

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 and provide knowledge for those who want 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 become 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
2. Arrange Building Systems
3. Produce an Architectural Design project.
4. Integrate Environmental Systems and Local Values with Architectural Design
5. Adopt Professional Ethics
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 and Design, Construction Structure, Project Management, Property Management, Interior and mastery of Information Technology.

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

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. Information Technology : 3D Animator
7. Interior : Interior Designer
8. Developer : Planner
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 is based on both the National Curriculum and Architecture Study Program Association. Then to absorb the requirement of housing facility, the Architecture Study Program at BINUS UNIVERSITY also adds "housing development" 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 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 conomic value enables students to produce creative and innovative design. The comprehensive teaching learning process enables students to understand various market demand.

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	CB412	CB: Self Development	2	20
	R0022	Introduction to Architecture	2	
	R0434	Aesthetics	4	
	R0444	Architectural Communication Technique	4	
	R0702	Design Methods	2	
	R0714	Architectural Design I	4	
	G1372	English Entrant	2	
2	CB422	CB: Spiritual Development	2	20
	R0132	Material Technology	2	
	R0474	Building Technology I	4	
	R0724	Architectural Design II	4	
	R0772	Traditional Architecture	2	
	G1382	English in Focus	2	
	R0594	Computerized Architectural Design I	4	
3	R0484	Building Technology II	4	22
	R0734	Architectural Design III	4	
	R0782	Modern Architecture	2	
	G1392	English Savvy	2	
	R0464	Site Planning	4	
	R0604	Computerized Architectural Design II	4	
	R0762	Behavior in Architecture	2	

Sem	Code	Course Name	SCU	Total	
4	CB432	CB: Interpersonal Development	2	22	
	R0792	Tropical Architecture	2		
	EN001	Entrepreneurship I	2		
	R0494	Building Technology III	4		
	R0746	Architectural Design IV	6		
	Stream : Real Estate				
	R0322	Introduction to Real Estate	2		
	R0822	Quantitative Business Analysis	2		
	R0832	Managerial Economic	2		
	Stream : Digital Architecture				
	R0452	Mathematics of Architecture	2		
	R0614	Computerized Architectural Design III	4		
	Stream : Interior Architecture				
	R0844	Interior Presentation	4		
R0852	Interior Design Principles	2			
5	CB442	CB: Professional Development	2	22	
	R0142	Building Physics	2		
	R0504	Building Technology IV	4		
	R0756	Architectural Design V	6		
	R0812	Utility	2		
	Stream : Real Estate				
	R1072	Property Assessment I*	2		
	R0882	Leadership Organization Behavior	2		
	R0892	Information Technology for Management	2		
	Stream : Digital Architecture				
	R0904	Computerized Architectural Design IV	4		
	R1082	Architectural Photography*	2		
	Stream : Interior Architecture				
	R0924	Interior Design	4		
R1092	Building Material Knowledge*	2			

Sem	Code	Course Name	SCU	Total	
6	R0802	Urban Architecture	2	22	
	R1132	Project Management	2		
	R0952	Sustainable Architecture	2		
	R0962	Architectural Research Methods	2		
	EN002	Entrepreneurship II	2		
	Stream : Real Estate				
	R0874	Property Assessment II	4		
	R0976	Real Estate Design	6		
	R0982	Financial Accounting	2		
	Stream : Digital Architecture				
	R0414	Multi Media	4		
	R0996	Advanced Architectural Design	6		
	R1002	Architectural Animation Design	2		
	Stream : Interior Architecture				
	R1016	Advanced Interior Design	6		
R1024	Acoustics and Lighting Design	4			
R1032	Interior Installation	2			
7	R0242	Seminar	2	10	
	R0212	City and Settlement	2		
	Stream : Real Estate				
	R1106	Internship*	6		
	Stream : Digital Architecture				
	R1116	Internship*	6		
	Stream : Interior Architecture				
R1126	Internship*	6			
8	R0688	Final Project	8	8	
	Elective Courses				
	G1402	English for Business Presentation	2		
	G1412	English for Written Business Communication	2		
TOTAL CREDIT 146					

*) Entrepreneurship embedded

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

No	Code	Course Name	Minimum Grade
1	CB412	CB: Self Development	B
2	EN002	Entrepreneurship II	C
3	R0714	Architectural Design I*	C
4	R0724	Architectural Design II*	C
5	R0734	Architectural Design III*	C
6	R0746	Architectural Design IV	C
Stream			
Real Estate			
7	R0322	Introduction to Real Estate	C
8	R0976	Real Estate Design	C
Interior Architecture			
7	R0852	Interior Design Principles	C
8	R1016	Advanced Interior Design	C
Digital Architecture			
7	R0452	Mathematics of Architecture	C
8	R0996	Advanced Architectural Design	C

*) Tutorial & Multipaper