GoBali Study Abroad

ARCHITECTURE · NGURAH RAI UNIVERSITY

Course Guide

All architecture courses, learning objectives, weekly topics, exams and grading for your semester at Ngurah Rai University in Bali.

Ngurah Rai University | Bachelor level | Up to 30 ECTS | Taught in English

Contents

About the GoBali program 3

How to choose your courses 4

Architecture · Winter semester

Indonesian Language 6
Balinese Architecture and Cultural Studies 8
Architectural Development I 10
Drawing Balinese Architecture II 12
Community Services 14
Architectural Design Studio IV 16
Tropical Buildings 18
Urban Architecture II 20

Architecture · Summer semester

Indonesian Language 23
Form Aesthetics II 25
Drawing Balinese Architecture I 27
Architectural Design Studio III 29
Environmental, Architectural and Behavioral Sciences 31
Housing and Settlements 33
Urban Architecture I 35
Cultural Appreciation 37

The GoBali grading scale 39

About the GoBali program

GoBali Architecture & Engineering is a study abroad program at Ngurah Rai University in Bali, Indonesia, for bachelor (undergraduate) students. You study side by side with Indonesian students.

Program requirements

A full-time course load for regular students is about 30 ECTS per semester. GoBali students take at least 15 ECTS per semester.

Credits

Ngurah Rai University awards Indonesian credit points (SKS). Each course in this guide shows both values, SKS and ECTS, so you can transfer the credits to your home university easily.

How to choose your courses

Before you apply

- Read this course guide and make a pre-selection.
- Don’t choose your courses at random: check the requirements of your home university and your major.
- Discuss your choice with the coordinator or your department / major advisor at your home university.

With your application

Choose your courses with your application. Changes after the end of the regular application period are not possible.

Course management

Every student has an account in Ngurah Rai University’s student self-service system, where you manage your courses yourself within the deadlines.

ARCHITECTURE & ENGINEERING

Architecture · Winter semester

Courses offered in the winter semester (from September).

Indonesian Language	2 SKS · 3 ECTS
Balinese Architecture and Cultural Studies	2 SKS · 3 ECTS
Architectural Development I	3 SKS · 5 ECTS
Drawing Balinese Architecture II	2 SKS · 3 ECTS
Community Services	3 SKS · 5 ECTS
Architectural Design Studio IV	4 SKS · 6 ECTS
Tropical Buildings	2 SKS · 3 ECTS
Urban Architecture II	2 SKS · 3 ECTS

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Indonesian Language

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Lab Bahasa UNR

EXAMS
Written midterm and final exam

Description

The Indonesian Language course, a general basic course, emphasizes the skills of using good and correct Indonesian in speaking, listening, reading, and writing. The course also aims to instill a love for the Indonesian language. Students are required to be active in lectures both inside and outside the classroom because the course is student-centered. Teaching methods vary: discussions, presentations, assignments, simulations, and PBL (problem-based learning).

Learning objectives

- Able to know the function of language and can speak both orally and verbally correctly by the language structure that applies in the community and academic environment.
- Able to analyze correctly from various forms and types of scientific writing to provide the ability to be able to produce scientific papers by the field of science studied.

Subjects covered

A positive attitude towards the Indonesian language. A positive attitude can be realized by encouraging students to maintain the national language, prioritize it and use it as a symbol of their national identity, and use it according to the applicable rules.

Weekly topics

1. History and Position of Indonesian Language
2. Concept and Function of Language
3. Language Varieties and Registers
4. Spelling and Punctuation
5. Use of Affixes
6. Use of Conjunctions

7	Effective Sentences	11	Papers and Scientific Journals
8	Paragraphs	12	Summary, Abstract, and Synthesis
9	Types and Forms of Writing	13	Article
10	Language in Scientific Works		

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Direktorat Jenderal Pendidikan Tinggi, (2013). Bahasa Indonesia. Kemendikbud. Jakarta
2. Eko Kuntarto, (2020). Bahasa Indonesia: Untuk Perguruan Tinggi. Universitas Riau
3. Witari, M. R., & Sariasih, K. (2020). Pengaruh Kegiatan Pariwisata Terhadap Tatanan Spasial di Pura Desa dan Pura Puseh Desa Adat Batuan, Gianyar. Jurnal Anala, 8(2), 43-52.

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Balinese Architecture and Cultural Studies

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Ir. Ketut Witarka Yudiata, MT.

EXAMS
Written midterm and final exam

Description

The Balinese Architecture and Cultural Studies course aims to give students knowledge, understanding, attitudes and skills regarding Cultural Concepts, Philosophical Concepts, Practical and Useful Principles in Balinese Traditional Architecture, as well as their implementation in architectural works, as the basis of Architectural Planning and Design.

Learning objectives

Students master the theoretical concepts of architecture, architectural design, aesthetics, structural systems, and building utilities as well as mastering the principles of building science, landscaping, urban planning and design, settlements, Archipelago Architecture, ecology, and meaning in architecture.

Subjects covered

- Able to understand Culture and Cultural Concepts.
- Able to understand Cultural Systems and Shared Life.
- Able to understand the Stages of Cultural Development in Civilization.
- Able to understand Universal Values that are derived from Local Wisdom Values, in Cosmological, Spatial, and Architectural Aspects.
- Able to understand the Local Wisdom of Balinese Architecture and Culture implemented in philosophical concepts (tattwa).
- Able to understand the Local Wisdom of Balinese Architecture and Culture implemented in Practical Principles in Architectural Design (Practical Principles).
- Able to understand the Local Wisdom of Balinese Architecture and Culture implemented in Additional Beneficial Principles in Architectural Design (Beneficial Principles).

Weekly topics

1. Culture
2. Concept of Culture
3. Culture System
4. Shared Life
5. Stage of Cultural Development
6. The web of culture
7. Derivation of universal values
8. Local Wisdom Values, in Cosmological, Spatial, and Architectural Aspects
9. Philosophical Conception of Balinese Traditional Architecture
10. Practical Principles of Balinese Traditional Architecture
11. Additional Favorable Principles
12. Transformation and Application of Balinese Traditional Architecture Concepts and Principles

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Clyde Kluckhohn. 1989. Universal Categories of Culture. Paperback Press.
2. Gelebet, et All. 1982. Arsitektur Tradisional Daerah Bali. Kanwil Depdikbud.
3. Haruya Kagami. 1988. Balinese Traditional Architecture in Process. Little World Museum of Man.
4. Tim Kosala Sabha. 1996. Rumusan Arsitektur Tradisional Bali. BIC-Werdhapura-Dep.PU.
5. Koentjaraningrat. 2002. Manusia dan Kebudayaan Indonesia. Penerbit Djambatan.

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Architectural Development I

CREDITS
3 SKS · 5 ECTS

LANGUAGE
English

LECTURER
Siluh Putu Natha Primadewi, ST., MT.

EXAMS
Written midterm and final exam

Description

Architectural Development I is a scientific and skills course (MKK) in which students learn about the development of Asian and Archipelago architecture related to concepts, views, typology, morphology of forms and spaces, as well as natural and cultural influences on architecture.

Learning objectives

- Students can understand the concepts, views, typology, and morphology of architectural forms and spaces in Asia and the Archipelago.
- Students develop ideas for architectural designs that fit current and future contexts.
- Students understand the concepts and views of various Asian architectures
- Students can see the extent of the influence of Archipelago Architecture on the development of architecture in Indonesia
- Able to understand the extent of the influence of nature, environment, and culture on Asian architecture in general and specifically in the archipelago

Subjects covered

Architectural Development I discusses architecture in Asian and Archipelago architecture related to concepts, views, typology, morphology of form and space, as well as the influence of nature and culture on architecture.

Weekly topics

1. Culture and architecture
2. Vernacular architecture
3. Indonesian culture and architecture
4. Austronesian culture and architecture

5	Southeast Asian culture and architecture	8	West Asian culture and architecture
6	East Asian culture and architecture	9	Egyptian culture and architecture
7	South Asian culture and architecture	10	Vernacular architecture

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Nas. P.J.M. 2002. Masa Lalu dan Masa Kini Arsitektur di Indonesia. Jakarta: PT. Gramedia Pustaka Utama
2. Prijotomo, Yoseph. 1980. Pasang Surut Arsitektur di Indonesia. Surabaya: CV Ardju
3. Rapoport, Amos. 1969. House Form and Culture. Prentice Hall
4. Sopandi, Setiadi. 2013. Sejarah Arsitektur: Sebuah Pengantar. Jakarta: PT Gramedia Pustaka Utama
5. Sumintardjo, Djauhari., 1978. Kompendium Sejarah Arsitektur: Jilid 1. Bandung: Yayasan Lembaga Penyelidikan Masalah Bangunan.
6. Sumalyo, Yulianto. Arsitektur Kolonial Belanda di Indonesia. Yogyakarta: Gajah Mada University Press
7. Primadewi, S. P. N., & Nurjani, N. P. S. (2022). Arsitektur Regionalisme Tropis Hotel Alila Manggis, Bali. Quo Vadis Between Sustainable Architecture And Design Development. Jurnal Ilmiah Vastuwidya, 5(1), 1-9.

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Drawing Balinese Architecture II

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Dr. Ir. Ida Bagus Idedhyana, MT.

EXAMS
Written midterm and final exam

Description

This course provides methods and procedures of architectural drawing as well as training in the form of assignments so that students can represent Balinese architecture, both traditional Balinese and contemporary Balinese architecture in the form of 2-D and 3-D drawings.

Learning objectives

The course on drawing Balinese architecture II contains materials on traditional Balinese architecture: a) the development of traditional Balinese architecture and its application; b) philosophical foundations; c) umah, public buildings, and temples; d) proportion and scale in traditional Balinese architecture (asta kosala kosali and asta bumi); e) structure and construction; f) and decorative styles of traditional Balinese architecture. To improve students' ability in architectural drawing, the methods and procedures of architectural drawing are deepened with the addition of the theory of drawing techniques with color and pen, then practiced in training in the form of assignments. Thus, students can represent Balinese architecture, both traditional Balinese and contemporary Balinese architecture in two-dimensional and three-dimensional drawings using color and pen techniques manually.

Subjects covered

- To increase knowledge in the field of traditional Balinese architecture and its application to contemporary architecture, so that it can be applied and developed in architectural design.
- Develop the ability to draw architecture manually with color and pen techniques to produce visual works that can attract observers or clients.

Weekly topics

1. History and development of traditional Balinese architecture, from prehistoric times to modern Bali
2. Application of traditional Balinese architecture in contemporary architecture

3	Introduction to ancient Balinese architecture (Bali Aga) through observation
4	3-dimensional depiction of ancient Balinese architecture with manual color rendering technique
5	Drawing architecture with manual color techniques
6	Basics of drawing before coloring: Watercolor technique, Marker technique, Color pencil and pastel technique
7	Concept of Balinese traditional architecture
8	Balinese traditional architecture in practice
9	Deepening the architecture of sacred buildings by direct observation of the Kahyangan Jagat Temple in Bali

Grading

Continuous assessment	50%
Midterm exam	25%
Final exam	25%

Books and other sources

1. Atkins, B. tt. The Watercolor Technique of Architectural Rendering. California: Walter T. Foster
2. Borgman, H. 1984. Pen and Pencil Drawing Techniques. New York: Watson-Guptill Publications
3. Doyle, M. E. 2007. Color Drawing. Hoboken, New Jersey: John Wiley & Sons
4. Edward, B. 2008. Understanding Architecture Through Drawing. Milton Park: Taylor & Francis
5. Field, W. B. 1992. Architectural Drawing. New York: Mcgraw-Hill Book
6. Magginis, C. tt. Pen Drawing an Illustrated Treatise. Boston: Architectural Club
7. Schank, K. S. 2005. Architects Drawing: A Selection of Sketches by World-Famous Architects Through History. Oxford: Architectural Press
8. Storey, A. R. A. 1908. Theory and Practice of Perspective. Oxford: Clarendon Press
9. Wang, T. 2001. Pencil-Sketch. New York: John Wiley & Sons
10. Davison, J. and B. Granquist. 2012. Balinese Temple. Jakarta: PT. Wira Mandala Pustaka

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Community Services

CREDITS	LANGUAGE
3 SKS · 5 ECTS	English
LECTURER	**EXAMS**
LPPMK UNR	Group Presentation/ Seminar

Description

This course includes practical activities outside the classroom that students must master before participating in activities at the community services location. The material provided according to the scientific field will be given in the faculty briefing which includes the competency areas of the study program in dealing with various community problems in the designated community services location. Students are also expected to collaborate with other study programs to create multidisciplinary programs in solving problems in the community. This course utilizes a team-based project learning method where groups are given a real problem that occurs in the community and then given space to create a work plan and collaboration model. Each group also prepares a presentation that is shown to be able to provide constructive feedback. In addition, the supervisor also coaches each group during the activity and encourages students to think critically and creatively in collaboration.

Learning objectives

- Able to cooperate with other individuals and across disciplines, contributing ideas according to their respective fields of knowledge to contribute to the resolution of factual problems faced in society.
- Able to analyze ideas and problems and offer solutions related to how to respond to information literacy.
- Students can respond to and create solutions to architectural problems that exist in the KKN / KAT location that are not only appropriate but also right on target.
- Able to present, and be accountable for their ideas in the form of reports, reportage, journals, and service seminars.

Subjects covered

The material provided according to the scientific field will be given in the faculty briefing which includes the competency areas of the study program in dealing with various community problems in the designated Community Services location. Students are also expected to collaborate with other study programs to create multidisciplinary programs in solving problems in the community.

Weekly topics

1	The Importance of Community Services
2	Purpose and Philosophy of Community Services
3	Survey technique
4	Code of Conduct for Community Services
5	Theory of Activity Report Preparation
6	Mono-discipline and multi-discipline
7	Reportage Report
8	Documentation Reportage
9	Information Literacy
10	Problem Solution
11	Architectural Products
12	Understanding of Architecture for Target Groups
13	Activity Implementation
14	Creation of Architectural Products
15	Creation of Reportage

Grading

Continuous assessment	70%
Final presentation	30%

Books and other sources

1. UNR Community Services Guide Book

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Architectural Design Studio IV

CREDITS
4 SKS · 6 ECTS

LANGUAGE
English

LECTURER
Ir. Made Mariada Rijasa, ST., MT.

EXAMS
Written midterm and final exam

Description

In this fourth part of the architectural design studio course series, architecture is studied at an intermediate stage. The object being designed has a complex level of problems. It has a main function, with other functions as additions. In designing, students not only pay attention to aesthetic architectural formations, but also take into account the conditions of the site and its environment, predict the effect of climate on buildings, pay attention to functions and their links with the wider environment-region, and pay attention to the organization of functions, circulation, and even the interior space. Concepts of ideas on these aspects are developed in the form of design drawings. In the end, students are expected to be able to present the design results in graphic, model, and verbal forms. This course utilizes the case study model, which in this case analyzes the design needs of special schools (SLB) or the like to be able to develop recommendations for design solutions, which are assisted by group sessions to test and develop design solutions.

Learning objectives

- Mastery of the program and concept of designing a design object that has a main function and is accompanied by other functions.
- Ability to produce design drawings and mockups or SketchUp models of design object mass changes.

Subjects covered

In this fourth part of the architectural design studio course series, architecture is studied at an intermediate stage. The object being designed has a complex level of problems. It has a main function, with other functions as additions. In designing, students not only pay attention to aesthetic architectural formations, but also take into account the conditions of the site and its environment, predict the effect of climate on buildings, pay attention to functions and their links with the wider environment-region, and pay attention to the organization of functions, circulation, and even the interior space. Concepts of ideas on these aspects are developed in the form of design drawings. In the end, students are expected to be able to present the design results in graphic, model, and verbal forms.

Weekly topics

1. Design in Architecture
2. Literature study, precedent study and site survey
3. Meaning of function, type of community and facility needs, type of activity
4. Program requirements: size, relationships and organization of spaces
5. Existing site study, site selection, and site potential analysis
6. Basic concept and design theme
7. Design Concept
8. Design drawings, from details to perspective

Grading

Continuous assessment	50%
Midterm exam	25%
Final exam	25%

Books and other sources

1. Ching, Francis D.K. 1995. A Visual Dictionary of Architecture. New York: Van Nostrand Reinhold.
2. Ching, Francis D.K. 2008. Arsitektur: Bentuk, Ruang, dan Susunannya. Terjemahan: Hanggan Situmorang. Jakarta: Penerbit Erlangga.
3. De Chiara, Joseph & Callender, John H. 1980. Time-Saver Standards for Building Types. New York: McGraw-Hill, Inc
4. Neufert, Ernst & Peter. 2003. Architects' Data, 3rd ed. Blackwell Science. New York: John Wiley & Sons, Inc.
5. Tangoro, Dwi, Somaatmadja A.S. & Sukardi, K. 2005. Ilmu Bangunan Struktur Bangunan Rendah. Jakarta: UI-Press.

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Tropical Buildings

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Ir. Ayu Putu Utari Parthami Lestari, ST., MT.

EXAMS
Written midterm and final exam

Description

Tropical Buildings studies the behavior of buildings as a medium of architecture in the tropics, with the focus of discussion emphasized on the location of Indonesia. The course discusses tropical mindset and life, basic principles of architectural design in the tropics, and how buildings respond to the climate. Students will gain a theoretical understanding of the influence of tropical climate and natural environmental conditions on buildings and architectural development. It introduces tropical building typology and studies the influence of tropical natural characteristics on climatic factors; including sun, rain, wind, air conditions, and thermal comfort aspects. With this understanding, students can find solutions to design forms, use materials suited to tropical climates, and solve construction problems.

Learning objectives

- Understand the tropical climate and its influence on buildings and architectural development.
- Apply the principles of climate-responsive design: orientation, shading, natural ventilation and rain protection.
- Choose materials and construction methods suited to tropical climates.
- Analyze vernacular and contemporary tropical buildings in Indonesia and write a scientific paper on a tropical or green architecture topic.

Subjects covered

Tropical climate; Thermal comfort; Shading and solar protection; Natural ventilation; Rain protection; Building materials for the tropics; Vernacular architecture; Green architecture in the tropics.

Weekly topics

1. Introduction: tropical climate and architecture in the tropics
2. Tropical mindset and life: living in a hot and humid climate
3. Climate factors: sun, rain, wind and humidity
4. Thermal comfort in the tropics
5. Sun path, shading and solar protection
6. Natural ventilation and air flow in buildings
7. Rain, roofs and protection against moisture
8. Building materials for tropical climates
9. Tropical building typology and vernacular architecture in Indonesia
10. Traditional Balinese architecture as a response to the climate
11. Green architecture in the tropics: energy efficiency and sustainability
12. Rating systems for green buildings
13. Design exercise: a climate-responsive tropical building

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Koenigsberger, O. H., T. G. Ingersoll, A. Mayhew and S. V. Szokolay. 1974. *Manual of Tropical Housing and Building: Climatic Design*. London: Longman.
2. Lippsmeier, Georg. 1980. *Building in the Tropics*. Munich: Callwey.
3. Ardiani, Mila, Sustainable Architecture, Jakarta, Erlangga, 2016.
4. Buchanan, Peter, Ten Shades of Green: Architecture and the Natural World, 2005.
5. Kibert, Charles J. 2002. Sustainable Construction: Green Building Design. John Wiley & Sons.
6. Minke, Gernot, Building with Earth. Birkhauser. 2006.
7. Roaf, Sue, Ecohouse: A Design Guide. Oxford: Architectural Press,2001.
8. Bauer, Michael, Green Building: Guidebook for Sustainable Architecture. Heidelberg: Springer. 2010.
9. Sassi, Paola, Strategies For Sustainable Architecture. New York: Taylor & Francis.2006.
10. Patel, Mukund R. Wind and Solar Power Systems. New York: Taylor & Francis.2006.
11. Vale, Brenda and Robert, Green Architecture Design for a sustainable Future, London, Thames and Hudson. 1991.

ARCHITECTURE · WINTER SEMESTER · ARCHITECTURE & ENGINEERING

Urban Architecture II

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Ir. Ayu Putu Utari Parthami Lestari, ST., MT.

EXAMS
Written midterm and final exam

Description

The Urban Architecture II course introduces and critically analyzes the concepts, ideas, and theories that shape city design in a global context. This course gives students the ability to understand that urban planning is the formation of public spaces that are influenced by political, social, and economic aspects. Coverage of topics includes (1) Analysis of cities with political power, city planning with urban characteristics, levels of city density and the creation of illegal cities (squatter settlements), city structure and diversity of users, public space and daily use, new cities and the formation of inner cities, (2) Theoretical criticism of cities based on: social, economic and political conditions underlying the formation of cities, sustainable development, level of life and safety of users, and equality of access, as well as the politics of city branding.

Learning objectives

- Scientific work assignments are carried out to support the professional skills of architectural scholars.
- The ability to analyze and write scientific papers on urban topics that meet the rules of scientific writing.

Subjects covered

The Urban Architecture II course develops students' understanding and ability to know and understand the city as a built environment, a place for human habitation with social, cultural, economic, and political diversity; able to understand the relationship between architectural appreciation about its spatial physical environment; able to understand the process of designing urban areas; programming, design concepts and theories, methods and models of area control, and management of urban area development.

Weekly topics

1. City Architecture Scope of Learning
2. Concept of city structure and system

3	Urban Morphology
4	Urban density, urbanism and city typology
5	Forces in urban design: rulers, politics and their interests
6	The Center of Power and its representation
7	Public Space and its daily use
8	Power and latent resistance
9	Democracy and politics in public space
10	Edge cities and history
11	Sprawl and New Urbanism
12	The Urban Slippage
13	Globalization and Sustainability
14	Lecture summary

Grading

Continuous assessment	50%
Midterm exam	25%
Final exam	25%

Books and other sources

1. Gehl, J. Life Between Buildings, New York: Van Nostrand, 1997
2. Jacobs, J (1965). “The Need for Concentration” from The Death and Life of Great American Cities, Harmondsworth: Penguin.
3. Krier, Rob (2003). Typological and morphological Elements of the Concept of Urban Space. In Cuthbert, A (ed). Designing Cities: Critical Readings in Urban Design. Oxford: Blackwell.
4. Lynch, K (1969). The Image of the City, Cambridge: MIT Press.
5. Wirth, L (1996). Urbanism as a way of life, Le Gates, R. & Stout, F. (eds) The City Reader, London: Routledge

ARCHITECTURE & ENGINEERING

Architecture · Summer semester

Courses offered in the summer semester (from February).

Indonesian Language	2 SKS · 3 ECTS
Form Aesthetics II	2 SKS · 3 ECTS
Drawing Balinese Architecture I	3 SKS · 5 ECTS
Architectural Design Studio III	4 SKS · 6 ECTS
Environmental, Architectural and Behavioral Sciences	3 SKS · 5 ECTS
Housing and Settlements	2 SKS · 3 ECTS
Urban Architecture I	2 SKS · 3 ECTS
Cultural Appreciation	2 SKS · 3 ECTS

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Indonesian Language

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Lab Bahasa UNR

EXAMS
Written midterm and final exam

Description

The Indonesian Language course, a general basic course, emphasizes the skills of using good and correct Indonesian in speaking, listening, reading, and writing. The course also aims to instill a love for the Indonesian language. Students are required to be active in lectures both inside and outside the classroom because the course is student-centered. Teaching methods vary: discussions, presentations, assignments, simulations, and PBL (problem-based learning).

Learning objectives

A. Able to know the function of language and can speak both orally and verbally correctly by the language structure that applies in the community and academic environment. B. Able to analyze correctly from various forms and types of scientific writing to provide the ability to be able to produce scientific papers by the field of science studied.

Subjects covered

A positive attitude towards the Indonesian language. A positive attitude can be realized by encouraging students to maintain the national language, prioritize it and use it as a symbol of their national identity, and use it according to the applicable rules.

Weekly topics

1. History and Position of Indonesian Language
2. Concept and Function of Language
3. Language Varieties and Registers
4. Spelling and Punctuation
5. Use of Affixes
6. Use of Conjunctions

7	Effective Sentences	11	Papers and Scientific Journals
8	Paragraphs	12	Summary, Abstract, and Synthesis
9	Types and Forms of Writing	13	Article
10	Language in Scientific Works		

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Direktorat Jenderal Pendidikan Tinggi, (2013). Bahasa Indonesia. Kemendikbud. Jakarta
2. Eko Kuntarto, (2020). Bahasa Indonesia: Untuk Perguruan Tinggi. Universitas Riau
3. Witari, M. R., & Sariasih, K. (2020). Pengaruh Kegiatan Pariwisata Terhadap Tatanan Spasial di Pura Desa dan Pura Puseh Desa Adat Batuan, Gianyar. Jurnal Anala, 8(2), 43-52.

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Form Aesthetics II

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Ir. I Gusti Bagus Adnyanegara, M.Erg.

EXAMS
Written midterm and final exam

Description

Form Aesthetics II is a course that aims to provide an understanding of the aesthetics of form as a basis in architectural design. This course studies composition in design, design principles, and material character, by applying composition exercises using materials such as nails, wool yarn, cardboard, Styrofoam, and others to develop the ability to communicate ideas in 3D.

Learning objectives

- Able to understand the character of materials and apply them in the form of compositional aesthetic rules.
- Able to develop the sensitivity to transform and communicate ideas and thoughts into 3D compositions.
- Able to understand the application of aesthetic knowledge of form including knowledge of visual elements and design principles in architectural design.
- Able to analyze architectural forms based on knowledge of form aesthetics.

Subjects covered

The Aesthetics of Form II course aims to explore the concepts of 3-D in fine arts, especially focusing on the Concept of 3-D -Point and the Concept of 3-D -Composition of plural forms. Through a deep understanding of these concepts, students are expected to be able to develop aesthetic sensitivity and sensitivity to visual elements in works of art. The 3-D -Point Concept refers to the understanding of the central role of points in shaping visual compositions and how these points can influence artistic perception. The concept of 3-D -Plural Composition explores the dynamics and harmony arising from the interaction between visual elements in a complex composition. By studying these two concepts, students will be able to develop the ability to design artworks that have deep and diverse aesthetic qualities. In addition, an understanding of the Tri3-D will also enable them to appreciate and analyze artworks more comprehensively, as well as apply these aesthetic principles in their art practice.

Weekly topics

1. Composition, elements of composition/elements of form
2. Principles of composition in design
3. Character of materials
4. Point composition
5. Bar composition
6. Single shape composition
7. Composition of multiple shapes
8. Free-form composition using a free combination of materials
9. Elements and principles of design in design drafting

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Ching, Francis D. K., Arsitektur: Bentuk, Ruang dan Susunannya
2. HK. Ishar, Pedoman Umum Rancang Bangunan
3. Wucius Wong, Beberapa Asas Merancang Dwi Mantra
4. Meilach, Donaz, Hinz, Jay, Bill, How To Create Your Own Design

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Drawing Balinese Architecture I

CREDITS
3 SKS · 5 ECTS

LANGUAGE
English

LECTURER
Dr. Ir. Ida Bagus Idedhyana, MT.

EXAMS
Written midterm and final exam

Description

This course provides methods and procedures of architectural drawing as well as training in the form of assignments so that students can represent Balinese architecture, both traditional Balinese and contemporary Balinese architecture in the form of 2-D and 3-D drawings.

Learning objectives

- Understand manual and digital drawing as a basic skill in architectural presentation.
- Gain a general understanding of traditional Balinese architecture and examples of its application in contemporary architecture.
- Understand the principles and procedures of architectural drawing
- Understand projection in general and perspective in particular
- Make perspective drawings with more than 2 vanishing points
- Understand drawing shadows, and their application in 2-D and 3-D drawings
- Understand drawing supporting elements and their application in 2-D and 3-D drawings.
- Able to apply contrast, shading, and shadows in the completion of perspective drawings with rendering techniques (shading) using pencil and charcoal (charcoal pencil).

Subjects covered

This course offers students an enhanced ability to have a general understanding of traditional Balinese architecture and analyze its application to contemporary architecture as well as the principles and procedures of architectural drawing.

Weekly topics

1. Presentation of architectural drawings
2. Balinese Traditional Architecture in general

3	Principles and procedures of architectural drawing
4	Perspective
5	Supporting elements in architectural drawing
6	Rendering technique (shading)
7	Shadow technique
8	Contrast, shading, and shadow techniques

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Burden, E. 1990. Penyajian Gambar Arsitektur. Jakarta: Erlangga
2. Schaarwatcher. 1991. Perspektif Untuk Para Arsitek. Jakarta: Erlangga
3. Ching.-Francis. D. K. 2010. Grafik Arsitektur. Jakarta: Indeks
4. Hendrato. T. 2014. Dasar-Dasar Menggambar Arsitektur. Jakarta: Griya Kreasi
5. Wang. T. 2001. Pencil-Sketch. New York: John Wiley & Sons
6. Gelebet. I. N. 1986. Arsitektur Tradisional Daerah Bali. Denpasar: Departemen P dan K
7. Dwijendra. A. N. K. 2008. Rumah Tradisional Bali. Denpasar: Udayana University Press
8. Dwijendra. A. N. K. 2008. Arsitektur Bangunan Suci Hindu. Denpasar: Udayana University Press

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Architectural Design Studio III

CREDITS
4 SKS · 6 ECTS

LANGUAGE
English

LECTURER
Siluh Putu Natha Primadewi, ST., MT.

EXAMS
Written midterm and final exam

Description

Architecture Design Studio III is the third part of a series of architecture design studio courses at the intermediate stage. Architectural Design Studio 3 introduces the function of supporting buildings, understanding the building is not only an aesthetic architectural form but the building as part of its environment. Architecture Design Studio 3 provides architectural design with multiple masses, commercial functions, and consideration of various planning and design factors.

Learning objectives

- Able to use the designer's way of thinking in designing certain functions (commercial) with supporting functions
- Able to apply design methods comprehensively
- Able to analyze user needs and environmental potential
- Able to apply building and environmental standards with certain functions (commercial)
- Able to create design concepts with third-place theory
- Able to explain design schemes related to the concepts and approaches used
- Able to produce design drawings and mockups that are standardized, informative, and creative

Subjects covered

This course offers the ability to prepare architectural design concepts that integrate the results of the study of behavioral aspects, environment, technical, and values related to architecture for students so that they will be able to design architecture independently with research-based design methods, and produce creative architectural works, which are contextualized solutions to architectural problems, and theoretically tested against architectural principles. Students will also be able to communicate their thoughts and design results in the form of graphics, writing, and communicative models with manual and digital techniques, and be able to present several alternative design solutions and make a choice decision based on architectural scientific considerations at the end of the lecture.

Weekly topics

1. Site Analysis
2. Space Program
3. Basic Design Concept
4. Concept Transformation
5. Schematic Design
6. Design Development
7. Work Representation

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Ching, Francis DK (2007). Architecture, Form, Space and Order. New York: John Wiley & Sons
2. Jones, Christopher J. 1970. Design Methods: Seeds of Human Futures. London: Wiley Interscience
3. Oldenburg, R., & Brissett, D. (1982). The third place. Qualitative Sociology, 5(4), 265– 284.
4. De Chiara, Joseph and Crosbie, Michael J (2001). Time-Saver Standards for Building Types. New York: Mc Graw-Hill Professional
5. Neufert, Ernst (2000). Architects' Data, 3rd ed. Victoria: Blackwell Science Ltd

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Environmental, Architectural and Behavioral Sciences

CREDITS
3 SKS · 5 ECTS

LANGUAGE
English

LECTURER
Ir. Ketut Witarka Yudiata, MT.

EXAMS
Written midterm and final exam

Description

Environmental Science aims to give students knowledge, understanding, attitudes and skills regarding the Basics of Environmental Science, Local Wisdom in the Environmental Field, as well as Environmental Insight and its Implementation in development, as the basis of Architectural Planning and Design.

Learning objectives

- Understand environmental science and the basics of ecology
- Understand the rules of ecology and local wisdom in the field of environment
- Understand environmental science and basic principles in environmental impact analysis.
- Understand humans and their environment, as well as their relationship with economic growth and their interconnection with socio-cultural aspects, as an implementation of the concept of sustainable development.
- Understand the development of urban planning, regional planning, and national planning, which is implemented in Spatial Planning Documents such as RUTR, RTRW, RDTR, RTBL, etc.
- Understand environmentally sound development based on culture
- Understand biological/ biomorphic architecture planning, green architecture, energy- efficient architecture, modular coordination, etc.

Subjects covered

Students master the principles of Building Science, Landscape, City Planning and Design, Settlement, Archipelago Architecture, Ecology, and meaning in architecture.

Weekly topics

1. Environmental Science and Ecology
2. Rules of Ecology
3. Environmental Science and Basic Principles
4. Humans and their Environment
5. Environmental Management
6. Urban Development, Regional Planning, and National Planning
7. Environmentally Sound Development
8. Biological/ Biomorphic Architecture Planning

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Budiharjo, Eko. 1993. Kota Berwawasan Lingkungan. Alumni
2. Emil Salim. 1986. Pembangunan Berwawasan Lingkungan. LP3ES.
3. Eugene P. Odum. 1993. Dasar-Dasar Ekologi. Gadjah Mada University Press.
4. Haryadi; B. Setiawan. 2010. Arsitektur Lingkungan dan Perilaku. Gadjah Mada University Press.
5. Otto Sumarwoto. 1997. Analisis mengenai Dampak Lingkungan. Gadjah Mada University Press.
6. Heinz Frick. 1988. Arsitektur dan Lingkungan. Kanisius
7. Siswono Yudo Husodo. 1996. Koordinasi Modular. ITB
8. Slamet Riyadi. 1981. Ekologi, Ilmu Lingkungan Dasar-Dasar & Pengertiannya. Usaha Nasional.
9. Soedijaran R. 1993. Pengantar Ekologi. Remaja Rosdakarya.
10. Soeriatmadj A. 1987. Ilmu Lingkungan. ITB.

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Housing and Settlements

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Dr. Ir. Luh Putu Dessy Dharmayanthy, MT.

EXAMS
Written midterm and final exam

Description

The Housing and Settlements course is a course that can provide students with information about housing problems and urban and rural settlement areas, and about meeting the housing needs of the community by the principles of decent and ideal housing and settlement areas.

Learning objectives

- Able to understand the meaning of housing and residential areas
- Able to understand settlement architecture and basic elements of settlements
- Able to understand housing patterns and environments in settlement development
- Able to understand the infrastructure needs (infrastructure) of housing and settlements, about city infrastructure
- Able to understand the infrastructure needs (facilities) of housing and settlements, about city infrastructure
- Able to understand related government regulations on housing and settlement areas
- Able to understand housing and settlements for low-income people.
- Able to understand planning and licensing mechanisms, settlements, and housing.
- Able to recognize the growth and criteria of slum housing.
- Able to understand the implementation of housing and residential areas about spatial plans.
- Able to understand the organization of communal vertical housing in urban areas.
- Able to understand law enforcement in housing and settlement arrangements.

Subjects covered

The Housing and Settlement course is a course that can develop students' understanding and ability to know and understand the knowledge of housing and settlement problems in relation to the urban or rural environment, so as to develop proper housing planning and meet the needs of the community and stay on the appropriate regulatory path.

Weekly topics

1. Settlement architecture and basic elements of settlements
2. Housing patterns in an area, neighborhood, and urban/rural settlement development
3. Housing infrastructure needs about city infrastructure
4. Settlement facilities about infrastructure and urban development plans
5. Government regulations on housing and settlements
6. Housing and settlements of low-income communities
7. Planning and licensing mechanisms for housing and settlement development
8. Criteria and growth of slum areas
9. Implementation of housing and settlements about the spatial plan
10. Implementation and management of communal vertical housing and its problems
11. Regulation and law enforcement in the implementation of housing

Grading

Continuous assessment	50%
Midterm exam	25%
Final exam	25%

Books and other sources

1. Doxiadis C. A (1967) Ekistics An introduction to The Science of Human Settlements
2. Tower Graham,2005; At Home in the city, an introduction to urban housing design
3. Waterson Roxana,1990; The Living house, An Anthropology of Architecture in South-East Asia
4. Budiharjo eko (1994); Percikan masalah arsitektur perumahan perkotaan, Gajah Mada University

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Urban Architecture I

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Ir. Ayu Putu Utari Parthami Lestari, ST., MT.

EXAMS
Written midterm and final exam

Description

The Urban Architecture I course develops students' understanding and ability to know and understand the city as a built environment, a place where humans live with social, cultural, economic, and political diversity; able to understand the relationship between appreciation of architecture about its spatial physical environment; able to understand the urban area design process; programming, design concepts and theories, area control methods and models, and urban area development management.

Learning objectives

- Understand the city as a built environment, where people live with social, cultural, economic, and political diversity
- Understand the interrelationship of architectural appreciation about its physical spatial environment
- Understand the process of designing urban areas; programming, design concepts and theories, methods and models of area control, and management of urban area development.

Subjects covered

The Urban Architecture I course aims to develop students' understanding and ability to understand the city as a complex built environment, where humans live with various social, cultural, economic, and political aspects. Through this course, students are expected to understand the close relationship between the appreciation of architecture and the physical spatial environment of the city. In addition, the objectives of this course also include an understanding of the process of designing urban areas, including programming, concepts, design theories, area control methods, and management of urban development. Thus, students will be able to develop the necessary skills to contribute to the planning, development, and management of sustainable and competitive cities.

Weekly topics

1. Scope and definition of urban architecture
2. Urban design
3. Elements of Urban Design
4. Urban Form & Dynamics
5. City as a Product
6. Figure Ground Plan Theory
7. Linkage Theory
8. Place Theory
9. City as Process

Grading

Continuous assessment	50%
Midterm exam	25%
Final exam	25%

Books and other sources

1. Lynch, Kevin. 1991. Image of The City. Singapore: Time Editions Pte. Ltd.
2. Shirvani, Hamid. 1985. The Urban Design Process. New York: Van Nostrand
3. Kevin Lynch. 1981. Good City Form. MT Press. Cambridge
4. Roger Trancik. 1986. Finding Lost Space: Theories of Urban Design. Van Nostrand Reinhold Company. New York.
5. Christian Norbert Schulz. 1979. Genius Loci. Rizzoli International Publications. New York.
6. Simon Eisner, Athur Gallion, Stanley Fisher. 1993. The Urban Pattern. Van Nostrand Reinhold Co. New York.
7. Zahnd, Markus.1999. Perancangan Kota Secara Terpadu.Kanisius. Yogyakarta.

ARCHITECTURE · SUMMER SEMESTER · ARCHITECTURE & ENGINEERING

Cultural Appreciation

CREDITS
2 SKS · 3 ECTS

LANGUAGE
English

LECTURER
Ir. Agus Wiryadhi Saidi, M.Si.

EXAMS
Written midterm and final exam

Description

This course provides an understanding of culture, art and philosophy. It teaches the forms of culture as a group of ideas, groups of activities, and cultural objects. It covers the role and influence of science, technology and the economy on architecture as a cultural product. Exploration of contemporary issues in architectural theory and practice with an emphasis on understanding their philosophical and ideological foundations about Indonesia and developing countries. The culmination of national culture, its meaning, and its position in the future.

Learning objectives

- Understand architecture as a result of culture
- Understand cultural philosophy, especially cultural strategies
- Understand cultural dynamics, especially in terms of historical approaches along with architectural cases
- Understand the aspects that become symptoms of cultural shifts
- Understand modernization in design
- Understand the aspect of image as a cultural approach in architecture
- Understand the aspects that underlie the image of a house
- Understand the dynamics of culture in terms of the development of culture in Indonesia: colonialism and after independence, culture in Asia: India, Japan, and China
- Understand the aspects that underlie the emergence of architectural imagery in Indonesia and Asia
- Able to explain the dynamics of culture in architecture and understand the dynamics of culture in terms of the development of Western architecture, post-modern Western architecture

Subjects covered

Cultural Appreciation is a course that aims to provide an understanding of architecture as part of culture. This course also provides an understanding of the cultural dynamics that occur and their influence on the development of architecture.

Weekly topics

1. Definition of culture and architecture as a result of culture
2. Stages of Cultural Development
3. Cultural Dynamics
4. Shifting Cultural Values
5. Modernization in Design
6. Use of Image in Architecture
7. Communication in Architecture
8. Architectural image in Indonesia and Asia
9. Overview of cultural dynamics in terms of form, function, and meaning

Grading

Continuous assessment	**50%**
Midterm exam	**25%**
Final exam	**25%**

Books and other sources

1. Tanudjaja, F.C.J.S. 1988. Diktat Kuliah Pengantar Kepada Apresiasi Budaya. Universitas Atma Jaya: Yogyakarta
2. Mangunwijaya, Y.B. 1988. Wastu Citra. PT. Gramedia: Jakarta
3. Van Peursen, C.A. 1976. Strategi Kebudayaan. PT. Gramedia: Jakarta
4. Seminar UI. 1985. Pencerminan Nilai Budaya dalam Arsitektur. Penerbit Djambatan: Jakarta
5. Budiharjo, Eko. 1997. Arsitektur sebagai Warisan Budaya. Djambatan: Jakarta
6. Rapoport, Amos. 1969. House Form and Culture The GoBali program is using the European ECTS grading scale as follows: ECTS % Definition Grade A+ 100 – 95 Outstanding performance with only minor errors A 94 – 90 B+ 89 – 85 Above the average standard but with some errors B 84 – 80 C+ 79 – 75 C 74 – 70 Generally sound work with a number of notable errors C- 69 – 65 D 64 – 60 Fair but with significant shortcomings E+ 59 – 54 Performance meets the minimum criteria E 54 – 50 F 49 – 0 Fail Calculation of final grades GoBali transcripts indicate the final grade achieved in each subject studied. Each course will be graded differently, based on the system described in the course descriptions herein. Transcripts Transcripts are sent to the you usually 6 – 8 weeks after the exams. Please note that we do not convert our grades for international universities. Each university will convert the grades obtained by its students according to its own criteria. A detailed explanation of GoBali's grading system is sent to you with the transcripts. Re-Sit Exams Please note that there are no re-sit exams at Ngurah Rai University for the GoBali program.

The GoBali grading scale

GoBali uses the European ECTS grading scale.

GRADE	PERCENT	DEFINITION
A+	95–100	Outstanding performance with only minor errors
A	90–94	
B+	85–89	Above the average standard but with some errors
B	80–84	
C+	75–79	Generally sound work with a number of notable errors
C	70–74	
C−	65–69	
D	60–64	Fair but with significant shortcomings
E+	55–59	Performance meets the minimum criteria
E	50–54	
F	0–49	Fail

Calculation of final grades

Your transcript shows the final grade for each course. Each course is graded as described in its course description in this guide.

Transcripts

Transcripts are usually sent to you 6–8 weeks after the exams. We don't convert our grades for international universities: each university converts the grades of its students according to its own criteria. A detailed explanation of the GoBali grading system comes with your transcript.

Re-sit exams

There are no re-sit exams at Ngurah Rai University for the GoBali program.

Ngurah Rai University, International Office, Denpasar, Bali, Indonesia.

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