KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS NEGERI PADANG
FAKULTAS TEKNIK
**JURUSAN TEKNIK SIPIL**
Alamat: Jl.Prof Dr. Hamka Kampus UNP Air Tawar Padang 25131
(0751)7059996;http://sipil.ft.unp.ac.id; sipil@ft.unp.ac.id



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| Module name: | Engineering Drawing |
| Module level, if applicable: | Undergraduate |
| Code: | SIP1.61.1107 |
| Sub-heading, if applicable: | - |
| Classes, if applicable: | - |
| Semester: | 1st |
| Module coordinator: | Risma Apdeni, S.T., M.T. |
| Lecture(s): | Drs. Revian Body, MSA; Risma Apdeni, S.T., M.T.,Laras Oktavia Andreas, S. Pd., M. Pd. T.; etc |
| Language: | Bahasa Indonesia |
| Classification within the curriculum: | Compulsory course |
| Teaching format/ class hours per week during the semester: | 150 minutes lectures and 180 minutes structured activities per week, and 180 minutes self activities. |
| Workload: | Totally, workload is 136 hours (8160 minutes) per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks. |
| Credit points: | 3 |
| Prerequisites course(s): | - |
| Course outcomes: | After taking this course the students have ability to:<br>CO1. Properly and correctly draw an object in accordance with the principles of engineering drawing.<br>CO2. Apply the principles of good lines, letters, number, dimension, annotation, and title block in drawing.<br>CO3. Apply the principles of scale in drawing.<br>CO4. Draw an object in American and European projection method.<br>CO5. Draw an object in axonometric and oblique projection method.<br>CO6. Draw an object in one-point and two-point perspective projection method.<br>CO7. Properly and correctly draw a building plan |
| Content: | This course provides basic knowledge and skills of building construction drawing and functioned as supporting knowledge and skills for further construction drawing courses. The course material includes function and maintenance of drawing equipment, drawing etiquette, geometrical drawings, technical drawing elements, projection drawings, sketches, perspectives, and the application of technical drawing symbols. |
| Study / exam achievements: | Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the |

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<tr><td></td><td>requirements to pass the course. Students will pass from this course if at least have a good attitude.<br>The final mark will be weight as follow:<br><br>
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO1-CO12</td><td>a. Mid Exam<br>b. Quiz<br><br>c. Final Exam<br>d. Assignment<br>e. Attendance</td><td>Written test<br>Verbal/written test<br><br>Written test<br>Result<br>Presentation<br>Written Data</td><td>20%<br>5%<br><br>25%<br>40%<br><br>10%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer, Drawing Equipment</td></tr>
<tr><td>Literature:</td><td>Main Literature:<br>1. Israr, Chairul. 1984. Konstruksi Bangunan dan Menggambar Seri Sambungan dan Hubungan Kayu. Padang: MRC.<br>2. Jabar, Maryati. 1983. Dasar-Dasar Menggambar Teknik. Padang: MRC.<br>3. Schaarwachter. 1984. Perspektif untuk Para Arsitek. Jakarta: Penerbit Erlangga.<br>4. Sugiharjo, R. 1976. Gambar – Gambar Dasar Ilmu Bangunan 1, 2, 3 dan Suplemen Seri Bina Bangunan. Jakarta: R. Sugihardjo, B.A.E<br>5. Keputusan Menteri PU – RI No 441/KPTS/1998 tentang Persyaratan Teknis Bangunan Gedung<br>Supporting Literature:<br>1. Subarkah, Imam. 1990. Konstruksi Bangunan Gedung, Bandung: Penerbit Idea Dharma.<br>2. Frick, Heinz, 1980. Ilmu Konstruksi Bangunan 1, 2. Semarang: Penerbit Kanisius<br>3. Kwantes, J. 1983. Ringkasan Ilmu Bangunan Bagian A dan B. Penerjemah: Hendarsin H. Jakarta: Penerbit Erlangga</td></tr>
</table>

PLO and CO mapping

| | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 | PLO6 |
|---|---|---|---|---|---|---|
| CO1 | √ | | √ | | | √ |

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| | | | | | | |
|---|---|---|---|---|---|---|
| CO2 | √ | | √ | | | √ |
| CO3 | √ | √ | √ | | | √ |
| CO4 | √ | √ | √ | | | √ |
| CO5 | √ | √ | √ | | | √ |
| CO6 | √ | √ | √ | | | √ |
| CO7 | √ | | √ | | | √ |