

Module Handbook

Module Name	Organic Chemistry Lab Work					
Module Level	Higher Diploma					
Code, if applicable	VKD216					
The subtitle, if applicable	-					
Courses, if applicable	-					
Semester(s) in which the module is taught	2 nd semester					
Person responsible for the module	Bayu Wiyantoko, S.Si., M.Sc. Puji Kurniawati, S.Si., M.Sc. Kuntari, S.Si., M.Sc.					
Lecturer	Bayu Wiyantoko, S.Si., M.Sc. Puji Kurniawati, S.Si., M.Sc. Kuntari, S.Si., M.Sc.					
Language	Bahasa Indonesia					
Relation to curriculum	Compulsory					
Type of teaching, contact hours	Laboratory Practice (teaching, preparation, lab work, data analysis and report) and Exams: 5.7 hours x 16 week					
Workload	Total Workload	91 hours; 2 CU				
		Face to face teaching	Laboratory preparation	Laboratory work	Data analysis and report	Exam (Theory and Practice)
	Hours	11	11	50	11	8
Credit Points	2 CU/3.4 ECTS					
Requirements according to the examination regulations	100% of requirements attendance in laboratory activities					
Recommended prerequisites	-					
Module objectives/intended learning outcomes	<p>PLO 7: Able to choose and perform the suitable methods of chemical analysis and operate the chemicals instrument by applying the principles of chemistry occupational safety and health</p> <p>Subject LO:</p> <p>Students are able to apply laboratory procedure and identification of functional group of organic compounds</p> <p>Students are able to apply laboratory procedure and perform organic compound synthesis technique</p> <p>Students are able to apply laboratory procedure and perform organic compound isolation technique</p> <p>Student are able to apply laboratory procedure and determine properties of complex compounds and application in chemicals testing</p> <p>Students are able to build teamwork in carrying out laboratory procedures of complex compounds and applications in chemical testing.</p>					

	<p>Student able to apply laboratory procedures and determine characteristics of solids</p> <p>Students are able to analyze data and report test results in writing and orally</p> <p>Students are able to apply principles and build a culture of chemical safety and health</p> <p>Students are able to build team work in carrying out laboratory procedures</p>																												
Content	<ol style="list-style-type: none"> 1. Identification of functional groups 2. Synthesis of organic compounds 3. Isolation of organic compounds 																												
Study and examination requirements and forms of examination	<p>Table Value Graduation</p> <table> <tr><td>A</td><td>80</td></tr> <tr><td>A-</td><td>77.5</td></tr> <tr><td>A/B</td><td>75</td></tr> <tr><td>B+</td><td>72.5</td></tr> <tr><td>B</td><td>70</td></tr> <tr><td>B-</td><td>67.5</td></tr> <tr><td>B/C</td><td>65</td></tr> <tr><td>C+</td><td>62.5</td></tr> <tr><td>C</td><td>60</td></tr> <tr><td>C-</td><td>55</td></tr> <tr><td>C/D</td><td>50</td></tr> <tr><td>D+</td><td>45</td></tr> <tr><td>D</td><td>40</td></tr> <tr><td>E</td><td>0</td></tr> </table>	A	80	A-	77.5	A/B	75	B+	72.5	B	70	B-	67.5	B/C	65	C+	62.5	C	60	C-	55	C/D	50	D+	45	D	40	E	0
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Media employed	<p>Google classroom, youtube, zoom meeting, google form, google doc, standard method, laboratory handbook</p>																												
Reading list	<ol style="list-style-type: none"> 1. Carey, F.A., 2006, <i>Organic Chemistry</i>, 6th edition, McGraw-Hill Companies, Inc., New York 2. Fessenden, R.J., Fessenden, J.S., 1990, <i>Organic Chemistry</i>, 4th edition, Wadsworth, Inc., California 3. Olah, G.A., Molnar, A., 2003, <i>Hydrocarbon Chemistry</i>, 2nd edition., McGraw-Hill Companies, Inc., New York 																												