

TQF.3 Course Specification

Course Code: IBP 1203

Course Title: Business Statistics

Credits : 3(3-0-6)

Semester/Academic Year : 3/ 2563

Students : Bachelor of Business Administration Program in
International Business

Lecturers : Asst.Prof. Dr. Krongthong Khairiree
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**Revised
May, 2021**

Lesson Plan and Assessment

1. Lesson Plan

Week	Topic/Outline	Hours	Learning Activities and Medias
1	<ul style="list-style-type: none"> • Course Outline • Pretest • Statistics methods • Statistics and Data Collection 	3	<ul style="list-style-type: none"> • Lecture and group discussion • Student-centered: Problem Solving and Cooperative learning • Individual assessment
2	<ul style="list-style-type: none"> • Data presentation <ul style="list-style-type: none"> ○ Histogram, frequency polygons and frequency Curve ○ Bar chart, Line graph, and Pie chart ○ Stem-and-leaf Plot • Data presentation using computer software program 	3	<ul style="list-style-type: none"> • Flipped classroom approach • Student-centered: Problem Solving and Cooperative learning • Using mathematics software program • Hands on activities • Data presentation using computer software program such as Excel, SPSS,
3	<ul style="list-style-type: none"> • Population and Sample • Data and data collection • Introduction to Descriptive Statistics • Measure of Central Tendency • Stem and leaf Plot, Box Plot • Data presentation using computer software program 	3	<ul style="list-style-type: none"> • Lecture and group discussion • Student-centered: Problem-Based learning and Cooperative learning approaches • Data presentation using computer software program such as Excel, SPSS, • Self-study and E-learning through Moodle
4	<ul style="list-style-type: none"> • Measurement of dispersions: • Standard deviation • Variance • Summation notation • Data analysis using computer software program 	3	<ul style="list-style-type: none"> • Lecture and group discussion • Problem Solving and Cooperative learning • Using mathematics software program: Excel/SPSS • Self-study through Moodle
5	<ul style="list-style-type: none"> Measurement of dispersions: • Scatter diagram • Coefficient of correlation • Project Work Assignment • Data analysis using computer software program 	3	<ul style="list-style-type: none"> • Problem Solving and Cooperative learning • Using mathematics software program: SPSS • Self-study and E-learning through Moodle

Week	Topic/Outline	Hours	Learning Activities and Medias
6	<ul style="list-style-type: none"> • Linear Regression • Data collection • Using smartphone/ software program for Regression 	3	<ul style="list-style-type: none"> • Problem Solving and Cooperative learning • Using mathematics smartphone/software program: SPSS • Self-study and E-learning through Moodle
7	<ul style="list-style-type: none"> • Mid-Term Test • Financial Literacy and FinTech • Project Work assignment: <ul style="list-style-type: none"> ○ Statistics and Data Collection ○ Data analysis using software program 	3	<ul style="list-style-type: none"> • Paper and pencil Test • Financial Literacy and data collection on FinTech application through smartphone • Student-centered: Problem-Based learning and Cooperative learning
8	<ul style="list-style-type: none"> • Probability and Tree diagram • Conditional probability • Project Work Assignments & Activities 	3	<ul style="list-style-type: none"> • Student-centered: Problem-Based learning and Cooperative learning • Self-study and E-learning through Moodle
9	<ul style="list-style-type: none"> • Probability Distribution and Random variable • Normal Distribution • The Standard Normal Distribution • Data analysis using software program 	3	<ul style="list-style-type: none"> • Lecture and group discussion • Student-centered: Problem-Based learning and Cooperative learning approaches • Self-study and E-learning through Moodle
10	<ul style="list-style-type: none"> • Introduction to Inferential Statistics • Sampling method, • Sample size 	3	<ul style="list-style-type: none"> • Lecture and group discussion • Student-centered: Problem-Based learning and Cooperative learning approaches • Self-study and E-learning through Moodle
11	<ul style="list-style-type: none"> • Confidence Interval • Estimation-1 • Data analysis using software program 	3	<ul style="list-style-type: none"> • Lecture and group discussion • Student-centered: Problem-Based learning using mathematics software program: SPSS • Self-study and E-learning through Moodle
12	<ul style="list-style-type: none"> • Hypothesis Testing -1 • Students' Project Work Assignments & Activities 	3	<ul style="list-style-type: none"> • Using mathematics software program: SPSS • Self-study and E-learning through Moodle.

Week	Topic/Outline	Hours	Learning Activities and Medias
13	<ul style="list-style-type: none"> • Hypothesis Testing -2 • Students' Project Work Assignments & Activities 	3	<ul style="list-style-type: none"> • Lecture and group discussion • Student-centered: Problem-Based learning • Using mathematics software program: SPSS • Self-study and E-learning through Moodle Lecture and group discussion
14	<ul style="list-style-type: none"> • Non-parametric -1 • Students' Project Work Assignments & Activities 	3	<ul style="list-style-type: none"> • Student-centered: Problem-Based learning and Cooperative learning • Self-study and E-learning through Moodle
15	<ul style="list-style-type: none"> • Non-parametric -2 • Students' Project Work Assignments & Activities 	3	<ul style="list-style-type: none"> • Student-centered: Problem-Based learning and Cooperative learning • Self-study and E-learning through Moodle
16	<ul style="list-style-type: none"> • Mark up classes • Problem-Based Learning and data collection • Students' Project Work Assignments & Activities 	3	<ul style="list-style-type: none"> • Student-centered: Problem-Based learning and Cooperative learning • Using mathematics software program: SPSS • Self-study and E-learning through Moodle Lecture and group discussion
17	Final Examination and submission Project Assignment	3	

2. Learning Assessment Plan

Learning Outcomes	Assessment Activities	Time Schedule (Week)	Proportion for Assessment (%)
1. Ethics and Morals To have ethic behavior (personal responsibility, corporate responsibility) and moral reasoning.	1. Individual portfolio 2. Group discussion	Throughout semester	5 %
2. Knowledge (1) possess knowledge on descriptive statistics and inferential statistics; (2) competency skills in doing computer software program such as Excel, SPSS, and Fathom; (3) gain knowledge on research-based learning, and problem-based learning in business using real life problems; (4) competency skills in using statistics software program	1. Project work and Term papers 2. Project work designed using as Excel/ SPSS; 3. Group report presentation	Throughout semester	40 %
3. Cognitive Skills (1) To organize activities that promote learning and classify the learners' levels based on evaluation. (2) To create project work assignment on Business Statistics using software program.	1. Project work and Term papers 2. Project work designed 3. Group report presentation	Through out semester	40 %
4. Interpersonal Skills and Responsibilities (1) Have responsibility for work assignment : Design project work in business statistics using software (2) Positive interdependence, accountability and posses social skills	1. Checklists 2. Observation 3. Interviews	Through out semester	5 %

<p>5. Numerical Analysis, Communication and Information Technology Skills</p> <p>(1) Have statistics skills to analyse and solve problems in business</p> <p>(2) Able to create data presentation using software and self learning through E-learning and Moodle.</p> <p>(3) able to use correct language in oral and written presentations.</p> <p>(4) competency in using computer and IT to search for new knowledge through various search engines.</p>	<p>1. Project work and Term papers</p> <p>2. Project work designed using computer software program</p> <p>3. Group report presentation</p> <p>4. Individual portfolio</p>	<p>Through out semester</p>	<p>10 %</p>
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3. Learning and Teaching Resources

Textbook and Main Documents

- 1) TextBook:
 - Aczel, A.D., Sounderpandian, J. (2006) *Complete Business Statistics* 6 Ed. Boston: McGraw Hill Inc.
 - Kohler, H. (2002) *Statistics for Business and Economics*. USA: Thomson Learning, Inc.
 - Newbold, P.Carson, W.L. & Thorne, B. (2007). *Statistics for Business and Economics* 6 Ed. NJ: Pearson Education, Inc.
- 2) Handout & lecture notes

Conditions:

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| 1) Project Assignments, Activities and Attendance | 50 % |
| 2) Midterm Test | 20% |
| 3) Final Examination | 30% |