



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](mailto:sipil@ft.unp.ac.id)

**Bachelor of Education in Building Engineering**

**MODULE HANDBOOK**

Module name:	Planning Drawing
Module level, if applicable:	Undergraduate
Code:	SIP1.61.4303
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	4th
Module coordinator:	Drs. Revian Body, MSA.
Lecture(s):	Drs. Revian Body, MSA; <b>Risma Apdeni, S.T., M.T.</b> , Muvi Yandra, S.Pd., M. Pd.
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):	Building Construction Drawing
Course outcomes:	After taking this course the students have ability to: CO1. Understand the process of architectural design of various building types CO2. Design buildings with medium complexity level and produce the architectural drawings of the design, consist of 2D drawings, 3D drawings, and animation. CO3. Use the drawing software (AutoCAD and Sketch-Up) in realizing the building design.
Content:	This course provides knowledge in the field of architecture on how to design a building with medium complexity level. In this course, students learn and practice to gain skill in making design reports by using AutoCAD and Sketch-Up software, and presenting it in an attractive presentation (2D, 3D, and animation).
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 requirements to pass the course. Students will pass from this course if at least have a good attitude. The final mark will be weight as follow:



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No	CO	Assessment Object	Assessment Technique	Weight
1	CO1- CO3	a. Mid Exam b. Course Project c. Presentation d. Software Performance e. Attendance	Observation Result assessment Observation Observation Written Data	30% 40% 10% 10% 10%
Total				100%
Forms of media:		Board, LCD Projector, Laptop/Computer		
Literature:		<ol style="list-style-type: none"> <li>1. Palmer, Mickey A. 1981. <i>The Architect's Guide to Facility Programming</i>. The American Institute of Architects, 1735 New York Avenue.</li> <li>2. Callender, John Hancock. 1974. <i>Time Saver Standards for Architectural Design Data</i>. Fifth Edition. McGraw – Hill Book Company, USA.</li> <li>3. H. K. Ishar. 1995. <i>Pedoman Umum Merancang Bangunan</i>. PT. Gramedia Pustaka Utama, Jakarta.</li> <li>4. Riandy Tarigan. 2016. <i>Metoda Penyusunan Prototipe Denah</i>. Andi, Yogyakarta.</li> <li>5. Pena, William. 1968. <i>Penyelusuran Masalah, Sebuah Dasar Penyusunan Program Arsitektur</i>. Intermatra, Bandung.</li> <li>6. Krier, Rob. 2001. <i>Komposisi Arsitektur</i>. Erlangga, Jakarta.</li> <li>7. White, Edwar T. <i>Concept Sourcebook</i>. A Vocabulary of Architectural Forms. Tucson, Arizona.</li> <li>8. Julius Panero, AIA, ASID. 1979. <i>Dimensi Manusia &amp; Ruang Interior. Buku Panduan untuk Standar Pedoman Perancangan</i>. Erlangga, Jakarta.</li> <li>9. Ching, Francis D.K. 1996. <i>Arsitektur. Bentuk, Ruang, dan Tatanan</i>. Erlangga, Jakarta.</li> <li>10. Y.B. Mangunwijaya. 1995. <i>Wastu Citra</i>. Pengantar ke Ilmu Budaya Bentuk Arsitektur, Sendi-sendi Falsafahnya beserta Contoh-contoh Praktis. Gramedia Pustaka Utama, Jakarta.</li> <li>11. Yan Dianto, Drs. 1985. <i>Dasar-Dasar Arsitektur</i>. Volume 1-4. M2S, Bandung</li> <li>12. Setyo Soetiadji S. 1985. <i>Anatomi Denah</i>. Djambatan, Jakarta.</li> <li>13. Setyo Soetiadji S. 1985. <i>Anatomi Tampak</i>. Djambatan, Jakarta.</li> <li>14. Setyo Soetiadji S. 1985. <i>Anatomi Struktur</i>. Djambatan, Jakarta.</li> <li>15. Setyo Soetiadji S. 1985. <i>Anatomi Utilitas</i>. Djambatan, Jakarta.</li> <li>16. Djauhari Sumintardja. 1978. <i>Kompendium Sejarah Arsitektur</i>. Yayasan Penyelidikan Masalah Bangunan, Bandung.</li> <li>17. R. Sutrisno. 1983. <i>Bentuk Struktur Bangunan Dalam Arsitektur Modern</i>. Gramedia, Jakarta.</li> <li>18. Ching, Francis D.K. 2018. <i>Ilustrasi Struktur Bangunan. Pola, Sistem, dan Desain</i>. Edisi Kedua, Erlangga, Jakarta.</li> </ol>		



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	<p>19. Noor Cholis Idham. 2016. <i>Arsitektur dan Kenyamanan Termal</i>. Andy, Yogyakarta.</p> <p>20. Rustam Hakim. 1993. <i>Unsur Perancangan dalam Arsitektur Lansekap</i>. Bumi Aksara, Jakarta.</p> <p>21. Parmonangan Manurung. 2012. <i>Pencahayaan Alami dalam Arsitektur</i>. Andi, Yogyakarta.</p> <p>22. Handi Chandra. 2001. <i>AutoCAD 3 Dimensi, Pemodelan dan Animasi</i>. Elex Media Komputindo, Jakarta.</p> <p>23. Wiryanto Dewobroto, 2013, <i>Komputer Rekayasa Struktur dengan SAP2000</i>, penerbit Dapur Buku, Jakarta, Indonesia.</p>
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
CO1			√		√	
CO2	√	√			√	√
CO3					√	