## MODULE HANDBOOK

| Module Name: | Problem Solving |
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| Module Level: | Sarjana (S-1) / Bachelor |
| Abbreviation, if applicable: | 8420203217 |
| Sub-heading, if applicable: | - |
| Course included in the module, if applicable: | - |
| Semester/term: | 6/ Third year |
| Module Coordinator(s): | Rooselyna Ekawati, Ph.D |
| Lecturer(s): | Rooselyna Ekawati, Ph.D <br> Prof. Dr. Tatag Yuli Eko Siswono, M.Pd. <br> Nina Rinda Prihartiwi, M.Pd. |
| Language: | Indonesia |
| Classification within the curriculum: | Compulsory course/ elective studies |
| Teaching format/class hours per week during the semester | Teaching format: lectures, tutorial assignment, and individual study. $3 \times 170$ minutes $=510$ minutes $=8.5$ hours lectures |
| Workload: | 15 weeks per semester consisting of: <br> $>1.67$ hours lectures ( $2 \times 50$ minutes) per week, <br> $>2$ hours tutorial assignments ( $2 \times 60$ minutes) per week, <br> $>2$ hours individual study ( $2 \times 60$ minutes) per week, <br> Total workload : $14 \times 2 \times 170$ minutes $=4,760$ minutes $=3.17$ ECTS* |
| Credit Point: | 2 |
| Requirements: | - |
| Learning Goals: | Knowledge <br> CLO-1: Able to solve mathematical problems (algebra, geometry, statistics, discrete, probability, mathematical literacy, and numeracy) <br> Skill <br> CLO-2: Able to explain problems and their meaning, problem solving in learning, problem solving and posing, mathematical thinking and problem solving, and problem solving skills <br> CLO-3: Able to arrange problems categorized as problems |


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\begin{array}{|l|l|}\hline & \begin{array}{l}\text { [3] Rudnick, S. K. J. A. (1996). The new sourcebook for } \\
\text { teaching reasoning and problem solving in junior and senior } \\
\text { high school. }\end{array}
$$ <br>

[4] Relevant journal articles\end{array}\right]\)| *Total hours per 1 credit in 1 semester $=\{(1$ credit x 170 minutes x |
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| Note |
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| Each ECTS equals with 25 hours therefore 1 credit in 1 semester <br> equals 1,59 ECTS. |

