

Architecture

Introduction

The Architecture study program at BINUS UNIVERSITY has taken the steps to design the curriculum in order to anticipate the developments in information technology in the global era and market demand.

The subjects of the core curriculum are based on competences which have to be attained, these are: Personal Development, Science and Skills, Work Expertise, Work Behavior, and Involvement in Society. The minimum credits that have to be taken are 146 credits. This curriculum will allow the opportunity to increase the knowledge and technology of architecture, provide knowledge for those who want to be an entrepreneur in architectural work, and to pursue professional education or further studies in master program (S2) and doctorate program (S3).

The Architecture study program focus on producing graduates of architecture who are ready to work, innovative, completed with a concept of environmental care and strong cultural values. Mastery of information technology becomes a value-added as a graduate of Architecture of BINUS UNIVERSITY.

Vision

To become a world class architecture department in continuous pursuit of innovation and enterprise base on IT.

Mission

The mission of Architecture Department is to contribute to the global community through the provision of world-class education by:

1. Educating students in ICT based creative and innovative design skills that help to improve the quality of life.
2. Educating students through cases on building environment, highlighting professional services and entrepreneurial skills.
3. Conducting research and improving student's research experience in sustainable building environment and local values.

Program Objective

The objectives of the program are:

1. To provide students with the ability to produce an integrated building environment design using creative, innovative and ICT based solutions that help to improve the quality of life.
2. To provide research that focuses on sustainable building environment and local values.
3. To prepare students with a knowledge of the professional ethics of an Architectural Entrepreneur.

Graduate Competency

At the end of the program, the graduate will be able to :

1. Analyze the Human Aspects in order to design feasible architectural design.
2. Able to adopt Professional Ethics.
3. Able to arrange Building Systems.
4. Able to Integrate Environmental Systems and Local Values with Architectural Design.
5. Produce an Architectural Design project.
6. Provide integrated support needed for an Architectural Design project.

Prospective Career of the Graduates

The graduate of the architecture program will have covered subjects such as Planning, Programming and Designing, Structure and Construction, Project Management, Property Management, Interior Design and mastery of Information Technology.

The graduate of Architecture has the choice of a range of professions including:

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|---|---|
| 1. Consultant | : Architect |
| 2. Builder | : Engineer |
| 3. Construction Management | : Construction Management |
| 4. Banking | : Credit Analyst (Appraisal) |
| 5. Property | : Building Manager, Marketing, Real Estate Manager. |
| 6. Interior | : Interior Designer |
| 7. Developer | : Planner |
| 8. Information Technology | : 3D Animator |
| 9. Research | : Researcher |
| 10. Media (Printed or Electronic media) | : Architecture Journalist, Writer, Editor. |
| 11. Independent Business | : Freelance Architect |
| 12. Education | : Lecturer and Instructor |

Curriculum

Famous for its reputation for Information Technology, BINUS UNIVERSITY has developed its expertise in the field of architecture which should not be separated from computing either in design processing or in building operations. In line with the development of information technology in architecture, some companies require employees to have mastered information technology. An architect has to master either architecture design or information technology. Based on these qualifications, the architecture study program has a slightly different approach to the curriculum where information technology is treated as a core subject and therefore has to be mastered by each graduate. The curriculum also have enrichment program in order to give internship and industrial experience for each graduate. The curriculum is based on both the National Curriculum and Architecture Study Program Association. Then to absorb the requirement of housing facility and sustainable development, the Architecture Study Program at BINUS UNIVERSITY also adds "sustainable human settlement" as a part of its curriculum. All of the curriculum are supported by MCL (Multi Channel Learning) system, so student can easily learn, systematically, variant, and integrated with BINUS Maya.

Elective Group

The objective of this group is to provide the students with the knowledge and skills required by business and industry. The materials for this group will always be adjusted in accordance with the latest market demands, so that graduates are prepared to participate in and face the competition of the job market.

Concentration Subject (Stream)

The Concentration subjects (Stream) provide:

1. Digital Architecture

The integration between architecture and information technology enables students to produce creative and innovative design as well as design which has uniqueness and realistic visualization.

2. Interior Architecture

The integration between architecture and interior enables students to produce design based on behavior and character of user, completed with information technology, the visualization of the design will appear more creative and realistic.

3. Real Estate

The integration between architecture and touch of the economic value enables students to produce creative and innovative design. The comprehensive teaching learning process enables students to understand various market demands.

All subjects of Architecture are distributed in 8 semesters. The concentration subjects (stream) are opened in the 4th Semester to 8th Semester.

Course Structure

Sem	Code	Course Name	SCU	Total	
1	CHAR6013	Character Building: Pancasila	2	20	
	ARCH6001	Introduction to Architecture	2		
	ARCH6089	Aesthetics	2		
	ARCH6015	Architectural Communication Technique	4		
	ARCH6018	Building Technology I	4		
	ARCH6042	Architectural Design I	4		
	English University Courses I				
	ENGL6128	English in Focus	2		
	ENGL6130	English for Business Presentation	2		
2	CHAR6014	Character Building: Kewarganegaraan	2	21	
	ARCH6019	Building Technology II	4		
	ARCH6041	Design Methods	2		
	ARCH6043	Architectural Design II	4		
	ARCH6048	Traditional Architecture	2		
	ARCH6086	Architectural Design Computing I	4		
	LANG6061	Indonesian	1		
	English University Courses II				
	ENGL6129	English Savvy	2		
ENGL6131	English for Written Business Communication	2			
3	CHAR6015	Character Building: Agama	2	24	
	ARCH6020	Building Technology III	4		
	ARCH6044	Architectural Design III	4		
	ARCH6047	Behavior in Architecture	2		
	ARCH6049	Modern Architecture	2		
	ENTR6003	Entrepreneurship I	2		
	ARCH6017	Site Planning	4		
	ARCH6087	Architectural Design Computing II	4		

Sem	Code	Course Name	SCU	Total	
4	ARCH6050	Tropical Architecture	2	22	
	ARCH6052	Utility	2		
	ARCH6004	City and Settlement	2		
	ARCH6021	Building Technology IV	4		
	ARCH6045	Architectural Design IV	6		
	ARCH6096	Architectural Research Methods	2		
	Stream : Real Estate				
	ARCH6009	Introduction to Real Estate	2		
	ARCH6071	Property Assessment I*	2		
	Stream : Digital Architecture				
	DSGN6010	Architectural Photography*	2		
	ARCH6090	Architectural Geometry Design	2		
	Stream : Interior Architecture				
	ARCH6054	Interior Design Principles	2		
ARCH6072	Building Material Knowledge*	2			
5	ENTR6004	Entrepreneurship II	2	20	
	ARCH6003	Building Physics	2		
	ARCH6076	Project Management	2		
	ARCH6006	Seminar	2		
	ARCH6046	Architectural Design V	6		
	ARCH6061	Sustainable Architecture	2		
	Stream : Real Estate				
	ARCH6051	Urban Architecture	2		
	ARCH6094	Property Assessment II*	2		
	Stream : Digital Architecture				
	ARCH6103	Architectural Design Computing III*	4		
	Stream : Interior Architecture				
	ARCH6095	Acoustics and Lighting Design*	2		
ARCH6067	Interior Installation	2			
6	Enrichment Program I		15	15	
7	Enrichment Program II		16	16	
8	ARCH6039	Final Project	8	8	
			TOTAL CREDIT 146 SCU		

*) Entrepreneurship embedded

English University Courses:

-) For 1st Semester: English University Courses I, student with score Binus University English Proficiency Test less than 500 will take English in Focus, and student with score test greater than or equal to 500 will take English for Business Presentation
-) For 2nd Semester: English University Courses II, student with score Binus University English Proficiency Test less than 500 will take English Savvy, and student with score test greater than or equal to 500 will take English for Written Business Communication
-) Students should pass English Savvy with a minimum Grade is C

Enrichment Program I (6th Semester) & Enrichment Program II (7th Semester):

-) Student will take one of enrichment program tracks (off campus).

Enrichment Track Scheme

Track	Semester 6						Semester 7					
	I	RS	ENTR	CD	SA	*etc	I	RS	ENTR	CD	SA	*etc
1	v						v					
2	v							v				
3	v									v		
4	v										v	
5	v								v			

Notes:

- I : Internship
- RS : Research
- ENTR : Entrepreneurship
- CD : Community Development
- SA : Study Abroad
- *etc : Department specific needs

Notes:

Student can choose one of the available tracks

Enrichment Internship Track

Code	Course Name	SCU	Total
Enrichment Program I			15
ARCH6091	Industry Experience	8	
ARCH6092	Integrated Architectural Design	4	
ARCH6085	Project Programme	3	16
Enrichment Program II			
ARCH6104	Internship	8	
ARCH6100	Advanced Integrated Architectural Design	4	
ARCH6093	Advanced Project Programme	4	

Enrichment Entrepreneurship Track

Code	Course Name	SCU	Total
ENTR6290	Business Start Up	8	16
ENTR6197	Architectural Business Model & Validation	2	
ENTR6198	Launching New Venture Architectural Entrepreneurship	2	
ENTR6199	EES in New Architectural Business	4	

Enrichment Research Track

Code	Course Name	SCU	Total
RSCH6222	Research Experience	8	16
RSCH6145	Architectural Scientific Writing	4	
RSCH6146	Global EES in Architecture	4	

Enrichment Community Development Track

Code	Course Name	SCU	Total
CMDV6122	Community Outreach Project Implementation	8	16
CMDV6065	Community-Based Architecture	4	
CMDV6066	Employability and Entrepreneurial Skills in Architecture Community	4	

Enrichment Study Abroad Track*

Code	Course Name	SCU	Total
GLOB6005	Elective Course for Study Abroad 1	4	16
GLOB6006	Elective Course for Study Abroad 2	4	
GLOB6007	Elective Course for Study Abroad 3	4	
GLOB6008	Elective Course for Study Abroad 4	4	
GLOB6009	Elective Course for Study Abroad 5	2	
GLOB6010	Elective Course for Study Abroad 6	2	
GLOB6011	Elective Course for Study Abroad 7	2	
GLOB6012	Elective Course for Study Abroad 8	2	
GLOB6013	Elective Course for Study Abroad 9	2	
GLOB6014	Elective Course for Study Abroad 10	2	
GLOB6015	Elective Course for Study Abroad 11	2	
GLOB6016	Elective Course for Study Abroad 12	2	

*)Transferred courses will be transferred based on credit transfer policies on study program with total of 16 credits.

Student should pass all of these quality controlled courses as listed below:

No.	Code	Course Name	Minimum Grade
1	CHAR6013	Character Building: Pancasila	B
2	ENTR6004	Entrepreneurship II	C
3	ARCH6042	Architectural Design I*	C
4	ARCH6043	Architectural Design II*	C
5	ARCH6044	Architectural Design III	C
6	ARCH6017	Site Planning*	C
Stream: Real Estate			
7	ARCH6009	Introduction to Real Estate	C
8	ARCH6051	Urban Architecture	C
Stream: Interior Architecture			
7	ARCH6054	Interior Design Principles	C
8	ARCH6067	Interior Installation	C
Stream: Digital Architecture			
7	ARCH6090	Architectural Geometry Design	C
8	ARCH6103	Architectural Design Computing III	C

*) Tutorial & Multipaper