

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. Adopt Professional Ethics.
3. Arrange Building Systems.
4. 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 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:

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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. 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 it's 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	CHAR6013	Character Building: Pancasila	2	20	
	ARCH6001	Introduction to Architecture	2		
	ARCH6014	Aesthetics	4		
	ARCH6015	Architectural Communication Technique	4		
	ARCH6041	Design Methods	2		
	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	20	
	ARCH6002	Material Technology	2		
	ARCH6018	Building Technology I	4		
	ARCH6043	Architectural Design II	4		
	ARCH6048	Traditional Architecture	2		
	ARCH6086	Architectural Design Computing I	4		
	English University Courses II				
	ENGL6129	English Savvy	2		
ENGL6131	English for Written Business Communication	2			
3	CHAR6015	Character Building: Agama	2	22	
	ARCH6019	Building Technology II	4		
	ARCH6044	Architectural Design III	4		
	ARCH6049	Modern Architecture	2		
	ARCH6017	Site Planning	4		
	ARCH6087	Architectural Design Computing II	4		
	ARCH6047	Behavior in Architecture	2		

Sem	Code	Course Name	SCU	Total	
4	ARCH6050	Tropical Architecture	2	20	
	ENTR6003	Entrepreneurship I	2		
	ARCH6020	Building Technology III	4		
	ARCH6045	Architectural Design IV	6		
	Stream: Real Estate				
	ARCH6009	Introduction to Real Estate	2		
	STAT8076	Quantitative Business Analysis	2		
	ECON8013	Managerial Economic	2		
	Stream: Digital Architecture				
	ARCH6090	Architectural Geometry Design	2		
	ARCH6088	Architectural Design Computing III	4		
	Stream: Interior Architecture				
	ARCH6053	Interior Presentation	4		
	ARCH6054	Interior Design Principles	2		
5	ARCH6003	Building Physics	2	20	
	ARCH6021	Building Technology IV	4		
	ARCH6046	Architectural Design V	6		
	ARCH6052	Utility	2		
	Stream: Real Estate				
	ARCH6071	Property Assessment I*	2		
	MGMT8061	Leadership Organization Behavior	2		
	COMP6037	Information Technology for Management	2		
	Stream: Digital Architecture				
	ARCH6097	Architectural Design Computing IV	4		
	DSGN6010	Architectural Photography*	2		
	Stream: Interior Architecture				
	ARCH6058	Interior Design	4		
	ARCH6072	Building Material Knowledge*	2		
6	ARCH6051	Urban Architecture	2	24	
	ARCH6076	Project Management	2		
	ARCH6061	Sustainable Architecture	2		
	ARCH6084	Architectural Research Methods	4		
	ENTR6004	Entrepreneurship II	2		
	Stream: Real Estate				
	ARCH6099	Property Assessment II*	4		
	ARCH6063	Real Estate Design	6		
	ACCT8091	Financial Accounting	2		
	Stream: Digital Architecture				
	MDIA6016	Multi Media*	4		
	ARCH6064	Advanced Architectural Design	6		
	DSGN6009	Architectural Animation Design	2		
	Stream: Interior Architecture				
ARCH6065	Advanced Interior Design	6			
ARCH6101	Acoustics and Lighting Design*	4			
ARCH6067	Interior Installation	2			

Sem	Code	Course Name	SCU	Total	
7	ARCH6040	Seminar	4	12	
	ARCH6004	City and Settlement	2		
	Stream: Real Estate				
	ARCH6068	Internship	6		
	Stream: Digital Architecture				
	ARCH6069	Internship	6		
	Stream : Interior Architecture				
8	ARCH6070	Internship	6	8	
	ARCH6039	Final Project	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

Student should pass all of these quality controlled examinations 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	ARCH6063	Real Estate Design	C
Stream: Interior Architecture			
7	ARCH6054	Interior Design Principles	C
8	ARCH6065	Advanced Interior Design	C
Stream: Digital Architecture			
7	ARCH6090	Architectural Geometry Design	C
8	ARCH6064	Advanced Architectural Design	C

*) Tutorial & Multipaper