



**UNIVERSITAS NEGERI SURABAYA**  
**FAKULTAS MATEMATIKA DAN LIMU PENGETAHUAN ALAM**  
**PRODI PENDIDIKAN KIMIA**

Kode  
Dokumen

**RENCANA PEMBELAJARAN SEMESTER**

| MATA KULIAH (MK)   |  | KODE  | Rumpun MK  | BOBOT (sks)                   |      | SEMESTER            | Tgl Penyusunan    |
|--|--|---|------------|-------------------------------|------|---------------------|-------------------|
| Konservasi Sumber Daya Alam dan Lingkungan (KSDAL)<br><i>Conservation of Natural Resources and Environment</i> |  | 8420402173  | Non rumpun | T= 2                          | P= 0 | 2                   | 30 September 2019 |
| OTORISASI<br>PENDIDIKAN KIMIA  |  | Pengembang RPS  |            | Koordinator RMK               |      | Ketua PRODI         |                   |
|  |  | Mitarlis  |            | Dr. Nuniek Herdyastuti, M.Si. |      | Dr. Sukarmin, M.Pd. |                   |
| Capaian Pembelajaran (CP)  | CPL-PRODI yang dibebankan pada MK            |   |            |                               |      |                     |                   |
|  | PLO 1  | Mastering the principles of conservation principles, natural resources, and the environment ( <b>Knowledge</b> ).   |            |                               |      |                     |                   |
|  | PLO 2  | Mastering the concept of conservation of natural resources and environment (KSDAL) application and relevant technology in the management of natural resources and environment. (Knowledge)        |            |                               |      |                     |                   |
|  | PLO 6  | Capable to solve problems in the community in an effort to apply knowledge of conservation of natural resources and environment ( <b>Generic skills</b> )   |            |                               |      |                     |                   |
|  | PLO 8  | Capable to realize independent character, and environment care through conservation of natural resources and environment (KSDAL) lectures to develop ecopreneurship ( <b>Specific Attribute</b> ) |            |                               |      |                     |                   |
|  | Capaian Pembelajaran Mata Kuliah (CPMK)      |   |            |                               |      |                     |                   |
| CLO 1  | <b>General Learning Outcome Achievement:</b> |   |            |                               |      |                     |                   |

|                             |   |   |
|-----------------------------|---|---|
|                             |   | Students have ability to apply logical, critical, systematic and innovative thinking in the context of developing or implementing science and technology that pays attention to and applies humanities values related to conservation of natural resources and environment (KSDAL) .  |
|                             | CLO 2   | <b>Specific Learning Outcome Achievement:</b><br>Students have ability to produce correct conclusions based on the results of identification that have been made and be able to apply skills in educating, researching, and managing in the administration of chemistry education related to conservation of natural resources and environment (KSDAL). |
|                             | CLO 3   | <b>Knowledge Domain Learning Outcome Achievement:</b><br>Students be able to master the theoretical concepts (knowledge) about the conservation of natural resources and environment, environment ethic, natural resources, local wisdom, management of natural resources and environmental problems, as well as conservation awareness.                |
|                             | CLO 4   | <b>Attitude Domain Learning Outcome Achievement:</b><br>Students have a responsible attitude by applying the understanding of conservation of natural resources and environment in carrying out lectures and daily activities and assignments on the field in the future.   |
|                             | <b>Kemampuan akhir tiap tahapan belajar (Sub-CPMK)</b>  |   |
|                             | Sub-CLO 1   | Explain the understanding of the scope of conservation which includes: background, definition, and purpose.   |
|                             | Sub-CLO 2   | Explain the the benefits and efforts to Conserve natural resources and environment (SDAL)   |
|                             | Sub-CLO 3   | Describe environmental ethics which includes: Definition, Paradigm, and Environmental Ethical Principles  |
|                             | Sub-CLO 4   | Describe the types and benefits of natural resources  |
|                             | Sub-CLO 5   | Explain local wisdom which includes: Understanding, approaches, challenges and local wisdom in community life in the future   |
|                             | Sub-CLO 6   | Explain<br>Management and problems of natural resources and the environment which include: issues, problems and management of natural resources and the environment;  |
|                             | Sub-CLO 7   | Describe the level of biodiversity (community / habitat, species, genetic) and its conservation efforts   |
|                             | Sub-CLO 8   | Explain the eco campus programs and the efforts to realize the programs   |
| <b>Deskripsi Singkat MK</b> | This course discuss about: 1) Scope of conservation which includes: definition, objectives, benefits and efforts to conserve natural resources and the environment (SDAL); 2) Environmental ethics which includes: definition, Paradigm, and Environmental Ethical Principles; 3) Natural resources which include: definition, types and benefits |   |

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|--|--|
|  | of Natural Resources; 4) Local wisdom which includes: definition, approach, challenges and local wisdom in people's lives in the future; 5) Management and problems of natural resources and the environment which include: issues, problems and management of natural resources and the environment; 6) Awareness of conservation which includes awareness of the importance of conserving natural resources and the environment, an eco campus and a conservation campus. Lecture activities are carried out in a student center with discussions, observations, project assignments, and presentations by developing ecopreneurship characters  |
| <b>Bahan Kajian: Materi Pembelajaran</b> | <ol style="list-style-type: none"> <li>1. Scope of conservation which includes: Definition, objectives, benefits and efforts to conserve natural resources and the environment (SDAL);</li> <li>2. Environmental ethics, which includes: Definition, Paradigm, and Environmental Ethical Principles;</li> <li>3. Natural resources which include: Definition, types and benefits of Natural Resources;</li> <li>4. Local wisdom which includes: Definition, approach, challenges and local wisdom in people's lives in the future;</li> <li>5. Management and problems of natural resources and the environment which include: issues, problems and management of natural resources and the environment;</li> <li>6. Level of biodiversity (community / habitat, species, genetic) and its conservation efforts</li> <li>7. Conscious conservation which includes awareness of the importance of conservation of natural resources and the environment,</li> <li>8. Eco campus movement and conservation campus.</li> </ol>  |
| <b>Pustaka</b>                           | <p><b>Utama :</b></p> <ol style="list-style-type: none"> <li>1. Hamzah, S. 2010. <i>Pendidikan Lingkungan. Sekelumit Wawasan Pengantar</i>. Bandung: PT RefikaAditama.</li> <li>2. Indrawan, M; Primack, R.B; Supriatna, J. 2007. <i>Biologi Konservasi</i>. Jakarta: Yayasan Obor Indonesia.</li> <li>3. Iskandar, Z.I. 2012. <i>Psikologi Lingkungan. Teori dan Konsep</i>. Bandung: PT Refika Aditama.</li> <li>4. Keraf, A.S. 2010. <i>Etika Lingkungan Hidup</i>. Jakarta: Penerbit BukuKompas.</li> <li>5. Marfai, M.A. 2013. <i>Pengantar Etika Lingkungan dan Karifan Lokal</i>. Yogyakarta: Gadjah Mada University Press.</li> </ol> <p><b>Pendukung :</b></p> <ol style="list-style-type: none"> <li>1. Cluras, D. D. and Reganold, J.P. 2010. <i>Natural Resources Conservation Future</i>. Washington: Washington State University.</li> <li>2. Mitchell, B; Setiawan, B; Rahmi, D.H. <i>Pengelolaan Sumber daya dan Lingkungan</i>. Yogyakarta: Gadjah Mada University Press.</li> <li>3. Suparmoko, M. 2013. <i>Ekonomi Sumber Daya Alam dan Lingkungan. Suatu Pendekatan Teoritis</i>. Yogyakarta: BPF</li> </ol> |
| <b>Dosen Pengampu</b>                    | <p>Prof. Dr. Titik Taufikurohmah, M.Si.<br/> Dr. Mitarlis, S.Pd., M.Si.<br/> Dr. Yuliani, M.Si.<br/> Reni Ambarwati, S.Si., M.Sc.</p>  |

|                   |  | Guntur Trimulyono, S.Si., M.Sc.  |   |   |                    |   |                     |
|-------------------|--|--|---|---|--------------------|---|---------------------|
| Matakuliah syarat |  | -  |   |   |                    |   |                     |
| Mg Ke-            | Kemampuan akhir tiap tahapan belajar (Sub-CLO)                                     | Penilaian  |   | Bentuk Pembelajaran, Metode Pembelajaran, Penugasan Mahasiswa, [Estimasi Waktu]             |                    | Materi Pembelajaran [Pustaka]   | Bobot Penilaian (%) |
|                   |  | Indikator  | Kriteria & Bentuk   | Luring (offline)  | Daring (online)    |   |                     |
| (1)               | (2)  | (3)  | (4)   | (5)   | (6)                | (7)   | (8)                 |
| 1                 | <b>Mengusulkan gagasan kreatif dalam memecahkan masalah lingkungan secara umum</b> | <ol style="list-style-type: none"> <li>1. Menganalisis latar belakang konservasi sumber daya alam dan lingkungan</li> <li>2. Mendeskripsikan pengertian, tujuan, dan manfaat konservasi</li> <li>3. Mendeskripsikan upaya konservasi sumber daya alam dan lingkungan.</li> </ol> | Kriteria:<br>Kualitatif<br>Kuantitatif<br>Bentuk:<br>Tes<br>Non Tes | Ceramah<br>Diskusi<br>Penugasan (tugas observasi dan analisis data observasi)<br>Presentasi | Ceramah<br>Diskusi | <ol style="list-style-type: none"> <li>1. Scope of conservation which includes:               <ol style="list-style-type: none"> <li>1.1. Definition, objectives, benefits and</li> <li>1.2. Efforts to conserve natural resources and the environment (SDAL);</li> </ol> </li> </ol> |                     |
| 2                 | <b>Mengusulkan gagasan kreatif dalam memecahkan masalah lingkungan secara umum</b> | <ul style="list-style-type: none"> <li>• Mengusul-kan gagasan tertulis terkait upaya-upaya konservasi sumber daya alam</li> </ul>  | Kriteria:<br>Kualitatif<br>Kuantitatif<br>Bentuk:<br>Tes<br>Non Tes | Penugasan   |                    | <ol style="list-style-type: none"> <li>1. Scope of conservation which includes: Definition, objectives, benefits and Efforts to conserve natural resources and</li> </ol>   |                     |

|   |   |  |   |   |                                  |  |  |
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|   |   |  |   |   |                                  | the environment (SDAL)   |  |
| 3 | <b>Menerapkan prinsip-prinsip etika lingkungan dalam kehidupan.</b>                         | <ul style="list-style-type: none"> <li>• Menjelaskan etika lingkungan,</li> <li>• mendeskripsikan prinsip-prinsip etika lingkungan.</li> <li>• menuliskan contoh etika lingkungan</li> </ul> | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Penugasan (tugas baca)<br>Tugas observasi laboratorium)<br>Presentasi hasil observasi | Tugas Presentasi hasil observasi | 2. Environmental ethics, which includes: Definition, Paradigm, and Environmental Ethical Principles; |  |
| 4 | <b>Menerapkan prinsip-prinsip etika lingkungan dalam kehidupan</b>                          | <ul style="list-style-type: none"> <li>• Mengusulkan gagasan tertulis terkait pentingnya etika lingkungan dalam konservasi sumber daya alam dan penerapannya</li> </ul>                      | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Penugasan (tugas baca)<br>Tugas observasi laboratorium)<br>Presentasi hasil observasi | Tugas Presentasi hasil observasi | 3. Environmental ethics, which includes: Definition, Paradigm, and Environmental Ethical Principles; |  |
| 5 | <b>Mengembangkan gagasan yang efektif untuk mengatasi permasalahan SDA dan lingkungan.</b>  | <ul style="list-style-type: none"> <li>• Menjelaskan pengertian sumber daya alam</li> <li>• mengklasifikasi jenis-jenis SDA</li> </ul>   | Kriteria:<br>Kualitatif<br>Kuantitatif<br>Bentuk:<br>Tes<br>Non Tes     | Penugasan (tugas Praktek koservasi di sekitar kampus)                                 |                                  | 4. Natural resources which include: Definition, types and benefits of Natural Resources              |  |
| 6 | <b>Mengembang-kan gagasan yang efektif untuk mengatasi permasalahan SDA dan lingkungan.</b> | 5 Menjelaskan jenis-jenis sumber daya alam yang ada di lingkungan sekitar mahasiswa<br>6 mengklasifikasi jenis-jenis SDA yang ada di lingkungan sekitar mahasiswa.                           | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Ceramah<br>Diskusi<br>Penugasan (tugas manajemen peralatan dan bahan)                 |                                  | 4. Natural resources which include: Definition, types and benefits of Natural Resources              |  |

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|    |  | 7 Merancang usulan pemecahan masalah SDAI dan lingkungan sesuai jenisnya  |   |   |                                  |  |  |
| 7  | Mengembangkan gagasan yang sistematis untuk melestarikan kearifan lokal masyarakat                             | 8 Menjelaskan definisi, pendekatan dan tantangan kearifan lokal<br>9 Menganalisis budaya dan kearifan lokal Indonesia yang menunjang konservasi | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Penugasan (tugas merumuskan gagasan dan dipresentasikan dalam bentuk ppt) | Tugas Presentasi hasil observasi | 5. Local wisdom which includes: Definition, approach, challenges and local wisdom in people's lives in the future;   |  |
| 8  | <b>Evaluasi Tengah Semester / Ujian Tengan Semester</b>  |   |   |   |                                  |  |  |
| 9  | Mengembangkan gagasan yang sistematis untuk melestarikan kearifan lokal masyarakat                             | • Mengusulkan usaha untuk meningkatkan peran kearifan lokal yang menunjang konservasi   | Kriteria:<br>Kualitatif<br>Kuantitatif<br>Bentuk:<br>Tes<br>Non Tes     | Penugasan (tugas merumuskan gagasan)<br>Tugas Presentasi                  |                                  | 5. Local wisdom which includes: Definition, approach, challenges and local wisdom in people's lives in the future;.  |  |
| 10 | Mengembangkan gagasan yang efektif pemecahan masalah SDAL sesuai dengan prinsip pengelolaan SDA dan lingkungan | • mendeskripsikan contoh masalah SDAL yang terjadi di masyarakat.<br>• mendeskripsikan contoh pengelolaan SDAL yang terjadi di masyarakat.      | Kriteria:<br>Kualitatif<br>Kuantitatif<br>Bentuk:<br>Tes<br>Non Tes     | Ceramah<br>Diskusi<br>Penugasan (tugas baca)<br>Tugas Presentasi          | Tugas Presentasi hasil observasi | 6. Management and problems of natural resources and the environment which include: issues, problems and management of natural resources and the environment; |  |

|    |  |   |   |  |                              |  |  |
|----|--|---|---|--|------------------------------|--|--|
| 11 | Mengembangkan gagasan yang efektif pemecahan masalah SDAL sesuai dengan prinsip pengelolaan SDA dan lingkungan | Mengembangkan gagasan pengelolaan SDA dan lingkungan yang efektif sesuai dengan prinsip pengelolaan SDA | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Ceramah<br>Diskusi<br>Penugasan<br>(tugas baca dan mereview MSDS)  | Tugas diskusi                | 6. Management and problems of natural resources and the environment which include: issues, problems and management of natural resources and the environment; |  |
| 12 | Memahami prinsip-prinsip konservasi secara global dan lokal.   | Menjelaskan prinsip-prinsip konservasi SDAL secara global   | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Ceramah<br>Diskusi<br>Penugasan<br>(tugas pengamatan video simulasi pemadam kebakaran)<br>Tugas Presentasi |                              | Prinsip-prinsip konservasi SDAL secara global  |  |
| 13 | Memahami prinsip-prinsip konservasi secara global dan lokal.   | Menguasai prinsip-prinsip konservasi SDAL secara lokal  | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Ceramah<br>Diskusi<br>Penugasan<br>(tugas praktikum pembuatan larutan)<br>Tugas Presentasi                 | Tugas Diskusi dan Presentasi | Prinsip-prinsip konservasi SDAL secara lokal   |  |

|    |   |  |   |   |                                 |  |  |  |
|----|---|--|---|---|---------------------------------|--|--|--|
| 14 | Berperan aktif dalam gerakan <i>eco campus</i> Unesa  | Menganalisis pelaksanaan <i>eco campus</i> dan memberikan masukan untuk peningkatan kegiatan <i>eco campus</i> . | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Ceramah<br>Diskusi<br>Penugasan (tugas praktikum pembuatan larutan)<br>Tugas Presentasi                                     |                                 | Eco campus movement and conservation campus.   |  |  |
| 15 | Berperan aktif dalam usaha mengatasi lingkungan di daerah asal melalui kegiatan konservasi, | 11 masalah lingkungan di daerah asal dan memberikan masukan usaha konservasi yang perlu dilakukan.               | Kriteria:<br>Kualitatif<br>Kuantitatif<br><br>Bentuk:<br>Tes<br>Non Tes | Ceramah<br>Diskusi<br>Penugasan (tugas menganalisis lingkungan sekitar, mengidentifikasi masalah dan alternative solusinya) | Tugas<br>Diskusi dan Presentasi | Level of biodiversity (community / habitat, species, genetic) and its conservation efforts<br>Prinsip-prinsip konservasi SDAL secara lokal |  |  |
| 16 | <b>Evaluasi Akhir Semester / Ujian Akhir Semester</b>                                       |  |   |   |                                 |  |  |  |