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| 1. Course Identity | | | |
| Course Name/Block | Operation Research Methodology | | |
| Faculty | Business and Economics | **Study Program** | Management |
| Code | SEM629 | **Credits** | 3 |
| Group | Within Study Program | **Enrollment** | Compulsory |
| Semester(s) in which the course is taught | 6 | **Availability** | Limited |
| Learning Method | Classroom Learning and Practicum at Computer Lab | **Media** | Blended |
| Category |  | **Prerequisites** |  |

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| 2. Course Description |
| This course discusses how to design and conduct research and how to write a research report. The activities of designing research include: finding research problems, conducting a literature review to make hypotheses as temporary answers to the research problems, and designing research methods to test the hypotheses. The activities of conducting research include: collecting data, analyzing data, and drawing conclusions based on the findings and hypothesis. Data analysis is taught quite comprehensively, especially the analysis that is specific to research in operations. A research report is a writing that describes the entire series of research activities, starting from identifying research problems to drawing conclusions based on the hypothesis testing. |

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| 3a. GRADUATE LEARNING OUTCOMES (CPL) | |
| CPL Code | **CPL** |
| S1 | Being devoted to God Almighty and having a good moral character |
| S3 | Internalizing values, norms, and ethics that prioritize integrity, honesty, responsibility, and trust in carrying out the profession |
| S7 | Being disciplined and law-abiding as a part of social and state life |
| PP2 | Mastering the rules, principles, and techniques of cross-functional communication, organizational level, and culture to be able to communicate effectively across functions and across organizational levels |
| PP3 | Mastering at least one international language |
| PP4 | Mastering research method concepts including case studies, historical research, surveys, simulations, as well as qualitative and quantitative experiments, in the form of exploratory, descriptive, and verificative research and being able to implement at least 1 research method. |
| KU3 | Having the ability to identify managerial problems and organizational functions at the operational level, and take appropriate measures according to the developed alternatives, by implementing local wisdom-rooted entrepreneurial principles |
| KU6 | Establishing and maintaining networking with supervisors, colleagues, peers both inside and outside the institution |
| KK4 | Having the ability to think "out of the box" in implementing the value ​​of perfection in accordance with the Islamic treatises by approaching and reasoning to solve problems based on management science |
| KK5 | Having the ability to think visionary and to be open, communicative, creative, responsive to change and responsive to advances in science and technology within the scope of management science |

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| 3b. COURSE LEARNING OUTCOME (CPMK) | | |
| CPL Code Supported | **CPMK Code** | **CPMK** |
| PP4, KU3 | CPMK01 | Mastering the techniques and theories of research design |
| S1, S3, PP2, PP3, KK4, KK5 | CPMK02 | Being able to write a research report that meets the academic report standard |
| S7, KU6 | CPMK03 | Possessing sufficient ability to disseminate or publish scientific works |

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| 4.Learning Materials and Main References | |
| Learning Materials | Definition and Research Types |
|  | Scientific Research Process |
|  | Latest issues and empirical model in Operations Management 1 |
|  | Latest issues and empirical model in Operations Management 2 |
|  | Problem Formulation |
|  | Literature Review |
|  | Presentation and Discussion on Problem Formulation |
|  | Data Collection Method |
|  | Research Design |
|  | Statistical Analysis Tools |
|  | POM for Windows 1 |
|  | POM for Windows 2 |
|  | Final Presentation and Discussion 1 |
|  | Final Presentation and Discussion 2 |
| Referensi Utama | * Uma Sekaran, (2016), *Research Methods for Business*, 7th Edition, John Wiley and Sons, Inc., USA. * Donald R, Schindler, Pamela S. Cooper (2014), *Business Research Methods 12th Edition*, McGraw-Hill Higher Education, New York |

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| Date: | Date: | Date: |
| Validated by Dean | Examined by Head of Study Program | Prepared by: |
|  |  |  |
| Dean | Anjar Priyono, PhD. | Head of Curriculum/Syllabus Development Team |

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TRANSLATOR STATEMENT

The information appearing herein has been translated

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