

# **FAREAST INTERNATIONAL UNIVERSITY**

## **SYLLABUS FOR: BACHELOR OF ARCHITECTURE (B.ARCH)**

**DEGREE TITLE: BACHELOR OF ARCHITECTURE (B.ARCH)**

**DEPARTMENT OF ARCHITECTURE**

## **CURRICULAM**

### **INTRODUCTION**

Bangladesh is progressing rapidly in technical education for producing technical personnel in the field of Architecture, Interior Design, Interior Architecture, Construction Management, Physical Planning. To maintain a good quality of education in these fields Fareast International University decided to open the faculty of Architecture & Construction including the departments of Architecture, Interior Design, Interior Architecture and Construction Management. Presently Fareast International University is opening the five years undergraduate (B. Arch) program of Architecture department with the aim to provide quality architectural education, because the number of institution offering architectural education is not sufficient enough for fulfilling the needs and aspiration of the society. We believe that through the quality education of architecture will be able to create the appropriate educational atmosphere for the development of architectural education in Bangladesh.

### **ADMISSION REQUIREMENT:**

Students entering the Bachelor of Architecture program for a B. Arch degree, must have completed SSC and HSC with Science or equivalent level of education such as O' Level (Five subjects including Physics, Chemistry and Mathematics) and A' Level (with three major subjects -Physics, Chemistry & Mathematics) or Polytechnic Diploma in a related programs (Architecture/Civil) and must have good grades.

- The students with S.S.C. and H.S.C. background must have at least 2nd Division in both the exams separately.
- The students with S.S.C. and H.S.C. under CGPA system must have at least a minimum CGPA of 2.50 in both the exams separately.
- The students with O-Level and A-Level must have an average grade of B.
- The students with Diploma must have at least a CGP A of 2.50

If an applicant doesn't meet these requirements, she/he will not be accepted for Admission.

### **COURSE WAIVER:**

Considering some of the course content/outline courses under taken during the previous degree/diploma the grade point of waiver shall not exceed of the total credit hour 185.

### **TRANSFER OF CREDIT HOURS**

For transferring the credit hours for a student desires to admit in the department the maximum limit of credit hours considered shall be less than fifty percent of the whole(185 credits). In this case the transferred subjects and grades should be considered after the approval of the advisor and the Equivalent committee.

**BASIC STRUCTURE:**

The total credit requirement for the degree of Bachelor of Architecture (B. Arch) is 185 credits. A regular student should take about 15 credits per semester. Depending on the student's academic standing and the advisor's recommendation a student may take maximum 20 credits and minimum 9 credits for any semester. Considering the even distribution of the credits the length of study for the degree Bachelor of Architecture (B. Arch) is recommended to be 5 years (15 semesters). However if any student fails to earn 185 credits in 5 years he/she may be allowed 3 years to complete the degree. If any student again fails to complete 8 years he may apply to the Academic council for special permission.

**WEIGHTAGE OF CREDIT HOURS:**

The main component of the Architectural education are the DESIGN STUDIO sessional. To give more emphasis on design the ratio of credits between sessional and theory courses is progressively increased in higher levels. Again in the DESIGN STUDIO's the ratio between the credit and contact hours per week is progressively increased for the same reason.

For the design studio's, the supported studio subjects are- Architectural graphics, Graphic Art, Sculpture, Interior Design, Cost Estimation, Computer Application, Computer Graphics, Photographic & Reproduction, Construction Details, Landscape Design. In the final year, Seminar course is offered to complement the design studio work.

For the 2<sup>nd</sup> and 3<sup>rd</sup> SESSIONAL the contact hour per week per semester is double of the credit hour for each subject. The total credit hours for the SESSIONAL subjects is 105.

For the theory compulsory and optional courses the contact hour is the same of the credit hour. The total credit hours for all the THEORY compulsory subject is 64.

There are about 21 OPTIONAL courses which contain 42 credits. Out of 21 courses students have to choose 8 courses for 16 credits.

OPTIONAL courses start from 1 year 2<sup>nd</sup> semester (summer). Usually the students can take 1 course in a semester. However student may choose maximum 2 courses in a semester provided class routine and the advisor allow that. However they can choose the courses (optional) courses 4th semester ahead. But they will be able to choose 6 theory courses (Compulsory & Optional) maximum in a semester.

To fulfill the aspiration and demand of the time new courses both in Sessional and Theory (compulsory and optional) are included. These courses are – Constructional details (Sessional), Green building practice & technology, Construction Management, Vernacular Architecture, Building for disaster: design & management etc.

## STATUS OF THE STUDENT

The status of a student shall be determine by the cumulative credit hour earn by the student.

Following table-2 expresses the status of a student:

**Table-2**

Cumulative Credit Hour	Registered/ Completed	Status of a Student	Cumulative Credit Hour	Registered/ Completed	Status of a Student
14	Registered	1 year 1 semester	88	Completed	3 year 3 semester
14	Completed	1 year 2 semester	100	Completed	4 year 1 semester
25	Completed	1 year 3 semester	119	Completed	4 year 2 semester
35	Completed	2 year 1 semester	126	Completed	4 year 3 semester
50	Completed	2 year 2 semester	143	Completed	5 year 1 semester
55	Completed	2 year 3 semester	157	Completed	5 year 2 semester
66	Completed	3 year 1 semester	166	Completed	5 year 3 semester
79	Completed	3 year 2 semester			

## ACADEMIC CALENDER

According to academic calendar there are three semesters semester 1(Spring), semester 2 (Summer), semester 3(Fall) in a year (52 weeks). Semester 1 and semester 3 containing 17 weeks (lecture-14 weeks and jury, exam, checking of scripts, result short vacation etc. 3 weeks) and the semester 2 containing 18 weeks(lecture-12 weeks and jury, exam, checking of scripts, result, long vacation etc. 6 weeks).

**Table-3**

SEMESTER 1 (Spring)	Lecture Jury, Exam, Checking of Scripts, Result, Vacation	14 weeks ,  3 weeks,	Total-17 weeks
SEMESTER 2 (Summer)	Lecture Jury, Exam, Checking of Scripts Result, Vacation	12 weeks,  6 weeks,	Total-18 weeks
SEMESTER 3 (Fall)	Lecture Jury, Exam, Checking of Scripts, Result, Vacation	14 weeks  3 weeks,	Total-17 weeks
			Total-52 weeks

## COURSE NUMBERING

For expressing the course code (both architectural and non-architectural) of courses 3 digits are used..

The first digit refers the year, the second digit refers the semester and the third digit refers the serial number of the course offered in the department.

## **ASSESSMENT OF SESSIONAL COURSES**

Several projects will be completed in each semesters. The class projects will be assessed by the studio teachers. Jury will be arranged for the final project only of each semester.

## **THESIS PROJECT**

The final design project undertaken by students of 5<sup>th</sup> year 3<sup>rd</sup> semester in partial fulfillment of the requirement of the Degree of Bachelor of Architecture (B. Arch) is termed as Thesis Project. Each student needs to defend his/her thesis project in a Final Jury who will decide the acceptability of the thesis. Also, a student needs to acquire at least 40% of the assigned 12 credits.

The thesis/project enables students to fully articulate their concepts and understanding of architecture as a discipline. It provides them the scope to reflect on understanding of the pattern of life, culture, and the sense of history. At the same time the thesis/ projects enable the examiners to assess the maturity, competence and the ability of the students, to handle projects independently.

The student prepares and submits a thesis/project proposal for approval of the department. The Design should reflect a minimum standard of professional competence. The design is supported by a report which draws upon the existing body of knowledge, and rationalizes the parameters and standards of design, and defines the programmers.

## **ARCHITECTURAL & NON-ARCHITECTURAL COURSES:**

Total 25 sessional courses will be offered through 15 semesters. Out of these courses 10 are DESIGN STUDIO (sessional) which contains 71 credit hour. Rest of the 34 credit hour are Supporting Architectural (sessional) courses.

There are 32 courses containing 64 credit hour. Out of these courses 17 courses are Architectural containing 34 credit hour and 15 are non-Architectural courses containing 30 credit hour. The ratio between Architectural courses and non-Architectural courses is 100:88.

### **THEORY (compulsory) courses Table-2:**

<b>Course</b>	<b>Number of courses</b>	<b>Credit Hours</b>
<b>Arch.</b>	<b>17</b>	<b>34</b>
<b>CE</b>	<b>7</b>	<b>1</b>
<b>CM</b>	<b>2</b>	<b>4</b>
<b>Phy</b>	<b>1</b>	<b>2</b>
<b>HSS</b>	<b>1</b>	<b>2</b>
<b>Math</b>	<b>1</b>	<b>2</b>
<b>ME</b>	<b>1</b>	<b>2</b>
<b>Plan</b>	<b>1</b>	<b>2</b>
<b>EE</b>	<b>1</b>	<b>2</b>
<b>Total</b>	<b>32</b>	<b>64</b>

Ratio between Architectural (compulsory) and Engineering (compulsory) courses (CE, ME, EE)= 100:55  
 Ratio between Architectural (compulsory) and Other (compulsory) courses (Science, HSS, CM, Plan)  
 = 100:35.

Students can choose 8 (optional) courses containing 16 credit hours out of total 21 courses containing 42 credit hours. Out of these 8 (optional) courses students might choose 6 non-Architectural courses (optional) containing 12 credit hours. Ratio between the Optional courses required and the non-Architectural (optional) courses is= 100:75

**YEAR-1 SEMESTER-1  
 SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-I	4.5	9	
ARCHITECTURAL GRAPHIC -I	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
PHYSICS	2	2	
ART & ARCHITECTURE-I	2	2	
DESIGN THEORY-I	2	2	
SOCIOLOGY	2	2	

**YEAR-1 SEMESTER-2  
 SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
ARCHITECTURAL GRAPHIC -II	3	6	Arch.112

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
ED-ICLIMATE & DESIGN	2	2	
CONSTRUCTION MATERIALS (BUILDING & FINISH)	2	2	
MATHEMATICS	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
ART APPRICIATION	2	2	
MUSIC APPRICIATION	2	2	

**YEAR-1 SEMESTER-3****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-II	4.5	9	Arch.111
GRAPHIC-III	1.5	3	Arch.121

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
ARTS & ARCHITECTURE-II	2	2	Arch.114
SOCIETY & ARCHITECTURE OF BENGAL	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
FUNDAMENTAL ENGLISH	2	2	

**YEAR-2 SEMESTER-1****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-III	6	9	Arch.131
COMPUTER APPLICATION	3	1.5	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
ED-II VISUAL & SONIC ENVIRONMENT	2	2	
CONSTRUCTION METHOD & DETAILS-I	2	2	Arch.123
STRUCTURE –I MECHANIC-I	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN THEORY-II	2	2	Arch.115
LOGIC & PHILOSOPHY	2	2	

**YEAR-2 SEMESTER-2****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
COMPUTER GRAPHIC	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
ARTS & ARCHITCTURE-III	2	2	Arch.114
BUILDING SERVICE-I: PLAMBING	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
ECONOMICS	2	2	
ED-III DESIGN IN THE TOPICS	2	2	

**YEAR-2 SEMESTER-3****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-IV	6	9	Arch.211
GRAPHIC ART	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
BUILDING SERVICES-II MECHANICAL EQUIPMENT	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
BUILDING FOR DISASTER: DESIGN MANAGEMENT	2	2	

**YEAR-3 SEMESTER-1****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-V	8	12	Arch.231
PHOTOGRAPHY & REPRODUCTION	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
BUILDING SERVICES-III PLANNINGELECTRICAL EQUIPMENT	2	2	
STRUCTURE-II :BASIC MECHANIC OF SOLID	2	2	



**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
BUILDING TECHNOLOGY	2	2	Arch.123
RURAL PLANNING	2	2	

**YEAR-3 SEMESTER-2****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
WORKING DRAW-I	3	6	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
LANDSCAPE DESIGN	2	2	
ART & ARCHITECTURE-IV	2	2	
BASIC PLANNING	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
HEALTH FACILITIES & PLANNING	2	2	

**YEAR-3 SEMESTER-3****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-VI	8	12	Arch.313

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
SURVEY TECHNIQUE ANALYTICAL METHOD	2	2	
STRUCTURE-III BASIC MECHANIC OF SOLID	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
THEORY & PRACTICE OF DESIGN PLANNING	2	2	

**YEAR-4 SEMESTER-1****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-VII	10	15	Arch.331
SCULPTURE	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
URBAN DESIGN-I	2	2	
HOUSING	2	2	
STRUCTURE-IV STEEL & TOWER STRUCTURE	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
COMMERCIAL BUILDING PLANNING & DESIGN	2	2	

**YEAR-4 SEMESTER-2****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
WORKING DRAWING-II: CONST.DETAILS	3	6	Arch.321
INTERIOR DESIGN-I	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
CONSTRUCTION MANAGEMENT	2	2	
STRUCTURE-V R.C.C DESIGN	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
VERNACULAR ARCHITECTURE	2	2	
ARCHITECTURAL CONSERVATION	2	2	

**YEAR-4 SEMESTER-3****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-VIII	10	15	Arch.411
COST ESTIMATION	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
SPECIFICATION	2	2	
STRUCTURE-VI : ELEMENT TO BUILDING STRUCTURE	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
URBAN DESIGN-II	2	2	Arch.413

**YEAR-5 SEMESTER-1****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
DESIGN STUDIO-IX	13	15	Arch.431

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wks)	Prereq.
GREEN BUILDING PARADICE & TECHNOLOGY	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
INDUSTRIAL BUILDING PLANNING & DESIGN	2	2	
PSYCHOLOGY	2	2	

**YEAR-5 SEMESTER-2****SESSIONAL**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
LANDSCAPE DESIGN STUDIO	1.5	3	
SEMINAR	1.5	3	

**THEORY (Compulsory)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
PRINCIPLES OF ACCOUNTING	2	2	
PROFESSION PRACTICE	2	2	

**THEORY (Optional)**

Course Title	Credits	Duration(Hrs/Wk)	Prereq.
EDUCATIONAL FACILITIES PLANNING & DESIGN	2	2	
URBAN ANTHROPOLOGY	2	2	

**YEAR-5 SEMESTER-3****SESSIONAL**

<b>Course Title</b>	<b>Credits</b>	<b>Duration(Hrs/Wk)</b>	<b>Prereq.</b>
DESIGN STUDIO-X (THESIS) <b>OR</b>	12	15	
DESIGN STUDIO-X (PROJECT)			
DISSERTATION <b>OR</b>	1.5	3	
CONSTRUCTION DOCUMENT			

**THEORY (Optional)**

<b>Course Title</b>	<b>Credits</b>	<b>Duration(Hrs/Wk)</b>	<b>Prereq.</b>
CONTEMPORARY ARCHITECTURAL THEORY	2	2	