

## Course Syllabus

1. Course Code : 050 243
2. Credits : 3 (3-0-6)
3. Course Name : Business Quantitative Analysis
4. Khon Kaen University, International College
5. Course Co-ordinator : Name : Thomas Vulsma  
 Position&Affiliation : Lecturer  
 Office Phone :  
 Mobile phone : 080-239-2067  
 Facsimile :  
 Email : thomvu@kku.ac.th  
 Office hours : 7:30 – 9:00 Mon-Thu
6. Course Instructor(s) : 6.1 Name : Thomas Vulsma  
 Position&Affiliation : Lecturer  
 Office Phone :  
 Mobile phone : 080-239-2067  
 Facsimile :  
 Email : thomvu@kku.ac.th  
 Office hours : 7:30 – 9:00 Mon-Thu
7. Prerequisite : 050 241
8. Elective/General Education/Core / Compulsary Course
9. Course description: Concepts of quantitative analysis methods, using spreadsheets, probability concepts, central limit theorem, forecasting, linear programming, transport and assignment problems network models, project management with PERT and CPM, inventory decisions
10. Course objectives: Students should learn basic quantitative analysis used in business. Students should be able to carry out simple analyses using excel as a tool.
11. Course contents

	Topics	Hours
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		Lecture	Others
1	Introduction to BQA	3	3
2	Using spreadsheets	6	6
3	Probability	6	6
4	Decision making and Expected Value	6	6
5	Forecasting	6	6
6	Linear programming	6	6
7	Transportation and assignment problems	6	6
8	PERT and CPM	6	6
Total		<b>45</b>	<b>45</b>

12. Learning and teaching approaches

13. Learning materials

14. Evaluation

No.	Criteria	%
	Final Exam	40
	Quizzes	40
	Homework	20
	Total	100

15. Eight Grades Evaluation

A = 80-100 % ; B<sup>+</sup> = 75-79; B = 70-74; C<sup>+</sup> = 65-69; C = 60-64; D<sup>+</sup> = 55-59;  
D = 50-54; F = below 50

16. Learning resources

17. Lesson Plan

Week/Date	Topics	Objectives	Learning Activities	Learning Materials	Evaluation	Lecturer/Hour
1	Introduction to BQA	See handbook	Exercises and demonstrations	Student guidebook	Quiz and Final Exam	Thomas Vulsma
2	Using spreadsheets	See handbook	Exercises and demonstrations	Student guidebook	Quiz and Final Exam	Thomas Vulsma
3	Probability	See handbook	Exercises and demonstrations	Student guidebook	Quiz and Final Exam	Thomas Vulsma
4	Decision making and Expected Value	See handbook	Exercises and demonstrations	Student guidebook	Quiz and Final Exam	Thomas Vulsma
5	Forecasting	See handbook	Exercises and demonstrations	Student guidebook	Quiz and Final Exam	Thomas Vulsma
6	Linear	See	Exercises and	Student	Quiz and	Thomas

	programming	handbook	demonstrations	guidebook	Final Exam	Vulsma
7	Transportation and assignment problems	See handbook	Exercises and demonstrations	Student guidebook	Quiz and Final Exam	Thomas Vulsma
8	PERT and CPM	See handbook	Exercises and demonstrations	Student guidebook	Quiz and Final Exam	Thomas Vulsma

## 18. References