Module Descriptions

A **module** is a self-contained **learning unit** within a higher education program that includes thematically related courses and is assigned a **fixed number of credits**. It follows specific **learning objectives**, includes an **assessment component**, and contributes to achieving the qualifications of a degree program. In some countries, “modules” are also named “courses”.

Please provide a module description for each module. In addition to the compulsory and elective modules, this also includes credited internships and the final thesis.

Please summarize all module descriptions in one document (Module Handbook) and create a table of contents so that the modules can be found easily.

Module designation	*Current Research in Chemistry Learning*
Semester(s) in which the module is taught	5nd
Person responsible for the module	*1. Prof. Dr. Antuni Wiyarsi S.Pd.Si., M.Sc.* *2. Anggiyani Ratnaningtiyas Eka Nugraheni S.Pd.Si, M.Pd., Ph.D.*
Language	*Bahasa Indonesia*
Relation to curriculum	*Compulsory / ~~elective / specialisation~~*
Teaching methods	*Lecture, discussion, project*
Workload (incl. contact hours, self-study hours)	*Total workload of the activity is 136 hours per semester which consist of:* *100 minutes/week for class learning* *170 minutes/week for independent learning*
Credit points	*2 SKS (3,2 ECTS)*
Required and recommended prerequisites for joining the module	*Creativity, innovation, and entrepreneurship*

<table>
<tr><td>Module objectives/intended learning outcomes</td><td>On successful completion of the course students should be able to:
1. Students are able to demonstrate a responsible, independent attitude and are brave in expressing their own opinions and respecting the work of others.
2. Students are able to analyze the latest chemistry learning research results from international and national journal articles reviewed from pedagogical and chemistry topics to find research themes.
3. Students are able to develop logical, critical, systematic and innovative thinking in conducting studies on the results of chemical education research by producing articles on the results of the studies.
4. Students are able to work independently and collaboratively in order to analyze the results of chemical education research and the direction of its trends.
5. Students are able to communicate the results of studies on chemistry learning research.</td></tr>
<tr><td>Content</td><td>The Nature of Chemistry Learning, International Journal Search, International Journal Review Techniques, Paraphrasing Technique, Writing International Journal Reviews, Writing articles in APA style, MLA style,</td></tr>
<tr><td>Examination forms</td><td>Project report and presentation, written tests</td></tr>
<tr><td>Study and examination requirements</td><td>Minimum attendance at lectures is 75%
Final score (NA) is calculated as follows:
<table>
<tr><th>Learning Outcome</th><th>Weight (%)</th><th>Technique of Assesment</th></tr>
<tr><td>1-2</td><td>0</td><td>Participation</td></tr>
<tr><td>1-4</td><td>5</td><td>Task</td></tr>
<tr><td>1-4</td><td>15</td><td>Mid-term Written Test</td></tr>
<tr><td>1-2</td><td>20</td><td>Final Term</td></tr>
<tr><td>4</td><td>60</td><td>Case Study</td></tr>
<tr><td>1,3,4,5</td><td>0</td><td>Team Based Project</td></tr>
</table></td></tr>
<tr><td>Reading list</td><td>1. Yeo, J., Teo, T.W., & Tang, K.S. (2018). Science Education Research and Practice in Asia-Pacific and Beyond. Springer Nature
2. Unsworth, L. (2020). Learning from animations in science education: Innovating in semiotic and educational research. Springer International Publishing
3. American Psychological Association (APA). (2020). APA Publication manual. 7th Edition
4. Fink, A. (2014). Conducting research literature reviews: From the internet to paper. SAGE Publications
5. Harris, D. (2020). Literature review and research design: A guide to effective research practice. Routledge
6. Yeo, J., Teo, T.W., & Tang, K.S. (2018). Science education research and practice in Asia-Pacific and beyond. Springer Nature</td></tr>
</table>

Prepared by	Verified by:	Authorized by:

		Program Study Coordinator