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| Module designation | Eminugroho Ratna Sari, M.Sc. |
| Semester(s) in which the module is taught | *6* |
| Person responsible for the module | Eminugroho Ratna Sari, M.Sc. |
| Language | *Bahasa Indonesia* |
| Relation to curriculum | *Compulsory course* |
| Teaching methods | *150 minutes lectures and 180 minutes structured activities per week.* |
| Workload (incl. contact hours, self-study hours) | *Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.* |
| Credit points | *3* |
| Required and recommended prerequisites for joining the module | *MAT6314* Linear Programming |
| Module objectives/intended learning outcomes | After taking this course the students have ability to:<br>CO1. Demonstrate collaborative attitude and independence to do individual or group assigntments<br>CO2. Communicate ideas in solving mathematical problems in writing or verbally<br>CO3. Explain the description of applied operations research, including transshipment problem, assignments, shortest routes, traveling salesmen, minimal spanning tree, maximal flow, PERT / CPM, dynamic programming<br>CO4. formulate a mathematical model regarding operation research problems<br>CO5.Resolve problems using appropriate algorithms and using operating research software |
| Content | *The description of the contents should clearly indicate the weighting of the content and the level.* |
| Examination forms | *CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude.* |

<table>
<tr><td>Study and examination requirements</td><td>The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.<br><br>The final mark will be weight as follow:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO 1</td><td>a. Presentation<br>b. Discussion</td><td>Observation</td><td>5%<br>10%</td></tr>
<tr><td>2</td><td>CO 2,<br>CO 3,<br>CO 4</td><td>a. Individual assignment<br>b. Group assignment<br>c. Quiz<br>d. Midterm<br>e. Final test</td><td>Written</td><td>10%<br>10%<br>20%<br>20%<br>25%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table></td></tr>
<tr><td>Reading list</td><td>Names of textbooks, articles, etc.</td></tr>
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