MINISTRY OF EDUCATION AND CULTURE
UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF NATURAL SCIENCES
Ketintang Campus, Jl. Ketintang C12 Building, Surabaya 60231
Phone (031)18296427
Website http://pendidikan-sains.fmipa.unesa.ac.id

Module Name:	*Kimia Rumah Tangga* (Household Chemistry)
Module Level:	Bachelor degree/Undergraduate Programme
Course Code:	8420102073
Abbreviation, if applicable:	KRT
Courses included in the module, if applicable:	Not applicable
Semester/term	Elective
Module coordinator(s):	Siti Nurul Hidayati, S.Pd., M.Pd.
Lecturer(s):	**Siti Nurul Hidayati, S.Pd., M.Pd.** **Wahyu Sabtiawan, S.Si., M.Pd**
Language:	*Bahasa Indonesia* (Indonesian Language)
Classification within the curriculum:	Elective
Teaching format/class hours per week during the semester:	2 contact hours of lectures (Indonesia credit semester or *sks**)
Workload:	2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 79,3 total hours per semester ~ 3,18 ECTS**
Credit point:	2 *sks* (3,18 ECTS)
Requirements:	Solution, basic biochemistry, Biochanic
Learning goals/competencies:	**Course Learning Outcomes (CLOs):** 1. Able to take advantage of science and technology in studying matters related to household chemicals, additives in food, addictive substances (psychotropic) and able to adapt to situations faced in solving problems. 2. Mastering the theoretical concepts of household chemicals, additives in food, addictive substances (psychotropics) in depth and formulating them in procedural problem solving. 3. Able to make decisions based on analysis of information and data and provide guidance in choosing alternative solutions. 4. Responsible for informing the results of analysis of information and data both orally and in writing.
Content:	Scientific Method, Matter and Properties of Matter, Periodic System of Elements, Chemical Bonds, Stoichiometry, Solutions, Colloid Systems,
Attribute Soft skill:	Discipline, collaboration, responsibility, and argumentation in the natural classroom setting
Study/exam achievements:	Students are considered to be competent and pass if at least get 40% of the maximum final grade. The final grade (NA) is calculated based on the following weight:

<table>
<tr><td></td><td>
<table>
<tr><th>Assessment Components</th><th>Percentage Contribution</th></tr>
<tr><td>Participation</td><td>20%</td></tr>
<tr><td>Assignment</td><td>30%</td></tr>
<tr><td>Mid-semester test</td><td>20%</td></tr>
<tr><td>Final semester test</td><td>30%</td></tr>
<tr><td>Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Learning Methods</td><td>Student-centered approach, deductive learning, lecturing, discussion, and presentation (structured activities), and flip learning</td></tr>
<tr><td>Form of Media:</td><td>LCD, PowerPoint, hand out, simulation, and whiteboard and e-learning unesa (https://vinesa.unesa.ac.id/course/view.php?id=423)</td></tr>
<tr><td>Literature (primary references):</td><td>
1. Helmprecht. H.L. and Friedman. L.T. 1997. basic Chemistry for The Life Sciences. New York : Mc Graw Book Company
2. Pusat Perbukuan. 2003. Ensiklopedia Sains dan Kehidupan. Jakarta : Depdiknas
3. Lucy T Pride. 2010. Environmental chemistry an intoduction. Cumming publishing company.
</td></tr>
<tr><td rowspan="2">Notes:</td><td>*1 sks in learning process = three contact hours that consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</td></tr>
<tr><td>**1 sks = 1,59 ECTS</td></tr>
</table>