



Universitas Negeri Surabaya
Faculty of Mathematics and Natural Sciences
Chemistry Masters Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Scientific Publications	4710202048	Compulsory Study Program Subjects	T=2	P=0	ECTS=4.48	3	July 18, 2024
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator	
	Prof. Dr. Tukiran, M.Si.		Prof. Dr. Tukiran, M.Si.			Prof. Dr. Nuniek Herdyastuti, M.Si.	

Learning model	Project Based Learning
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Program Learning Outcomes (PLO)	PLO study program that is charged to the course
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Program Objectives (PO)	
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PO - 1	Have logic, ethics, honesty, as well as a critical and open attitude in writing scientific publications
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PO - 2	Apply scientific concepts, theories and methods in producing scientific work
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PO - 3	Presenting problem solving through inter-, multi-, and trans-disciplinary approaches in the form of scientific papers
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PO - 4	Manage, develop and determine scientific publications in the field of chemistry and its applications responsibly and transparently
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PLO-PO Matrix	
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	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>P.O</td></tr> <tr><td>PO-1</td></tr> <tr><td>PO-2</td></tr> <tr><td>PO-3</td></tr> <tr><td>PO-4</td></tr> </table>	P.O	PO-1	PO-2	PO-3	PO-4
P.O						
PO-1						
PO-2						
PO-3						
PO-4						

PO Matrix at the end of each learning stage (Sub-PO)	
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	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th rowspan="2">P.O</th> <th colspan="16">Week</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th> </tr> <tr> <td>PO-1</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PO-2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PO-3</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PO-4</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	PO-1																	PO-2																	PO-3																	PO-4																
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Short Course Description	Equip students with the ability to write scientific papers and submit them until they are published in reputable international journals (indexed by Scopus or WoS) or international journals indexed by Copernicus. In scientific publications carried out, the student's name should be the first author, include the name of the main supervisor (can be the corresponding author), include the affiliation of Surabaya State University. Writing can come from the results of thesis research or review articles related to the field of chemistry and its applications.
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References	Main :
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		<ol style="list-style-type: none"> 1. Anwas, EOM dan Sugiarti, Y (2020). Strategi Menulis Artikel Jurnal Bereputasi. Bandung: PT Rosda Karya. 2. Gastel, B & day, RA (2016). How to Write and Publish A Scientific Paper. California: Greenwood. 3. Surat Edaran Direktorat Jenderal Pembelajaran dan Kemahasiswaan, Kemenristekdikti. No. B/323/B.B1/SE/2019 tentang Publikasi Karya Ilmiah Program Sarjana, Program Magister, dan Program Doktor. 4. Surat Edaran Direktur Pascasarjana Unesa Nomor B/59704/UN38.8/TU.00.02/2019 tentang Pedoman Publikasi Karya Ilmiah Mahasiswa sebagai Persyaratan Yudisium. 5. Tim (2022). Pedoman Penulisan Tesis dan Disertasi. Surabaya: Pascasarjana Unesa. 					
		Supporters:					
		1. Artikel-artikel ilmiah dari berbagai jurnal yang relevan dengan penelitian bidang kimia dan terapannya.					
Supporting lecturer		Prof. Dr. Tukiran, M.Si. Prof. Dr. Nuniek Herdyastuti, M.Si. Prof. Dr. Nita Kusumawati, S.Si., M.Sc.					
Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Understand the provisions related to scientific publication of thesis research results and publication strategies in reputable international journals	Accuracy in describing provisions related to the publication of thesis research results and publication strategies in reputable international journals.	Criteria: Based on the assessment rubric that has been created by the teaching lecturer. Form of Assessment : Project Results Assessment / Product Assessment, Test	Presentation, discussion and PjBL 50 x 50 minutes	Presentation, discussion and PjBL 50 x 50 minutes	Material: Publication provisions and publication strategies in reputable international journals. References: 1. Anwas, EOM and Sugiarti, Y (2020). <i>Strategies for Writing Reputable Journal Articles</i> . Bandung: PT Rosda Karya.	10%
2	Able to compose the introductory part of a scientific article resulting from thesis research.	Accuracy in compiling the introductory part of a scientific article resulting from thesis research.	Criteria: Based on the assessment rubric that has been created by the teaching lecturer. Form of Assessment : Project Results Assessment / Product Assessment	Presentations, discussions and PjBL. 50 x 50 minutes	Presentations, discussions and PjBL. 50 x 50 minutes	Material: Writing the introductory structure of scientific research articles. References: 2. Gastel, B & day, RA (2016). <i>How to Write and Publish A Scientific Paper</i> . California: Greenwood.	10%
3	Able to compose the introductory part of a scientific article resulting from thesis research.	Accuracy in compiling the introductory part of a scientific article resulting from thesis research.	Criteria: Based on the assessment rubric that has been created by the teaching lecturer. Form of Assessment : Project Results Assessment / Product Assessment	Presentations, discussions and PjBL. 50 x 50 minutes	Presentations, discussions and PjBL. 50 x 50 minutes	Material: Writing the introductory structure of scientific research articles. References: 2. Gastel, B & day, RA (2016). <i>How to Write and Publish A Scientific Paper</i> . California: Greenwood.	10%

4	Able to structure research methods from scientific articles resulting from thesis research.	Based on the assessment rubric that has been created by the teaching lecturer.	<p>Criteria: Based on the assessment rubric that has been created by the teaching lecturer.</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Test</p>	Presentation, discussion and PjBL 50 x 50 minutes	Presentation, discussion and PjBL 50 x 50 minutes	<p>Material: Writing the structure of research methods from scientific articles resulting from research.</p> <p>References: 1. Anwas, EOM and Sugiarti, Y (2020). <i>Strategies for Writing Reputable Journal Articles</i>. Bandung: PT Rosda Karya.</p>	10%
5	Able to structure research methods from scientific articles resulting from thesis research.	Based on the assessment rubric that has been created by the teaching lecturer.	<p>Criteria: Based on the assessment rubric that has been created by the teaching lecturer.</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Test</p>	Presentation, discussion and PjBL 50 x 50 minutes	Presentation, discussion and PjBL 50 x 50 minutes	<p>Material: Writing the structure of research methods from scientific articles resulting from research.</p> <p>Bibliography: 5. Team (2022). <i>Guidelines for Writing Theses and Dissertations</i>. Surabaya: Unesa Postgraduate.</p>	10%
6	Able to structure research results and discussion of scientific articles resulting from thesis research.	Accuracy in structuring research results and discussion of scientific articles resulting from thesis research.	<p>Form of Assessment : Project Results Assessment / Product Assessment, Test</p>	Presentations, discussions and PjBL. 50 x 50 minutes	Presentations, discussions and PjBL. 50 x 50 minutes	<p>Material: Writing the structure of research results and discussion of scientific research articles.</p> <p>References: 2. Gastel, B & day, RA (2016). <i>How to Write and Publish A Scientific Paper</i>. California: Greenwood.</p>	10%
7	Able to structure research results and discussion of scientific articles resulting from thesis research.	Accuracy in structuring research results and discussion of scientific articles resulting from thesis research.	<p>Criteria: Based on the assessment rubric that has been created by the teaching lecturer.</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Test</p>	Presentations, discussions and PjBL. 50 x 50 minutes	Presentations, discussions and PjBL. 50 x 50 minutes	<p>Material: Writing the structure of research results and discussion of scientific research articles.</p> <p>References: 2. Gastel, B & day, RA (2016). <i>How to Write and Publish A Scientific Paper</i>. California: Greenwood.</p>	10%

8	Able to structure research results and discussion of scientific articles resulting from thesis research.	Accuracy in structuring research results and discussion of scientific articles resulting from thesis research.	<p>Criteria: Based on the assessment rubric that has been created by the teaching lecturer.</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Test</p>	Presentations, discussions and PjBL. 50 x 50 minutes	Presentations, discussions and PjBL. 50 x 50 minutes	<p>Material: Writing the conclusion structure and bibliography of scientific research articles.</p> <p>Bibliography: 5. <i>Team (2022). Guidelines for Writing Theses and Dissertations. Surabaya: Unesa Postgraduate.</i></p>	10%
9	Able to publish scientific articles resulting from thesis research in reputable international journals and revise the results of article reviews from journal reviewers.	Scientific articles have been submitted and published in reputable international journals.	<p>Criteria: Based on the assessment rubric that has been created by the teaching lecturer.</p> <p>Form of Assessment : Project Results Assessment / Product Assessment</p>	Presentations, discussions and PjBL. 50 x 50 minutes	Presentations, discussions and PjBL. 50 x 50 minutes	<p>Material: Strategy for submitting scientific articles in reputable international journals and reviewing articles from journal reviewers.</p> <p>References: 1. <i>Anwas, EOM and Sugiarti, Y (2020). Strategies for Writing Reputable Journal Articles. Bandung: PT Rosda Karya.</i></p>	2%
10	Able to publish scientific articles resulting from thesis research in reputable international journals and revise the results of article reviews from journal reviewers.	Scientific articles have been submitted and published in reputable international journals.	<p>Criteria: Based on the assessment rubric that has been created by the teaching lecturer.</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Test</p>	Presentations, discussions and PjBL. 50 x 50 minutes	Presentations, discussions and PjBL. 50 x 50 minutes	<p>Material: Strategy for submitting scientific articles in reputable international journals and reviewing articles from journal reviewers.</p> <p>References: 2. <i>Gastel, B & day, RA (2016). How to Write and Publish A Scientific Paper. California: Greenwood.</i></p>	2%

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Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Project Results Assessment / Product Assessment	61%
2.	Test	39%
		100%

Notes

1. **Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the

- level of their study program obtained through the learning process.
2. **The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
 5. **Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
 6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
 7. **Forms of assessment:** test and non-test.
 8. **Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
 9. **Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
 10. **Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
 11. **The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
 12. TM=Face to face, PT=Structured assignments, BM=Independent study.