**Module Handbook**

<table>
<tr><td>Module Name</td><td colspan="6">Wood, Paper, and Textile Products Analysis</td></tr>
<tr><td>Module Level</td><td colspan="6">Higher Diploma</td></tr>
<tr><td>Code, if applicable</td><td colspan="6">VKT743</td></tr>
<tr><td>The subtitle, if applicable</td><td colspan="6">-</td></tr>
<tr><td>Courses, if applicable</td><td colspan="6">-</td></tr>
<tr><td>Semester(s) in which the module is taught</td><td colspan="6">Odd semester</td></tr>
<tr><td>A person responsible for the module</td><td colspan="6">Bayu Wiyantoko, M.Sc.</td></tr>
<tr><td>Lecturer</td><td colspan="6">Bayu Wiyantoko, M.Sc.</td></tr>
<tr><td>Language</td><td colspan="6">Bahasa Indonesia</td></tr>
<tr><td>Relation to curriculum</td><td colspan="6">Elective</td></tr>
<tr><td>Type of teaching, contact hours</td><td colspan="6">Lecture (face to face teaching, independent study, structured activities/ structured assignments, and exam): 5.6 hours x 16 weeks per semester</td></tr>
<tr><td rowspan="3">Workload</td><td>Total Workload</td><td colspan="5">91 hours; 2 CU</td></tr>
<tr><td></td><td>Face to face teaching</td><td>Independent study</td><td>Structured assignments</td><td>Presentation</td><td>Exam</td></tr>
<tr><td>Hours</td><td>24</td><td>22</td><td>22</td><td>12</td><td>11</td></tr>
<tr><td>Credit Points</td><td colspan="6">2 CU/3.4 ECTS</td></tr>
<tr><td>Requirements according to the examination regulations</td><td colspan="6">75% minimum requirements of attendance</td></tr>
<tr><td>Recommended prerequisites</td><td colspan="6">-</td></tr>
<tr><td>Module objectives/intended learning outcomes</td><td colspan="6">PLO 3: Mastering the basic concepts of chemistry, chemical testing, operation, and maintenance of chemical instruments that can be applied in the world of work.<br>Subject LO:<br>Able to describe the wood structure and compare chemical components of wood<br>Able to explain the process of wood pulping and textile manufacturing<br>Able to analyze physical and chemical parameters of wood, paper, and textiles</td></tr>
<tr><td>Content</td><td colspan="6">1. Wooden structure<br>2. Chemical components of wood<br>3. Pulping process<br>4. Textile manufacturing process<br>5. Physical and chemical analysis of wood, paper and textiles</td></tr>
<tr><td>Study and examination</td><td colspan="6">Mid-term (30%) and final term exams (30%), presentation (20%), assignments (20%)</td></tr>
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| **requirements and forms of examination** | |
| **Media employed** | Google classroom, youtube, zoom meeting, google form, google doc |
| **Reading list** | 1. Rowel, R.M., 2005, Handbook of wood chemistry and wood composites, Taylor & Francis Group<br>2. Badan Standarisasi Nasional, 1989, SNI 01-1303-1989: Cara uji kadar holoselulosa dalam kayu, Jakarta, Badan Standarisasi Nasional<br>3. Badan Standarisasi Nasional, 2006, SNI 12-7197-2006: Cara uji kadar ekstraktif kayu dan pulp dalam diklorometana, Jakarta, Badan Standarisasi Nasional<br>4. Badan Standarisasi Nasional, 1989, SNI 14-1031-1989: Cara uji kadar abu, silika dan silikat dalam kayu dan pulp kayu, Jakarta, Badan Standarisasi Nasional<br>5. Badan Standarisasi Nasional, 1989, SNI 14-1032-1989: Cara uji kadar sari (ekstrak alkohol-benzena) dalam kayu dan pulp, Jakarta, Badan Standarisasi Nasional<br>6. Badan Standarisasi Nasional, 1989, SNI 14-1304-1989: Cara uji kadar pentosan dalam pulp kayu, Jakarta, Badan Standarisasi Nasional<br>7. Badan Standarisasi Nasional, 2009, SNI 0444-2009: Pulp- Cara uji kadar selulosa alfa, beta, dan gamma Jakarta, Badan Standarisasi Nasional |