MODULE HANDBOOK

<table>
<tr><td>Module Name</td><td>Organic Polymer Chemistry</td></tr>
<tr><td>Module Level</td><td>Bachelor</td></tr>
<tr><td>Abbreviation, if applicable</td><td>3074112079</td></tr>
<tr><td>Sub-heading, if applicable</td><td>-</td></tr>
<tr><td>Course included in the module, if applicable</td><td>-</td></tr>
<tr><td>Semester/term</td><td>8th/ Fourth year</td></tr>
<tr><td>Module coordinator(s)</td><td>Dr. Ismono, M.S.</td></tr>
<tr><td>Lecturer(s)</td><td>Dr. ismono, M.S.
Prof. Dr. Titik Taufikurohmah, M.Si.</td></tr>
<tr><td>Language</td><td>Indonesian Language</td></tr>
<tr><td>Classification within the curriculum</td><td>Elective course</td></tr>
<tr><td>Teaching format/class hours per week during the semester</td><td>2 hours lectures (50 min / hour)</td></tr>
<tr><td>Workload</td><td>2 hours lecture, 2 hours structured activities, 2 hours individual activities, 14 week a semester, and total 79,3 hours a semester~ 3.18 ECTS *</td></tr>
<tr><td>Credit point</td><td>2 SCU (1.59 x 2 = 3.18 ECTS)</td></tr>
<tr><td>Requirement</td><td>Monofunctional Organic Compound and Polyfunctional Organic Compound</td></tr>
<tr><td>Targeted Learning Outcomes</td><td>CLO 1: Able to use the learning resources and ICT to support learning related to polymers and implementation of polymers in everyday life.
CLO 2: Mastering the knowledge of polymers, and implementation of polymers in everyday life.
CLO 3: Able to make decisions in determining the positive and negative aspects of the role of polymers in everyday life
CLO 4: Demonstrate a responsible by implementing the positive impact and how to overcome the negative impact of using polymers in everyday life</td></tr>
<tr><td>Content</td><td>This course discusses the polymer classification, reaction mechanisms and polymer kinetics, ionic addition polymers and free radicals, condensation polymers, determination of polymer molecular mass, polymer solubility, polymer structure and stereochemistry, copolymer reactions, and polymer implementation in everyday life and industry.</td></tr>
<tr><td>Study/exam achievements</td><td>Students are considered to be competent and pass if at least get 55

Final score is calculated as follows: 20% Participation + 30% Assignment + 20% Midle Exam (UTS) + 30% Final Exam (UAS)

Table index of graduation:

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<tr><th>Interval Score</th><th>Index</th></tr>
<tr><td>0 - 39,999</td><td>E</td></tr>
<tr><td>40 - 54,999</td><td>D</td></tr>
<tr><td>55 - 59,999</td><td>C</td></tr>
<tr><td>60 - 64,999</td><td>C+</td></tr>
<tr><td>65 - 69,999</td><td>B-</td></tr>
<tr><td>70 - 74,999</td><td>B</td></tr>
<tr><td>75 - 79,999</td><td>B+</td></tr>
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<tr><td></td><td><table>
<tr><td>80 – 84,999</td><td>A-</td></tr>
<tr><td>85 – 100</td><td>A</td></tr>
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<tr><td>Forms of media</td><td>Computer, LCD, White board</td></tr>
<tr><td>Learning Methods</td><td>Lectures, discussion, assignment</td></tr>
<tr><td>Literature</td><td>1. Akay, M. (2012). Introduction to Polymer Science and Technology, 1st Ed. http://bookboon.com/en/introduction-to-polymer-science-and-technology-ebook
2. Fessenden, R.J. dan Fessenden, J.S. (1998). Kimia Organik. Jilid 1 dan 2. Penerjemah AH Pudjaatmaka. Jakarta: Erlangga.
3. Idol, J.D. & Richard L. Lehman, R.L. (2004), Polymer, CRC Press, Boca Raton, London, New York, Washington DC, http://amipp.rutgers.edu/assets/documents/scholarlypubs/Polymers.pdf
4. Mark, J.E. (2007), Physical Properties of Polymers Handbook, http://link.springer.com/book/10.1007%2F978-0-387-69002-5
5. Osian, (1970), Principles of Polymerization, New York: McGraw-Hill</td></tr>
<tr><td>Note</td><td>Total ECTS = {(total hours workload x 50 min) / 60 min } / 25 hours
Each ECTS is equals with 25 hours</td></tr>
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