CURRICULUM

Bachelor of Science in Architecture (BSArchi)

Academic Year 2018-2019

Reference CMOs: CMO No. 61 s. 2017, CMO No. 4 s. 2018 and CMO No. 20, s. 2013

Curriculum Description

Architectural education is concerned with providing the students with comprehensive knowledge, skill and competence in architecture and their total growth and development within the framework of democratic ideals and values; and the preservation, conservation, and promotion of the Filipino architecture heritage within the global context, thus making the architecture curriculum relevant to the present needs and latest international trends. The program includes general education, Technical Courses (mathematics, natural sciences, basic engineering sciences, professional, allied, and technical elective courses, architecture comprehensive course and non-academic courses-PE and NSTP).

Program Educational Objectives of Architecture

The Architecture alumni three to five years after graduation shall:

1. Be knowledgeable of the comprehensive architectural services, both in theory and practice.
2. Address the needs and demands of society and integrates himself to the social, economic, cultural and environmental aspects of nation building;
3. Practice the basic philosophy and the fundamental principles of the multi-dimensional aspects of architecture, understanding of the direct relationship between man and its environment
4. Adhere to professional, moral and ethical standards in the practice of Architecture.

Student Outcomes

The following skills, knowledge, and behavior are expected to be attained by students as they progress through the program:

a. Ability to apply knowledge of architectural engineering and building technology to solve design problems
b. Ability to function on multidisciplinary teams
c. Understanding of professional and ethical responsibility
d. Ability to communicate effectively through various forms of ICT media for design concept presentation and prepare technical reports and project documentation through oral and written communication.
e. Broad education necessary to understand the impact of architecture design solutions in a global, economic, environmental, and societal context
f. Recognition of the need for, and an ability to engage in continuous professional learning
g. Ability to use techniques, skills, and modern architecture tools necessary for architecture practice
h. Awareness to the laws, rules and regulations relevant to the practice of architecture.

CURRICULUM COMPONENTS

Classification/ Field / Course	No. of Hours/Week			Credit Units
	Lec	Lab	Studio	
I. TECHNICAL COURSES				
A. Mathematics				
Solid Mensuration	2	0	0	2
Differential and Integral Calculus	3	0	0	3
Fundamentals of Physics	3	3	0	4
Sub-Total	**8**	**3**	**0**	**9**
B. Basic Engineering Courses				
Mechanics of Rigid Bodies	3	0	0	3
Mechanics of Materials	3	0	0	3
Theory of Structures for Architects	3	0	0	3
Steel and Timber Design	3	0	0	3
Architectural Structures	3	0	0	3
Surveying	2	3	0	3
Sub-Total	**17**	**3**	**0**	**18**
C. Allied Courses				
Architectural Visual Communications 1 - Graphics 1	1	0	6	3
Architectural Visual Communications 3 - Graphics 2	1	0	6	3
Architectural Visual Communications 2 - Visual Techniques 1	1	0	3	2
Architectural Visual Communications 4 - Visual Techniques 2	1	0	3	2
Architectural Visual Communications 5 - Visual Techniques 3	1	0	3	2
Sub-Total	**5**	**0**	**21**	**12**
D. Professional Courses				
Architectural Design 1- Introduction to Design	2	0	3	3
Architectural Design 2- Creative Design and Fundamentals	2	0	3	3
Architectural Design 3- Creative Design in Architectural Interiors	1	0	6	3
Architectural Design 4- Space Planning 1	1	0	6	3
Architectural Design 5- Space Planning 2	1	0	9	4
Architectural Design 6- Site Development Planning and Landscaping	1	0	9	4
Architectural Design 7- Community Architecture and Urban Design	1	0	12	5
Architectural Design 8- Design of Complex Complex Structures	1	0	12	5
Architectural Design 9- Thesis Research Writing	1	0	12	5
Architectural Design 10- Thesis Research Application	1	0	12	5
Architectural Interiors	1	0	3	2
Theory of Architecture 1	1	0	3	2
Theory of Architecture 2	2	0	0	2
Building Technology 1 - Building Materials	3	0	0	3
Building Technology 2 - Construction Drawings in Wood, Steel and Concrete (1-Storey)	2	0	3	3
Building Technology 3 - Construction Drawings in Wood, Steel and Concrete (2 Storey Residential Structure)	2	0	3	3
Building Technology 4 - Specification Writing and Quantity Surveying	2	0	3	3
Building Technology 5 - Alternative Building Construction Systems	2	0	3	3
Building Utilities 1 - Plumbing and Sanitary System	2	0	3	3
Building Utilities 2 (BU 2) - Electrical, Electronics and Mechanical Systems	2	0	3	3
Building Utilities 3 (BU 3) - Acoustics and Lighting Systems	2	0	3	3
History of Architecture 1	2	0	0	2
History of Architecture 2	2	0	0	2
History of Architecture 3	2	0	0	2
History of Architecture 4	2	0	0	2
Professional Practice 1 (Laws Affecting the Practice of Architecture)	3	0	0	3
Professional Practice 2 (Administering the Regular Services of the Architect)	3	0	0	3
Professional Practice 3 (Global Practice in the 21st Century)	3	0	0	3
Planning 1 - Site Planning & Landscape Architecture	3	0	0	3
Planning 2 - Fundamentals of Urban Design and Community Architecture	3	0	0	3
Planning 3 - Introduction to Urban and Regional Planning	3	0	0	3

Computer-Aided Design & Drafting for Architecture 1	1	3	0	2
Computer-Aided Design & Drafting for Architecture 2/BIM	1	3	0	2
Research Methods for Architecture	3	0	0	3
Tropical Design	2	0	0	2
Housing	2	0	0	2
Business Management & Application for Architecture 1	3	0	0	3
Business Management & Application for Architecture 2	3	0	0	3
Architectural Comprehensive Course	3	0	0	3
Sub-Total	**77**	**6**	**111**	**116**
Specialization Courses				
*Specialization 1 (Geographic Information System)	3	0	0	3
*Specialization 2 (Project and Construction Management)	3	0	0	3
*Specialization 3 (Physical Planning)	3	0	0	3
Internship (OJT)	0	0	200	2
Sub-Total	**9**	**0**	**200**	**11**
Total Technical Courses	**116**	**12**	**332**	**166**
II. NON-TECHNICAL COURSES				
A. General Education Courses				
Understanding the Self	3	0	0	3
Readings in Philippine History	3	0	0	3
Mathematics in the Modern World	3	0	0	3
Contemporary World	3	0	0	3
Ethics	3	0	0	3
Science, Technology and Society	3	0	0	3
Purposive Communication	3	0	0	3
Art Appreciation	3	0	0	3
Sub-Total	**24**	**0**	**0**	**24**
B. Mandated Subjects				
Filipino 1 (Kontekstwalisadong Komunikasyon sa Filipino)	3	0	0	3
Filipino 2 (Filipino sa Iba't Ibang Disiplina)	3	0	0	3
ASEAN Literature	3	0	0	3
Life and Works of Rizal	3	0	0	3
Sub-Total	**12**	0	0	**12**
Total Non-Technical Courses	**36**	**0**	**0**	**36**
II. NON-ACADEMIC (MISCELLANY) COURSES				
PE 101	2	0	0	2
PE 102	2	0	0	2
PE 103	2	0	0	2
PE 104	2	0	0	2
NSTP 111	3	0	0	3
NSTP 121	3	0	0	3
Sub-Total	**14**	**0**	**0**	**14**
Total Non-Academic Courses	**14**	**0**	**0**	**14**
GRAND TOTAL	**166**	**12**	**332**	**216**

SUMMARY	
Courses	**Number of Units**
I. Technical Courses	
A. Mathematics	9
B. Basic Engineering Courses	18
C. Allied Courses	12
D. Professional Courses	116
Specialization Courses	11
II. Non- Technical Courses	
A. General Education Core Courses	24
B. Mandated Subjects	12
III. Non- Academic (Miscellany) Courses	
P.E.	8
NSTP	6
Grand Total	**216**

PROGRAM OF STUDY

FIRST YEAR							
First Semester							
Course Code	**Course Title**	**No. of Hour/s**			**Unit/s**	**Pre-requisite/s**	**Co-requisite/s**
		Lec	**Lab**	**Studio**			
Math 405	Solid Mensuration	2	0	0	2		
GEd 101	Understanding the Self	3	0	0	3		
GEd 108	Art Appreciation	3	0	0	3		
ARCH 501	Architectural Design 1- Introduction to Design	2	0	3	3		
ARCH 502	Architectural Visual Communications 1 - Graphics 1	1	0	6	3		
ARCH 503	Architectural Visual Communications 2 - Visual Techniques 1	1	0	3	2		
ARCH 504	Theory of Architecture 1	1	0	3	2		
ARCH 505	History of Architecture 1	2	0	0	2		
PE 101	Physical Fitness, Gymnastics and Aerobics	2	0	0	2		
NSTP 111	National Service Training Program 1	3	0	0	3		
	Total	**20**	**0**	**15**	**25**		

FIRST YEAR							
Second Semester							
Course Code	**Course Title**	**No. of Hour/s**			**Unit/s**	**Pre-requisite/s**	**Co-requisite/s**
		Lec	**Lab**	**Studio**			
Math 406	Differential and Integral Calculus	3	0	0	3	Math 405	
ARCH 506	Architectural Design 2- Creative Design and Fundamentals	2	0	3	3	ARCH 501, ARCH 504	
ARCH 507	Building Technology 1 - Building Materials	3	0	0	3		
ARCH 508	Architectural Interiors	1	0	3	2	ARCH 504	ARCH 507
ARCH 509	Architectural Visual Communications 3 - Graphics 2	1	0	6	3	ARCH 502	
ARCH 510	Architectural Visual Communications 4 - Visual Techniques 2	1	0	3	2	ARCH 503	
ARCH 511	Theory of Architecture 2	2	0	0	2	ARCH 504	
ARCH 512	History of Architecture 2	2	0	0	2	ARCH 505	
PE 102	Rhythmic Activities	2	0	0	2	PE 101	
NSTP 121	National Service Training Program 2	3	0	0	3	NSTP 111	
	Total	**20**	**0**	**15**	**25**		

SECOND YEAR							
First Semester							
Course Code	**Course Title**	**No. of Hour/s**			**Unit/s**	**Pre-requisite/s**	**Co-requisite/s**
		Lec	**Lab**	**Studio**			
ARCH 513	Architectural Design 3- Creative Design in Architectural Interiors	1	0	6	3	ARCH 506, ARCH 511, ARCH 508	
GEd 102	Mathematics in the Modern World	3	0	0	3		
GEd 106	Purposive Communication	3	0	0	3		
SCI 405	Fundamentals of Physics	3	3	0	4		
ARCH 514	Building Utilities 1 - Plumbing and Sanitary System	2	0	3	3		
ARCH 515	Architectural Visual Communications 5 - Visual Techniques 3	1	0	3	2	ARCH 510	
ARCH 516	Tropical Design	2	0	0	2		
ARCH 517	History of Architecture 3	2	0	0	2	ARCH 512	
GEd 105	Readings in Philippine History	3	0	0	3		
PE 103	Individual and Dual Sports	2	0	0	2	PE 101	
	Total	**22**	**3**	**12**	**27**		

SECOND YEAR							
Second Semester							
Course Code	**Course Title**	**No. of Hour/s**			**Unit/s**	**Pre-requisite/s**	**Co-requisite/s**
		Lec	**Lab**	**Studio**			
ARCH 518	Architectural Design 4- Space Planning 1	1	0	6	3	ARCH 513	ARCH 522
Fili 101	Kontekstwalisadong Komunikasyon sa Filipino	3	0	0	3		
GEd 107	Ethics	3	0	0	3		
ENGG 419	Mechanics of Rigid Bodies	3	0	0	3	SCI 405	
CE 421	Surveying	2	3	0	3		
ARCH 520	History of Architecture 4	2	0	0	2	ARCH 517	
ARCH 521	Building Technology 2 - Construction Drawings in Wood, Steel and Concrete (1-Storey)	2	0	3	3	ARCH 507, ARCH 514	
ARCH 522	Professional Practice 1 (Laws Affecting the Practice of Architecture)	3	0	0	3		
PE 104	Team Sports	2	0	0	2	PE 101	
	Total	**21**	**3**	**9**	**25**		

Certificate in Drafting Technology shall be granted upon completion of all prescribed courses from 1st year -1st semester to 2nd year-2nd semester

THIRD YEAR							
First Semester							
Course Code	Course Title	No. of Hour/s			Unit/s	Pre-requisite/s	Co-requisite/s
		Lec	Lab	Studio			
ARCH 523	Architectural Design 5- Space Planning 2	1	0	9	4	ARCH 518	
ENGG 420	Mechanics of Materials	3	0	0	3	ENGG 419	
ARCH 524	Building Utilities 2 (BU 2) - Electrical, Electronics and Mechanical Systems	2	0	3	3	ARCH 514	
ARCH 525	Computer-Aided Design and Drafting for Architecture 1	1	3	0	2	ARCH 515	
ARCH 526	Building Technology 3 - Construction Drawings in Wood, Steel and Concrete (2 Storey Residential Structure)	2	0	3	3	ARCH 521, ARCH 514	ARCH 524
Fili 102	Filipino sa Iba't Ibang Disiplina	3	0	0	3		
ARCH 527	Professional Practice 2 (Administering the Regular Services of the Architect)	3	0	0	3	ARCH 522	
	Total	**15**	**3**	**15**	**21**		

THIRD YEAR							
Second Semester							
Course Code	Course Title	No. of Hour/s			Unit/s	Pre-requisite/s	Co-requisite/s
		Lec	Lab	Studio			
GEd 103	Life and Works of Rizal	3	0	0	3		
ARCH 528	Architectural Design 6- Site Development Planning and Landscaping	1	0	9	4	ARCH 523	
ARCH 529	Computer-Aided Design and Drafting for Architecture 2/BIM	1	3	0	2	ARCH 525	
CE 422	Theory of Structures for Architects	3	0	0	3	ENGG 409	
ARCH 530	Building Technology 4 - Specification Writing and Quantity Surveying	2	0	3	3	ARCH 526, ARCH 524	ARCH 531
ARCH 531	Building Utilities 3 (BU 3) - Acoustics and Lighting Systems	2	0	3	3	ARCH 524	
ARCH 532	Planning 1- Site Planning and Landscape Architecture	3	0	0	3	CE 421, ARCH 516	
	Total	**15**	**3**	**15**	**21**		

Certificate in CADD shall be granted after completion of all prescribed courses from 1st year - 1st semester to 3rd year- 2nd semester

FOURTH YEAR							
First Semester							
Course Code	Course Title	No. of Hour/s			Unit/s	Pre-requisite/s	Co-requisite/s
		Lec	Lab	Studio			
ARCH 533	Architectural Design 7- Community Architecture and Urban Design	1	0	12	5	ARCH 528	
CE 423	Steel and Timber Design	3	0	0	3	CE 422	
ARCH 535	Building Technology 5 - Alternative Building Construction Systems	2	0	3	3	ARCH 526	
ARCH 536	Planning 2 - Fundamentals of Urban Design and Community Architecture	3	0	0	3	ARCH 532	
ARCH 537	Research Methods for Architecture	3	0	0	3	4th year standing	
ARCH 538	Professional Practice 3 (Global Practice in the 21st Century)	3	0	0	3	ARCH 527	
GEd 104	The Contemporary World	3	0	0	3		
	Total	**18**	**0**	**15**	**23**		

Certificate in Building Technology and Utilities shall be granted after completion of all prescribed courses from 1st semester to 4th year - 1st semester

FOURTH YEAR							
Second Semester							
Course Code	Course Title	No. of Hour/s			Unit/s	Pre-requisite/s	Co-requisite/s
		Lec	Lab	Studio			
ARCH 539	*Specialization 1 (Geographic Information System)	3	0	0	3	ARCH 533	
ARCH 540	Planning 3 - Introduction to Urban and Regional Planning	3	0	0	3	ARCH 536	
ARCH 541	Architectural Design 8- Design of Complex Complex Structures	1	0	12	5	ARCH 533, 4th year standing	
GEd 109	Science Technology and Society	3	0	0	3		
Litr 102	ASEAN Literature	3	0	0	3		
	Total	**13**	**0**	**12**	**17**		

FOURTH YEAR							
Midterm							
Course Code	Course Title	No. Hour/s			Unit/s	Pre-requisite/s	Co-requisite/s
		Lec	Lab	Studio			
ARCH 542	Internship (OJT)	0	0	200	2	All courses in 1st year - 4th year level	
	Total	**0**	**0**	**200**	**2**		

FIFTH YEAR							
First Semester							
Course Code	Course Title	No. of Hour/s			Unit/s	Pre-requisite/s	Co-requisite
		Lec	Lab	Studio			
ARCH 543	Architectural Design 9- Thesis Research Writing	1	0	12	5	All courses in 1st year - 4th year level	
ARCH 544	Architectural Structures	3	0	0	3	CE 423	
ARCH 545	Housing	2	0	0	2	ARCH 522	
ARCH 546	Business Management and Application for Architecture 1	3	0	0	3	ARCH 538	ARCH 547
ARCH 547	*Specialization 2 (Project Management)	3	0	0	3	ARCH 539	
	Total	**12**	**0**	**12**	**16**		

FIFTH YEAR							
Second Semester							
Course Code	Course Title	No. of Hour/s			Unit/s	Pre-requisite/s	Co-requisite/s
		Lec	Lab	Studio			
ARCH 548	Architectural Design 10- Thesis Research Application	1	0	12	5	ARCH 543	
ARCH 549	Business Management & Application for Architecture 2	3	0	0	3	ARCH 546	
ARCH 550	*Specialization 3 (Sustainable Design)	3	0	0	3	ARCH 547	
ARCH 551	Architectural Comprehensive Course	3	0	0	3	Graduating	
	Total	**10**	**0**	**12**	**14**		
GRAND TOTAL UNITS		**166**	**12**	**332**	**216**		