**Module Handbook**

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| Module Name: | Organic Chemistry I |
| Module Level: | Bachelor |
| Abbreviation, if applicable: | KIO201 |
| Sub-heading, if applicable: | |
| Courses included in the module, if applicable: | |
| Semester/term: | 2 / First year |
| Module coordinator(s): | Dr. Hadi Poerwono, MSc |
| Lecturer(s): | Prof. Dr. Tutuk Budiati, MS. |
| | Prof.Dr. H. Achmad Syahrani, Apt., MS. |
| | Drs. Hadi Poerwono, Apt., MSc., PhD. |
| | Drs. Marcellino Rudyanto, Apt., MSi., PhD. |
| | Dr. Juni Ekowati, Apt., MSi. |
| | Dra. Suzana, Apt., MSi. |
| | Kholis Amalia Novianti, S.Farm., Apt., MSc. |
| Language: | Bahasa Indonesia |
| Classification within the curriculum: | Compulsory Course/~~Elective Studies~~ |
| Teaching format/class hours per week during the semester: | 100 minutes lectures, 13 lecture classes/semester |
| Workload: | Total 22 hours a semester |
| Credit Points: | 2 |
| Requirements: | |
| Learning goal/competencies: | Knowledge<br>– To understand the concept of organic compound; and basic concepts and principles in organic chemistry. |
| | Skills<br>– Critical thinking, comprehensive and valid operating scientific-academic, active learning for accessing information to make scientific decision-academic. |
| | Competence<br>– To understand and able to apply basic and applied fields of drug development and drug substance group of natural and synthetic materials. |
| Content: | Introduction of Phisical Chemistry (Practical); measurements and determination of the equilibrium constants associated with phase two component system; reaction kinetics; and the laws of thermodynamics. |
| Study/exam achievements: | Student are considered to be competent and pass if at least get 50% of maximum mark of the exams based learning.<br><br>Final score is calculated as follow :<br>50% Exam I + 50% Exam II<br><br>Final index is defined as follow :<br>A : ≥ 75<br>AB : 70 – 74,9<br>B : 65 – 69,9 |

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| | BC : 60 – 64,9<br>C : 55 – 59,9<br>D : 40 – 54,9<br>E : <40 |
| Forms of Media: | Slides and LCD Projector, whiteboards, loudspeaker. |
| Literature: | 1. Solomons, T. W. G.; Fryhle, C. B. (2007) ***Organic Chemistry***, 9th Ed., John Wiley & Sons, Inc.: New York. |
| | 2. McMurry, J. (2008) ***Organic Chemistry***, 7th Ed., Brooks/Cole Publishing Company: Pasific Grove, California. |
| | 3. Morrison, R. T.; Boyd, R. N. (1992) ***Organic Chemistry***, 6th Ed., Prentice Hall: Englewood Cliffs, New Jersey. |
| | 4. Fessenden, R. J.; Fessenden, J. S. (1989) ***Kimia Organik***, edisi 3 Jilid 1, Alih Bahasa: A. H. Pudjaatmaka, Penerbit Airlangga: Jakarta |
| | 5. Finar, I. L. (1986) ***Organic Chemistry***. Volume I: The Fundamental Principles, 6th Ed., English Language Book Society/Longman: England. |
| Notes: | |