

| Course Code                    | TKIT165232   |                                     |                        |                           |          |          |            |          |  |  |
|--------------------------------|--|-------------------------------------|------------------------|---------------------------|----------|----------|------------|----------|--|--|
| Course Name                    | Enterprise-Based System  |                                     |                        |                           |          |          |            |          |  |  |
| Course Instructors             | Lukito Edi Nugroho ; Markus Nurtiantara Aji  |                                     |                        |                           |          |          |            |          |  |  |
| Course Type                    | Elective   |                                     |                        |                           |          |          |            |          |  |  |
| Course Classification          | Engineering Topics   |                                     |                        |                           |          |          |            |          |  |  |
| Credit / Contact Hour per Week | 3 / 150 minutes per Week   |                                     |                        |                           |          |          |            |          |  |  |
| Course Description             | This course covers an overview of Enterprise Resource Planning (ERP) system software and its role within the organization. An integrated system and its importance in business are discussed in this course.   |                                     |                        |                           |          |          |            |          |  |  |
| Prerequisites Courses          | -  |                                     |                        |                           |          |          |            |          |  |  |
| <b>Covered Student Outcome</b> | <b>Development of Engineering Solution (b)</b><br><b>Modern Tools Utilization (e)</b><br><b>Knowledge of Contemporary Issues (f)</b><br><b>Engineering Awareness and Society (j)</b>   |                                     |                        |                           |          |          |            |          |  |  |
| <b>Learning Mapping</b>        |  |                                     |                        |                           |          |          |            |          |  |  |
| Code                           | Learning Outcome   | Student Outcome                     |                        |                           |          |          |            |          |  |  |
| LO1                            | Students are able to explain the integrated system and its importance in the business.   | Knowledge of Contemporary Issues    |                        |                           |          |          |            |          |  |  |
| LO2                            | Students can optimize business system with ERP.  | Development of Engineering Solution |                        |                           |          |          |            |          |  |  |
| LO3                            | Student are able to understand importance of integrated system in business   | Engineering Awareness and Society   |                        |                           |          |          |            |          |  |  |
| LO4                            | Students can apply software that related with ERP  | Modern Tools Utilization            |                        |                           |          |          |            |          |  |  |
| Topic                          | 1. Business Functions, Processes and Data Requirements<br>2. The Development of Enterprise Resource Planning Systems<br>3. Marketing Information Systems and the Sales Order Process<br>4. Production and Supply Chain Management Information Systems<br>5. Accounting in ERP Systems<br>6. Human Resources Processes with ERP<br>7. Process Modeling, Process Improvement, and ERP Implementation<br>8. ERP and Electronic Commerce |                                     |                        |                           |          |          |            |          |  |  |
| <b>Direct Assessment</b>       | <table border="1"> <thead> <tr> <th>Direct Assessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Mid Exam</td> <td>LO1, LO4</td> </tr> <tr> <td>Final Exam</td> <td>LO2, LO3</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>   |                                     | Direct Assessment Plan | Measured Learning Outcome | Mid Exam | LO1, LO4 | Final Exam | LO2, LO3 |  |  |
| Direct Assessment Plan         | Measured Learning Outcome  |                                     |                        |                           |          |          |            |          |  |  |
| Mid Exam                       | LO1, LO4   |                                     |                        |                           |          |          |            |          |  |  |
| Final Exam                     | LO2, LO3   |                                     |                        |                           |          |          |            |          |  |  |
|                                |  |                                     |                        |                           |          |          |            |          |  |  |
| Indirect Assesment             | Questionnaire and direct communication   |                                     |                        |                           |          |          |            |          |  |  |
| References                     | 1. Concepts in Enterprise Resource Planning, Joseph A. Brady, Ellen F. Monk, Bret J. Wagner, Course Technology, 4e, 2013   |                                     |                        |                           |          |          |            |          |  |  |