

Module Description

MPK 2404 Organic Compound Reactions II

Module Name	Organic Compound Reactions II
Module level, if applicable	Undergraduate Programme
Code, if applicable	MPK 2404
Subtitle, if applicable	-
Course, if applicable	-
Semester(s) in which the module is taught	4 th Semester
Module coordinator(s):	Rudiyansyah, S.Si., Ph.D
Lecturer	Dr. Andi Hairil Alimuddin, Dr. Endah Sayekti, Dr. M. Agus Wibowo
Language	Bahasa Indonesia
Relation to curriculum	<i>Compulsory</i> Courses for the undergraduate programme in Chemistry
Type of teaching, contact hours	Decide teaching/training components for each course outcome ● Theory /Face-to-face lecture (for understanding): 8 lecture meetings ● Problems: 4 ● Assignments: 2
Workload	(Estimated) Total workload: 2 x 2,83 hours = 5,66 hours per week. Contact hours (lecture): 2 x 0,83 hours = 1,66 hours per week Private study including examination preparation, specified in hours: 2 x 2 hours = 4 hours per week 2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 80 total hours
Credit points	2 (3.34 ECTS)
Requirements according to the	Registered in this course Minimum 75% attendance in this course

examination regulations													
Learning goals/competencies:	Intended Learning Outcomes (ILO) After taking this course, students will be able to: - LO-1 - LO-3												
Module objectives	- Mahasiswa mampu menjelaskan konsep dan mekanisme reaksi adisi yang berlangsung pada senyawa organik - Mahasiswa mampu menjelaskan konsep dan mekanisme reaksi kondensasi pada senyawa organik - Mahasiswa mampu menjelaskan konsep terjadinya reaksi penataan ulang dan mekanisme reaksi yang menyertainya - Mahasiswa mampu menjelaskan konsep dan mekanisme reaksi radikal bebas - Mahasiswa mampu menjelaskan konsep dan mekanisme reaksi oksidasi – reduksi yang terjadi pada senyawa organik												
Content:	- Reaksi adisi - Reaksi Kondensasi - Reaksi Penataan ulang - Reaksi Radikal Bebas - Reaksi oksidasi-reduksi												
Attribute Soft skill: (kemampuan yang)	Discipline, collaboration, responsibility, and argumentation in the natural classroom setting												
Recommended prerequisites	Organic Compound Reactions I												
Study and examination requirements and forms of examination	Students are considered to be competent and pass if they get at least 50% of the maximum final grade. The final grade (NA) is calculated based on the following : <table border="1"> <thead> <tr> <th>Assessment Components</th><th>Percentage Contribution</th></tr> </thead> <tbody> <tr> <td>Participation</td><td>10%</td></tr> <tr> <td>Assignment</td><td>20%</td></tr> <tr> <td>Mid-semester test</td><td>30 %</td></tr> <tr> <td>Final semester test</td><td>40%</td></tr> <tr> <td>Total</td><td>100%</td></tr> </tbody> </table>	Assessment Components	Percentage Contribution	Participation	10%	Assignment	20%	Mid-semester test	30 %	Final semester test	40%	Total	100%
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	The student competency is assessed from activity student in the class, assignments, presentations, quizzes, and tests
Learning Methods	- Case-Based Teaching Method
Media employed	- white board; power point presentation; and e-learning system
Reading list	1. Fessenden, R. J., Fessenden, J. S., 1994, <i>Organic Chemistry</i>, 5th ed., Brooks Cole. 2. Morrison, R. T. Boyd, R. N., 1983, <i>Organic Chemistry</i>, 4th ed., Allyn & Bacon. 3. Solomons, T. W. G. and Fryhle, C. (2007) <i>Organic Chemistry</i>, John Wiley & Sons, New York. 4. Clayden J., Greeves N., Warren S., 2012, <i>Organic Chemistry</i>, Oxford University Press