

Program Specification

Undergraduate Architecture



Department of Architecture and Planning Faculty of Engineering Universitas Gadjah Mada

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BASIC DATA OF THE PROGRAM

Program Title

Undergraduate Architecture Study-Program

Awarding Body/Institution

Universitas Gadjah Mada. The Universitas Gadjah Mada is a state university under the Ministry of Higher Education.

Teaching Institution responsible for programme

Department of Architecture and Planning, Faculty of Engineering, Universitas Gadjah Mada.

Accreditation by Professional/Statutory Body

The program is accredited by BAN PT-DIKTI every five years. ASP has successfully maintained top classification “A”, in the year of 2003, 2009, and 2013.

Final Award/Qualification

Graduates from the program will be awarded the qualification of Sarjana Teknik (Bachelor of Engineering)/ S.T (B.Eng).

Entry Requirements

1. Have passed the primary and secondary education
2. Have passed the selection test (see each year option at <http://um.ugm.ac.id>)
3. Do not have disability(ies) of blindness, deaf, mute, and color blindness (exception for partial color blindness)



MISSION “to celebrate architecture for developing innovative young architects through interdisciplinary perspectives”

VISION “a center of excellence in architecture-for-humanity in Asia”

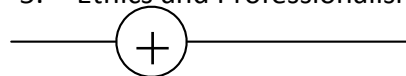
STRATEGY

- 1) Responding cultural and natural diversity,
- 2) Resolving people vulnerability and enforcing local resilience,
- 3) Incubating innovative design excellence,
- 4) Promoting passionate design, and
- 5) Nurturing interdisciplinary perspectives.

EXPECTED LEARNING OUTCOMES

The Expected Learning Outcomes are described in 51 competencies. They are classified into 16 Main Competencies, 22 Supportive Competencies, and 13 Unique Competencies. To simply understand the scope of competencies must be achieved by the graduates, all the 51 competencies are grouped into 5 + 1 big area of architectural education at ASP:

1. Design Abilities
2. Architecture-Related Issues
3. Building Technologies
4. Supporting Skills
5. Ethics and Professionalisms



Comprehensive Competencies

2011 CURRICULUM MAP

GROUP OF ELO	Introduction to Arch.	DESIGN ABILITIES								ARCHITECTURE-RELATED ISSUES				BUILDING TECHNOLOGIES								SUPPORT. SKILLS			ETHICS, PROFESSIONALISM, &							COMPREHENSIVE										
		Basic Aesthetics	Arch. Aesthetics	Arch. Des. Progr. Method	Design Transf. Method	Arch Theory 01	Arch Theory 02	Arch Criticism	Mathematics (for Arch.)	History of Indonesian Arch.	History of Western-Asian Arch.	Site Analysis	Building Physics	Urban Design Basics	Housing Design Basics	Structure & Const. 01	Structure & Const. 02	Structure & Const. 03	Structure & Const. 04	Structure & Const. 05	Structure & Const. 06	Material Technology	(Building) Utility	Structural Analysis	Art Basics	English	Digital Architecture	Pancasila	Civics	Religion	Community Services	Project Management Basic	Ethics and Building Regulation	ADS 1	ADS 2	ADS 3	ADS 4	ADS 5	ADS Thematic 1	ADS Thematic 2	Graduate Theses	Graduate Project
DESIGN ABILITIES	KU-01																																									
	KU-02																																									
	KU-03																																									
	KU-04																																									
	KU-05																																									
	KU-08																																									
	KU-09																																									
	KU-16																																									
ARCH.-RELATED ISSUES	KP-01																																									
	KP-03																																									
	KP-07																																									
	KP-08																																									
	KP-09																																									
	KP-10																																									
	KP-11																																									
	KP-12																																									
BUILDING TECHS.	KU-06																																									
	KU-07																																									
	KP-13																																									
	KP-15																																									
	KL-07																																									
	KU-10																																									
SUPPORTING SKILLS	KU-11																																									
	KU-12																																									
	KU-14																																									
	KP-06																																									
	KP-14																																									
	KP-22																																									
	KL-01																																									
	KL-02																																									
	KL-03																																									
	KL-04																																									
ETHICS, PROFESSIONALISM, ENTREPRENEUR.	KL-05																																									
	KL-06																																									
	KU-13																																									
	KU-15																																									
	KU-16																																									
	KP-05																																									
	KP-17																																									
	KP-18																																									
EMBEDDED COMPETENCIES	KL-08																																									
	KL-10																																									
	KL-11																																									

Details Of ELO in Each Group Of Competencies

DESIGN ABILITIES	KU-01	Ability to imagine, think creatively, innovate and become a pioneer in the design
	KU-02	Ability to gather information, formulate problems, and analyze (Bachelor Competence)
	KU-03	Ability to think three-dimensionally in design exploration.
	KU-04	Ability to reconcile various factors, integrate knowledge and apply skills in the creation of a design solution
	KU-05	Awareness of relevant legislation, technical guidelines and standards for the planning, design, construction, health, safety and the use of the built environment
	KU-08	Knowledge of the theory and design methods
	KU-09	Understand the procedure and the design process
	KP-02	Ability to design that applies the knowledge of art and its influence on the quality of architectural design
	KP-04	Awareness of the links between architecture and other creative disciplines
	KP-16	Knowledge of design precedents and architectural criticism

ARCH.-RELATED ISSUES	KP-01	Ability to act with knowledge of historical and cultural precedents in local and world architecture
	KP-03	Understanding the issues of cultural heritage in the built environment
	KP-07	Understanding the social context where the built environment exist, ergonomic and space requirements and issues of equity and access
	KP-08	Ability to act with knowledge of natural systems and built environments
	KP-09	Understanding the issues of conservation and waste management
	KP-10	Understanding the recycling of materials, issues of ecological sustainability, environmental impacts, design for reduced use of energy, passive systems, and energy management

	KP-11	Awareness of the history and practice of landscape architecture, urban design, regional and national planning, and their relationship to local and global demography and resources
	KP-12	Awareness about management of natural systems into the risk of natural disasters

BUILDING TECHS.	KU-06	Technical knowledge of structure, materials, and construction
	KU-07	Understanding the process of technical design and the integration of structure, construction technologies, and system utilities to become effective functional unity
	KP-13	Understanding utility systems, systems of transportation, communication, maintenance and safety of the building
	KP-15	Ability to act with innovative technical competence in the use of building techniques and the understanding of their evolution
	KL-07	Understand and able to prepare Budget Plan and Bill of Quantities (RKS)

SUPPORTING SKILLS	KU-10	Ability to act and to communicate ideas through collaboration, speaking, numeracy, writing, drawing, modeling and evaluation
	KU-11	The ability to use manual, electronic, graphic and the model making capabilities to explore, develop, define and communicate design proposals
	KU-12	Ability to develop scientific writings
	KU-14	Understanding academic ethics
	KP-06	Ability to compose TOR for projects through the definition of user needs, both the community and clients, and to research and define contextual and functional requirements for different types of built environment
	KP-14	Awareness of the role of technical documentation and specifications in the

		implementation of the design and construction process, cost planning and control
	KP-22	Understanding the systems of evaluation, that use manual and / or electronic method for assessing the performance of the built environment
	KL-01	Able to do design research
	KL-02	Master the skill of designing based on scientific or quasi-scientific studies
	KL-03	Understand and apply basic research methods of architecture, including research design, data analysis, and interpretation
	KL-04	Able to create a design study of the complete field of architecture
	KL-05	Able to do publicity work through exhibitions, web, or seminar
	KL-06	Understanding the architectural drawing system to image detail and is capable of using design software and the supporters

ETHICS, PROFESSIONALISM, ENTREPRENEUR.	KU-13	Understanding the professional ethics and code of ethics as applied in the practice of architecture and the legal responsibility of the architect where the architect registered or practicing
	KU-15	Understanding religious values in personal lives and society
	KU-16	Understanding the role as a citizen, and are able to use national and international languages
	KP-05	Ability to act with knowledge about society, and to work with clients and users that represent society's needs
	KP-17	Ability to act with knowledge of professional context, business, finance and law
	KP-18	Ability to understand different forms of procurement of architectural services
	KP-19	Awareness of construction and development industry work, financial dynamics, real estate investment, and facilities management
	KP-20	Awareness of the potential role of architects in conventional activities and new fields of activity, as well as in the international context

	KP-21	Understanding the business principles and their application to the development of the built environment, project management and professional consultants function
	KL-09	Having entrepreneurship skills
	KL-12	Understanding about moral values, academic values, and citizenship values
	KL-13	Ability to act to favor the interests of the society

EMBEDDED COMPETENCIES	KL-08	Possession of good soft skills (leadership, teamwork, integrity, discipline, conflict management, to network)
	KL-10	Fast learners to update the science and technology
	KL-11	Have a spirit of sharing and learning throughout life (life-long learning)

EXPECTED LEARNING OUTCOMES (List based on Knowledge, Skill and Attitude)

Following are the stated expected learning outcomes:

The program provides opportunities for the participants to develop and demonstrate (a) subject knowledge and understanding, (b) Intellectual skills and subject specific practical skills, and (c) transferable skills/attitude.

Please note that “KU” and “KP” mean Generic Competencies and Specialized Competencies (formulated by association of Indonesian architecture schools APTARI (*Asosiasi Perguruan Tinggi Arsitektur Indonesia*)), and KL means Unique Competencies (formulated by the Study Program as additional flagship quality)

A. SUBJECT **KNOWLEDGE** AND UNDERSTANDING

At the end of the program the student will be able to:

1. Technical knowledge of structure, materials, and construction. (KU6)
2. Understanding the process of technical design and the integration of structure, construction technologies, and system utilities to become effective functional unity (KU7)
3. Knowledge of the theory and design methods (KU8)
4. Understand the procedure and the design process (KU9)
5. Understanding the issues of cultural heritage in the built environment (KP3)
6. Awareness of the links between architecture and other creative disciplines. (KP4)
7. Understanding the issues of conservation and waste management. (KP9)
8. Understanding the recycling of materials, issues of ecological sustainability, environmental impact, design for reduced use of energy, passive systems, and energy management. (KP10)
9. Awareness of the history and practice of landscape architecture, urban design, regional and national planning, and their relationship to local and global demography and resources. (KP11)
10. Awareness of the management of natural systems at the risk of natural disasters. (KP12)
11. Understanding utility systems, systems of transportation, communication, maintenance and safety of the building (KP13)
12. Awareness of the role of technical documentation and specifications in the implementation of the design and construction process, cost planning and control (KP14)
13. Knowledge of design precedents and architectural criticism (KP16)
14. Ability to understand different forms of procurement of architectural services (KP18)
15. Awareness of construction and development industry work, financial dynamics, real estate investment, and facilities management (KP19)
16. Awareness of the potential role of architects in conventional activities and new fields of activity, as well as in the international context (KP20)
17. Understanding the business principles and their application to the development of the built environment, project management and professional consultants function (KP21)
18. Understanding the systems of evaluation, that uses manual and/or electronic method for assessing the performance of the built environment. (KP22)

19. Understanding the architectural drawing system to image detail and is capable of using design software and the supporters (KL6)

B. INTELLECTUAL SKILLS AND SUBJECT SPECIFIC PRACTICAL SKILLS

At the end of the program the student will be able to:

1. Ability to imagine and to think creatively, to innovate and to become a pioneer in the design (KU1)
2. Ability to gather information, to formulate problems, and to analyze (undergraduate competency) (KU2)
3. Ability to think three-dimensional in design exploration (KU3)
4. Ability to reconcile various factors, integrate knowledge and apply skills in the creation of a design solution (KU4)
5. Awareness of relevant legislation, technical guidelines and standards for the planning, design, construction, health, safety and the use of the built environment (KU5)
6. Ability to act and to communicate ideas through collaboration, speaking, numeracy, writing, drawing, modeling and evaluation (KU10)
7. The ability to use manual, electronic, graphic and the model making capabilities to explore, develop, define and communicate design proposals (KU11)
8. Able to develop scientific writings (KU12)
9. Ability to act with knowledge of historical and cultural precedents in local and world architecture. (KP1)
10. Ability to design that applies the knowledge of art and its influence on the quality of architectural design (KP2)
11. Ability to act with knowledge of society, and to work with clients and users that represent society's needs (KP5)
12. Ability to prepare TOR project through the definition of community and clients needs, and to research and define contextual and functional requirements for different types of built environment. (KP6)
13. Ability to act with knowledge of natural systems and built environments (KP8)

14. Ability to act with innovative technical competence in the use of building techniques and the understanding of their evolution (KP15)
15. Ability to act with knowledge of professional context, business, finance and law. (KP17)
16. Able to do design research (KL1)
17. Master the skill of designing based on scientific or quasi-scientific studies. (KL2)
18. Understand and apply basic research methods of architecture, including research design, data analysis, and interpretation (KL3)
19. Able to create a design study of the complete field of architecture KL4
20. Able to do publicity work through exhibitions, web, or seminar KL5
21. Understand and able to prepare RAB and RKS (KL7)

C. TRANSFERABLE SKILLS/**ATTITUDE**

At the end of the program the student will be able to:

1. Understanding the professional ethics and code of ethics as applied in the practice of architecture and the legal responsibility of the architect where the architect registered or practicing (KU13)
2. Understanding academic ethics (KU14)
3. Understanding religious values in personal lives and society (KU15)
4. Understanding the role as a citizen, and are able to use national and international languages (KU16)
5. Understanding the social context where the built environment exist, ergonomic and space requirements and issues of equity and access (KP7)
6. Have a good soft skills (leadership, teamwork, integrity, discipline, conflict management, to network) (KL8)
7. Having entrepreneurship (KL9)
8. Fast learners to update the science and technology (KL10)
9. Have a spirit of sharing and learning throughout life (life-long learning) (KL11)
10. Understand the values of character, knowledge, and the life of the nation (KL12)
11. Able to act to favor the interests of the society (KL13)

REFERENCE POINTS FOR PROGRAM OUTCOMES

Quality Assurance Agency (QAA) for Higher Education in Architecture and UIA (the International Union of Architects) standards are used as a reference for the curriculum competency formulation. QAA academic standards requires competence levels (1) know and understand (knowledge), (2) understand and analyze the (understanding), and (3) practice ability (skill) which includes the following areas:

1. Design

Capabilities in the field of design specifics:

- a) the ability to elaborate concepts, reviewing and developing the design of three-dimensional objects and spaces
- b) architectural designing capabilities by integrating social requirements, aesthetics and engineering
- c) the ability to transform the architectural design at certain land in the context of landscape and wider urban planning
- d) the ability to assess, formulate and respond to the program that is appropriate for
- e) the context and specific situation
- f) ability to work in an environment of inter-disciplines and collaboration with other
- g) disciplines

2. Cultural Context

Capabilities in the field of cultural context specifics:

- a) ability to give a decision on the consideration of spatial quality, aesthetic, technical and social aspects of a design within the scope and scale of the wider environment
- b) ability to reflect on the idea of a design

3. Environments and Technologies

Capabilities in the field of environments and technologies specifics:

- a) the ability to produce a design that accommodates linkage structures, building materials and construction elements
- b) the ability to produce a design that accommodates the climate relevance, utility, and energy supply
- c) ability to elaborate the findings that are informed and reflected in the development of sustainable design

4. Communication

Capabilities in the field of communication specifics:

- a) the ability to understand the conversion of architectural representation
- b) the ability to use a variety of visual techniques, writing, and verbal to communicate design and architectural ideas
- c) ability to select and use a variety of media to communicate the design in the particular segment group
- d) ability to select and use software applications and multimedia-based design for design
- e) the ability to listen and engage in communication

5. Professional Studies

Capabilities in the field of professional studies specifics:

- a) the ability to collaborate in interdisciplinary environment
- b) ability to respond to public interest and social and ethical concern

Whereas the standard of UIA/the International Union of Architects (international organization that embodies the national institutions in the field of professional architects and has an interest and responsibility for the quality of architectural education in the world), declared that that architectural

education includes the following fundamental objectives (**Charter-UNESCO/UIA for Architectural Education**):

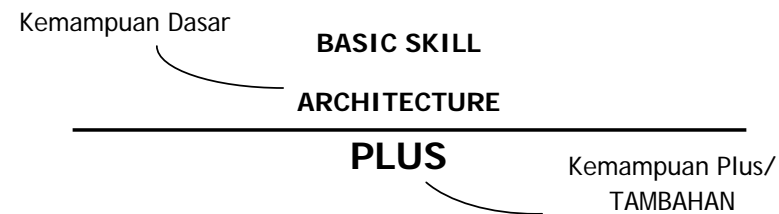
- 1) Ability to create architectural designs that satisfy both aesthetic and technical requirements.
- 2) Adequate knowledge of the history and theories of architecture and the related arts, technologies and human sciences.
- 3) Knowledge of the fine arts as an influence on the quality of architectural design.
- 4) Adequate knowledge of urban design, planning and the skills involved in the planning process.
- 5) Understanding of the relationship between people and buildings, and between buildings and their environment, and of the need to relate buildings and the spaces between them to human needs and scale.
- 6) Understanding of the profession of architecture and the role of the architect in society, in particular in preparing briefs that take account of social factors.
- 7) Understanding of the methods of investigation and preparation of the brief for a design project.
- 8) Understanding of the structural design, construction and engineering problems associated with building design.
- 9) Adequate knowledge of physical problems and technologies and of the function of buildings so as to provide them with internal conditions of comfort and protection against the climate.
- 10) Design skills necessary to meet building users' requirements within the constraints imposed by cost factors and building regulations.
- 11) Adequate knowledge of the industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.
- 12) Awareness of responsibilities toward human, social, cultural, urban, architectural, and environmental values, as well as architectural heritage.
- 13) Adequate knowledge of the means of achieving ecologically responsible design and environmental conservation and rehabilitation.
- 14) Development of a creative competence in building techniques, founded on a comprehensive understanding of the disciplines and construction methods related to architecture.
- 15) Adequate knowledge of project financing, project management, cost control and methods of project delivery.

- 16) Training in research techniques as an inherent part of architectural learning, for both students and teachers.

Based on the vision and mission of the Architecture study program and references competency of QAA and the UIA, formulated the goal of developing new curriculum is to educate and train students to be ready to develop into a professional architect with the competence of graduates who master the basic skills of design architecture (basic skills architecture design), and has the additional capability to respond to the issues: "humanity, technology, architectural theory and the development of leading edge architectural style, sustainability-based architecture" and others. With reference to the competency standards of UIA and QAA, Architecture study program graduates are expected to be able to compete at international level. To achieve the competency of graduates (ready to develop into a professional architect), 2008 and 2011 Curriculum gave a larger portion (35%) in terms of the practice of designing than the 2001 curriculum (25%).

PROGRAM OUTCOMES

Main concept of 2011 Curriculum (Basic Skill + Plus) can be described as follows:



Development of basic skills of architecture design will be the core course of Architectural Basic Design Competence. Some translation of basic competence can be seen from the student ability to:

1. **Formulating Design Concept**, the ability to translate goals, desires, aspirations and expectations of clients and users into the "idea / big idea architectural design" (design concept) worthily based on the sources of textual references.

2. **Develop a Viable and Functional Form**, the ability to develop great design architecture ideas into the forms of design space, spaces, buildings, and or region and its components with emphasis on the point of usefulness and Architectural aesthetics creatively based sources of textual references.
3. **Determine the Use of Relevant**, the ability to develop forms of design space, spaces, buildings, and or region and its components with the support / structure and construction technology support, materials, and relevant / according utilities sourced in textual references. (Buildable)
4. **Presenting the Idea and the Design**, the ability to present the results of the architectural design verbally, written, and graphics through the utilization of techniques and appropriate communication behavior. (Marketable, Promotable, Communication Skill)
5. **Behave professionally**, the ability to take full responsibility individually and collectively to the process and the results of the created architectural design.

Plus Skills Development directed to the sharpening and Basic Skill Design material's expansion. In detail it is described as follows:

1. **Upgrading Practice Skills** (improving practical skills)
2. **Expansion and Refine Knowledge** (understanding more knowledge)
3. **Refine Particular Interest** (more focused issues / specific concern)

Plus Skills that will be given to students will be discussed in the Teaching Staff Potential and Electives Courses. Change of Semester Credit percentage of elective courses from the old curriculum -8 credits (4 courses) to 16 credits (8 elective courses)- showed significant concrete step in support of Basic Skill Design PLUS Program that defined within two competences, "Basic Competence" and "Graduates Competence". Basic Competence targeted at both compulsory and elective courses from 1st semester to 5th. To achieve the Graduates Competence (the purpose of the program) the basic competence are equipped with additional capabilities gained in 6th semester and 7th. In the 8th semester students are expected to be able to reach the target of Graduates Competence that can be seen from the final project.

TEACHING AND LEARNING

ASP naturally uses Student-Centered Learning (SCL) Paradigm. Major SCL Methods used: Project Based Learning, combined with Problem Based Learning, Case based Learning, Experiential Learning, Self-directed Learning, etc.

There are five culture of ASP Teaching-and-Learning Strategies identified: (1) Studio TL Strategy, (2) Courses TL Strategy, (3) Internship TL Strategy, (4) Graduation Thesis-Project TL Strategy. The Studio uses project based learning in for the TL method. Prerequisite was applied in the Architecture Design Studio 1 to Architecture Design Studio 5. Every compulsory studio was required to be taken in order. Afterward, Thematic Architecture Studio (TAS 1 & 2) could be taken not subsequently.

ASSESSMENT STRATEGIES

Curriculum Objective Coverage in Assessment Method

Group of Compt		Design Ability	Arch-related Issues	Building Tech.	Supporting Skills	Ethics and Prof.	Note
Process Tests	Studio	PBL: Project Displays					Comprehensive Compt.
	Courses	F, S	F, S	F, S	F, S	F, S	Non Comprehensive Compt.
	Internship	Report Review					Comprehensive Compt.
Exit Tests	G. thesis	PBL: Thesis Defense/Viva voce					Comprehensive Compt
	G. project	PBL: Design Review (<i>Gelar Karya</i>), Project Display					

Grading and Scoring					
A	4.00	B-	2.75	D	1.00
A-	3.75	C+	2.25	E	0.00
B+	3.25	C	2.00		
B	3.00	C-	1.75		

Besides finishing 144 credits (SKS), student who wish to graduate should also fulfill these additional requirement of (1) cumulative GPA >(more than) 2, (2) No E grade, (3) minimum C grade for Pancasila, Religion, Citizenship Studies and Community Service, (4) D grade not exceed more than 25% of total 144 credits, (5) has finish graduation thesis and graduation project, as well as has passed the defenses, (6) Proof of attendance in two of Engineering Ethics session provided by Faculty of Engineering.

Graduates are given predicate as listed below:

- Satisfactory for CGPA 2,00-2,75
- Very Satisfactory for CGPA 2,76-3,50
- *Cum Laude* for CGPA more than 3,51; study length maximum of 10 semesters (less than 11 semesters)

PROGRAM STRUCTURE

Description :

PDC = Personality Development Course

SSC = Scientific and Skill Courses

EWC = Expertise Work Courses

C = Course

P = Practicum (the practice of designing)

Semester	Course Name	Course Code	Course Group	Credit	
				C	P
1	Pancasila	UNU 1100	PDC	2	0
	Introduction to Architecture	TKA 1111	SSC	2	0
	Basic Aesthetics	TKA 1112	EWC	2	0
	Architecture Design Studio 1	TKA 1101	EWC	0	6
	Structure and Construction 1	TKA 1113	EWC	2	1
	Citizenship	UNU 300	PDC	2	0
	Mathematics	TKA 1114	SSC	2	0
Total Credits				19	

Semester	Course Name	Course Code	Course Group	Credit	
				C	P
2	History of the Archipelago Architecture	TKA 1211	PDC	2	0
	Site Analysis	TKA 1212	SSC	3	0
	Architecture Aesthetics	TKA 1213	EWC	2	0
	Architecture Design Studio 2	TKA 1202	EWC	2	0
	Structure and Construction 2	TKA 1214	EWC	0	6
	Mechanical Engineering	TKA 1215	EWC	2	1
	English	TKA 1216	SSC	2	0
Total Credits				20	

Semester	Course Name	Course Code	Course Group	Credit	
				C	P
3	History of Western and Eastern Architecture	TKA 2111	SSC	2	0
	Architectural Design Programming Method	TKA 2112	SSC	1	0
	Digital Architecture	TKA 2113	EWC	3	0
	Architecture Design Studio 3	TKA 2103	EWC	0	6
	Structure and Construction 3	TKA 2114	EWC	2	1
	Material Technology	TKA 2115	EWC	3	0
	Building Physics	TKA 2116	SSC	3	0
Total Credits				21	

Description :

PDC = Personality Development Course

SSC = Scientific and Skill Courses

EWC = Expertise Work Courses

C = Course

P = Practicum (the practice of designing)

Semester	Course Name	Course Code	Course Group	Credit	
				C	P
4	Design Transformation Method	TKA 2211	PDC	2	0
	Architectural Theory 1	TKA 2212	SSC	2	0
	Architecture Design Studio 4	TKA 2204	EWC	0	6
	Structure and Construction 4	TKA 2213	EWC	2	0
	Utility	TKA 2214	EWC	2	0
	Basics of Project Management	TKA 2215	EWC	2	0
	Elective Course 1.....	TKA 222.	SSC	2	0
	Elective Course 2.....	TKA 222.	SSC	2	0
Total Credits				20	
Semester	Course Name	Course Code	Course	Credit	

			Group	C	P
5	Introduction to Urban Planning	TKA 3111	SSC	2	0
	Ethics and Development Institution	TKA 3112	EWC	2	0
	Architecture Design Studio 5	TKA 3105	EWC	0	6
	Structure and Construction 5	TKA 3113	EWC	2	0
	Religion	UNU 410	EWC	0	3
	Elective Course 3....	TKA 222.	SSC	2	0
	Elective Course 4....	TKA 222.	SSC	2	0
Total Credits				19	

Semester	Course Name	Course Code	Course Group	Credit	
				C	P
6	Housing Design Basics	TKA 3211	SSC	2	0
	Architecture Theory 2	TKA 3212	EWC	2	0
	Architecture Thematic Design Studio 1	TKA 3206	EWC	0	6
	Structure and Construction 6	TKA 3213	EWC	2	0
	Practical Work Course	TKA 3214	PDC	2	0
	Elective Course 5....	TKA 322.	SSC	2	0
	Elective Course 6....	TKA 322.	SSC	2	0
				18	
Semester	Course Name	Course Code	Course Group	Credit	
				C	P

7	Architecture Criticism	TKA 4111	EWC	2	0
	Pre Final Project	TKA 4112	EWC	4	0
	Architecture Thematic Design Studio 2	TKA 4107	SSC	0	6
	Elective Course 7....	TKA 322.	SSC	2	0
	Elective Course 8....	TKA 322.	SSC	2	0
				16	
Semester	Course Name	Course Code	Course Group	Credit	
				C	P
8	Final Project	TKA 4211	EWC	0	8
	Community Service Program	TKA 4212	PDC	0	3
Total Credits				11	
TOTAL CREDITS ALL SEMESTER				144	

Description :

PDC = Personality Development Course



SSC = Scientific and Skill Courses

EWC = Expertise Work Courses

C = Course

P = Practicum (the practice of designing)

(EIGHT SEMESTER) COURSE PROGRAM

1		2		3		4		5		6		7		8	
First Year				Second Year				Third Year				Fourth Year			
Pancasila						Elective		Elective		Elective		Elective			
UNU 1100	2					TKA 2.... 2/0		TKA 2.... 2/0		TKA 2.... 2/0		TKA 2.... 2/0			
Kewarganegaraan		History of Nusantara Architecture		History of Western-Eastern Architecture		Elective		Elective		Elective		Elective			
UNU 300	2	TKA 1221	3/0	TKA 2121	2/0	TKA 2.... 2/0		TKA 2.... 2/0		TKA 2.... 2/0		TKA 2.... 2/0			
Introduction to Architecture		Site Analysis		Design Programming Methods		Design Transformation Methods		Basic Urban Design		Basic Settlement/Housing Design		Architecture Critics			
TKA 1121	2/0	TKA 1232	2/0	TKA 2131	2/0	TKA 2221 2/0		TKA 3121 2/0		TKA 3221 2/0		TKA 4133 2/0			
Basic Aesthetics		Architecture Aesthetics		Digital Architecture		Architecture Theory1		Ethics and Building Regulation		Architecture Theory 2		Graduation Theses			
TKA 1131	2/0	TKA 1231	2/0	TKA 2122	1/1	TKA 3131 2/0		TKA 2241 2/0		TKA 3222 2/0		TKA 4132 4/0			
Architecture Design Studio 1		Architecture Design Studi 2		Architecture Design Studi 3		Architecture Design Studi 4		Architecture Design Studi 5		Architecture Design Studio Thematic 1		Architecture Design Studio Thematic 2		Graduation Project	
TKA 1132	0/6	TKA 1233	0/6	TKA 2132	0/6	TKA 2231 0/6		TKA 3132 0/6		TKA 3231 0/6		TKA 4131 0/6		TKA 4231 0/8	
SK1		SK2		SK3		SK4		SK5		SK6					
TKA 1133	2/1	TKA 1234	2/1	TKA 2133	2/1	TKA 2232 2/0		TKA 3133 2/0		TKA 3232 2/0					
		Structural Analysis		Material Technology		Building Utility				Internship				Community Service	
		TKA 1222	2/0	TKA 2123	3/0	TKA 2223 2/0				TKA 3134 0/3				TKA 4251 3	
Mathematics		English		Building Physics		Basic Project Management		Religion							
TKA 1122	2	TKA 1251	2	TKA 2124	3/0	TKA 2222 2/0		UNU 410 2							
Total Credit (SKS)	19	20		21		20		18		19		16		11	
Legend  prerequisite (min D)  should be taken before															
										Note Graduation Project can be taken after passing in all courses (except Community Service)					

NOTE: