I. DESKRIPSI MATA KULIAH

This subject presents principles and methods of conducting quantitative research. It begins with a comparison between quantitative and qualitative studies and strengths and weaknesses of each approach. Then it moves to the discussion on the quantitative approach. The subject includes both theories and practices. The delivery of the materials employs some techniques such as lecturing, discussion, individual work, and group work. Students are to submit quantitative research proposals at the end of the semester, and their achievement is assessed through their classroom participation, home assignments, mid and final tests, and individual proposals.

II. STANDARISASI KOMPETENSI MATA KULIAH

Upon completion of this subject, students are expected to understand:
- differences between quantitative and qualitative approaches
- strengths and weaknesses of each approach
- principles of the quantitative approach
- methods or techniques commonly employed in quantitative research, and
- steps in conducting quantitative research

III. POKOK BAHASAN DAN RINCIAN POKOK BAHASAN

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<tr>
<th>Minggu Ke</th>
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<th>Rincian Pokok Bahasan</th>
<th>Waktu</th>
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<tr>
<td>1</td>
<td>Introduction</td>
<td>Description of the course, the competence students have to acquire, the teaching and learning process, and assignments</td>
<td>100 minutes</td>
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<tr>
<td>2</td>
<td>Research: Its nature and characteristics General methodology: Qualitative and quantitative research</td>
<td>Explanation of research terms and research approaches and their characteristics</td>
<td>100 minutes</td>
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<tr>
<td>3</td>
<td>Strengths and weaknesses of each</td>
<td>Explanation of strengths and weaknesses of both quantitative and qualitative approaches</td>
<td>100 minutes</td>
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### Quantitative Research Questions

- Descriptive, comparative, correlational

### Types of Quantitative Research

- Survey, experimental, ex post facto

### Variables

- Concept, types (dependent, independent, control, moderator)

### Hypothesis

- Formulation, types (research, alternative, null, directional, non-directional)

### Mid Semester Test

- Review of the materials

### Sampling Techniques

- Population, sample, probability and non-probability sampling techniques

### Data Collection

- Techniques commonly employed to collect quantitative data (tests, questionnaires)

### Data Analysis

- Descriptive statistics (mean, mode, median, standard deviation, range), normal curve
- Inferential statistics (product moment correlation, multiple regression, t-test, analysis of variance)

### Reliability and Validity

- Interrater, intrarater, internal consistency, split half, KR 20, KR 21, Cronbach’s Alpha, internal validity, external validity, content validity, construct validity, criterion-related validity

### Proposal Writing

- Components of a quantitative research proposal

### Review

- Discussion on the previously delivered materials
IV. REFERENSI/ SUMBER BAHAN

A. Wajib


B. Anjuran


V. EVALUASI

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