	2	2	2	2	2	26	
		TOTAL WORKLOAD PER COURSE (HOURS)																145
		TOTAL ECTS																5

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