MODULE HANDBOOK

<table>
<tr><td>Module Name</td><td>Monofunction Organic Compounds</td></tr>
<tr><td>Module Level</td><td>Bachelor of Chemistry</td></tr>
<tr><td>Abbreviation, if applicable</td><td>3074213031</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>3rd/ Second year</td></tr>
<tr><td>Module coordinator(s)</td><td>Prof. Dr. Suyatno, M.Si.</td></tr>
<tr><td>Lecturer(s)</td><td>Prof. Dr. Suyatno, M.Si.
Prof. Dr. Tukiran, M.Si.</td></tr>
<tr><td>Language</td><td>Indonesian Language</td></tr>
<tr><td>Classification within the curriculum</td><td>Compulsory course</td></tr>
<tr><td>Teaching format/class hours per week during the semester</td><td>3 hours lectures (50 min / hour)</td></tr>
<tr><td>Workload</td><td>3 x 50 minutes lectures, 3 x 60 minutes structured activity,
3 x 60 minutes individual activity, 14 weeks per semester,
119 total hours per semester ~ 4.77 ECTS**</td></tr>
<tr><td>Credit point</td><td>3 CU = = 3 x 1.59 = 4.77 ECTS</td></tr>
<tr><td>Prerequisite course(s)</td><td>-</td></tr>
<tr><td>Targeted Learning Outcomes</td><td>CLO 1: Mastering the theoretical concepts of monofunctional organic compound structure, physical and chemical properties, synthesis reactions, along with their identification.
CLO 2: Able to apply conceptual understanding of monofunctional organic compounds to explain everyday phenomena through science process skills, critical thinking, creativity and problem solving.
CLO 3: Able to make appropriate decisions in the context of solving problems based on the results of analysis of information and data
CLO 4: Demonstrate a responsible attitude towards work in their field of expertise independently</td></tr>
<tr><td>Content</td><td>This course discusses the structural theory of organic compound, alkanes, cycloalkanes, alkenes, alkynes, basic stereochemistry, alkyl halides, aromatic compounds, alcohol-ethers, aldehyde-ketones, carboxylic acids and their derivatives, and amines.</td></tr>
<tr><td>Study/exam achievements</td><td>Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:
<table>
<tr><th>Assessment Components</th><th>Percentage of contribution</th></tr>
<tr><td>Participation</td><td>20%</td></tr>
<tr><td>Assignment</td><td>30%</td></tr>
<tr><td>Mid-semester test</td><td>20%</td></tr>
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	Final semester test: 30%
Media	Computer, LCD, White board
Learning Methods	Lectures, discussion, problem solving, assignment
Literature	1. Carey, F.A. (2000). *Organic Chemistry*. 4rd Ed. New York: McGraw-Hill Companies, Inc. 2. Fessenden, R.J. dan Fessenden, J.S. (1998). *Organic Chemistry*. Part 1 and 2. Translated by AH Pudjaatmaka. Jakarta: Erlangga. 3. Harborne, J.B. (1987). *Phytochemical Methods.* Translated by Kosasih P. Bandung : ITB Press. 4. Hart, H., Craine, L.E. & Hart, D.J. (2003). Organic Chemistry. A Short Course. 11th Ed. Translated by Achmadi, S.S., Jakarta: Erlangga. 5. Robert V, Hoffman (2004). *Organic Chemistry, an Intermediate Text*, 2nd Ed, Canada: John Wiley and Sons, Inc. 6. Smith, J.G. (2011). *Organic Chemistry*. 3th Ed. New York: Mc Graw-Hill Book. 7. Solomon, T.W.G. & Fryhle, C.B. (2011). *Organic Chemistry*. New York: John Wiley & Sons, Inc.
Notes:	*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.
	**1 CU = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/UN38/Hk/Ak/2019