



Bachelor of Architecture (B. Arch.)

Curriculum

**Faculty of Science and Technology
Pokhara University
Pokhara, Kaski**

2020

Pokhara University
Bachelor of Architecture (B. Arch.)
(Revised, 2020)

1. Program Objectives

The Bachelor of Architecture (abbreviated as B. Arch.) program under the Faculty of Science and Technology of the Pokhara University is designed to produce professional Architects.

The general objective is to produce an architect with fundamental Architectural and Engineering knowledge & skills who can work independently in small & big scale architectural works & as a member of interdisciplinary team in larger projects.

Specific Objectives

- To understand design process and to apply design theory;
- To understand structural analysis & design;
- To understand historical/vernacular development in architecture;
- To design single function to complex multidisciplinary projects;
- To improve presentation & visualization (verbal, textual & graphical) skills;
- To enhance & develop research-based knowledge; and
- To enhance entrepreneurship & project management.

2. Program Features

The Bachelor of Architecture program is a five-year program structured in ten semesters. The students need to complete 162 credit hours of course work and project work for graduation.

The medium of instruction and examination for this program will be English, and a student is expected to have good English language proficiency with acceptable written and verbal communication skills. All the assignments, reports and presentations will be made in English.

3. Academic Schedule

An academic year of the University consists of two semesters of 16 weeks each. The Fall semester generally starts in September and the Spring semester generally starts in March. In undergraduate level, fresh admissions are made at the beginning of the Fall semester. Pokhara University publishes its yearly academic calendar; all the schools/colleges under the University are required to follow the calendar.

4. Normal and Maximum Duration of Study

The normal duration and maximum duration for the completion of all the requirements for the Bachelor of Architecture program are as follows:

- Normal Duration: 5 Years (10 Semesters)
- Maximum Duration: 10 Years

5. Curricular Structure

The curriculum is designed to equip students with the competencies, knowledge, skills, and attitudes needed for success in professional Architectural practices in Nepal & Abroad. The coursework gives students a broad and holistic view of the complexity of issues in today's professional architectural & engineering environment. The Bachelor of Architecture Program provides the basis for career growth, as well as a stepping stone to a graduate program. The

curriculum comprises the following four clusters (Basic Knowledge, Core knowledge, Application skills, and Soft skills) as given in the following table:

Cluster-Wise Division of Subjects

Basic Knowledge (20%)	Core Knowledge (50%)	Application Skills (15%)	Soft Skills (15%)
Basic Design	Landscape Architecture	Settlement Planning	Auto CAD
Free Hand Sketching	Building Science I/II	Working Drawing and Detailing	Computer Aided 3D Visualization
Basic Drafting	Building Construction I/II/III	Estimation, Valuation and Specification	Communication Techniques
Architectural Graphics	Building Materials	Professional Practice	Practicum (Professional Experience)
Introduction to Architecture	Building Services	Practicum (Professional Office Experience)	Architectural Independent Studies
History of Western & Eastern Architecture	Structure I/II/III	Structural Forms	Architecture & Society Entrepreneurship Development
Mathematics	Surveying	Universal Design	Directed Studies & Seminar
Architectural Model Making	Design Theory I/II	Interior Design & Decoration	Architectural Photography
Statics and Dynamics	Design Studios	Architectural Conservation	Programming in C
	Thesis	Urban Design	Professional Communication Techniques
	History of Modern Architecture	Disaster Risk Management	
	History of Nepalese Architecture	Environment Impact Assessment	
		Advance Building Technology	
		Advance Structure	
		Sustainable Architecture	
		Gender in Architecture	

6. Entry Requirement

The entry requirement for the applicants in Bachelor of Architecture Program in Pokhara University is:

- Intermediate Level in Science (with at least 100 marks mathematics course) or Diploma in Engineering or Architecture, or equivalent program from a recognized institution with at least second division marks, or
- SLC (class 12, Science Stream with at least 100 marks mathematics course) from National Examination Board (NEB) of Nepal with at least 'C' grade in each subject.

In addition to the basic academic requirements, the student must pass the entrance test conducted by the concerned school/college.

7. Admission Procedure

A notice inviting application for admission is publicly announced. The application forms and information brochures will be provided from the concerned school/college, on request, after the payment of the prescribed fee.

The concerned school/college scrutinizes the applications. The eligible candidates are informed to take the entrance test (including aptitude test). The date and time for the entrance test is informed to the prospective students by the school/college/University.

The candidates shall be admitted on merit basis only according to their performance in the entrance examination. The subjects and weight for each subject of the entrance examination will be

Mathematics: 40% and English: 20%, Physics: 15%; Chemistry: 15%, Aptitude Test: 10% [if only Aptitude test without Chemistry test, weightage will be 25% (15% + 10%)]

The school/college may also interview the candidates for final selection for admission. Eligible foreign students may be admitted against limited seats (20% of the total seats) on the basis of an interview to be conducted by the concerned school/college.

The candidates, who are given provisional admission, pending the submission of the qualifying certificates, will be required to submit an application specifying that they will submit their qualifying certificates within a month of admission. In case of default, the admission may be cancelled.

8. Student's Evaluation

A student's academic performance in a course is evaluated in two phases as:

- Internally by the concerned faculty member through juries, quizzes, tutorials, lab works, home assignments, class tests, class participation, term papers, internal exam (like Unit Test & Assessment) etc.
- Externally by the Office of the Controller of Examinations of Pokhara University through semester-end examinations.
- For final evaluation of Architectural Design (Design Studio) courses, external jury will be approved by the Office of the Controller of Examinations of Pokhara University.

A fifty percent weight is given to internal (Sessional) evaluation and fifty percent weight is given to external evaluation (semester-end examination). A student is required to pass the internal and external evaluations independently. The final grade awarded to a student in a course is based on his/her consolidated performance in both internal and external evaluations.

A student will get NOT QUALIFIED (NQ) status in the internal evaluation if his/her performance falls below the minimum requirement. Such students will not be allowed to appear in the semester-end examination/ jury of that particular course.

9. Evaluation of Elective Courses

The concerned school/college will conduct internal and semester-end examinations of the elective courses following the rules and directives of the Office of the Controller of Examination (OCE). The school/college must properly preserve answer sheets and other necessary documents of these examinations and submit these to the Office of the Dean/Controller as and when instructed. The school/college must forward final grades of students to the OCE within one month after completion of semester-end examinations and the results should not be disclosed to students till formal notification is received from the OCE. The answer sheets must be preserved in sealed bags at the respective school/college for a period of one year.

10. Grading System

The letter grade awarded to a student in a subject is based on his/her consolidated performance in sessional and final examinations. The letter grade in any particular subject is an indication of a student's relative performance in that course. The pattern of grading is as follows:

Grade	Grade Point	Description
A	4.0	Excellent
A-	3.7	
B+	3.3	
B	3.0	Good
B-	2.7	
C+	2.3	
C	2.0	Satisfactory
C-	1.7	
D+	1.3	
D	1.0	Minimum Requirement
F	0	Fail

Only in very rare and unusual circumstances, if a student cannot finish all the required work for the course, he/she may be awarded an incomplete grade "I". If all the required work is not completed within the following semester, the grade of I will automatically be converted to an "F". A student receiving an 'I' grade does not need to register for that subject in the following semester to complete the required works.

The performance of a student in a semester shall be evaluated in terms of the Semester Grade Point Average (SGPA) which is the grade point average for the semester. The cumulative grade point average (CGPA) is the grade point average for all completed semesters.

- The semester grade point average (SGPA) which is the grade point average for the semester and is given by:
$$SGPA = \frac{\text{Total honor points earned in a semester}}{\text{total number of credit hours taken in a semester}}$$
- The cumulative grade point average (CGPA) which is the grade point average for all completed semester and is given by:
$$CGPA = \frac{\text{Cumulative total honor points earned}}{\text{cumulative total number of credit hours taken}}$$

where,

Honor Point = Grade point earned in a subject \times Number of credits assigned to that subject

11. Course Registration

The academic record of a student is maintained in terms of the courses for which he/she registers in any semester, and the grades he/she obtains in those courses. The Course Registration is done at the beginning of each semester. Since registration is a very important procedural part of the credit system, it is absolutely essential that all students present themselves at the school/college for the Course Registration. In case of illness or any exceptional circumstance during the registration period, he/she must inform the head of the institution of the same. Registration in absentia may be allowed only in rare cases, at the discretion of the concerned head of the institution.

A student's nominee cannot register for courses but will only be allowed to complete other formalities.

12. Repeating a Course

A course may be taken only once for grade. Since passing of all courses individually is a degree requirement, the student must retake the failing course when offered and must successfully complete the course. A student will be allowed to retake maximum of two courses to achieve a minimum CGPA of 2.0. The grade earned on the retake examination will substitute the earlier grade earned by the student in that course. A student can retake a course only when it is offered by the college/University.

13. Attendance Requirements

A student must attend every scheduled lecture, tutorial, seminar and practical classes. However, to accommodate for late registration, sickness and other contingencies, the attendance requirements will be a minimum of 80% of the classes actually held. If the student is absent from the school/college for more than four consecutive weeks without permission of the principal/director, his/her name will be removed from the school/college roll.

14. Credit Transfer and Withdrawal

Up to 25% of the total credit hours of the courses completed in an equivalent program of a recognized institution may be transferred/ waived for credit on the recommendation of the principal of the school/college. For the credit transfer, a student must receive a "B" or above grade in respective course. Courses taken earlier than five years from the time of transfer may not be accepted for the credit transfer. However, a student transferring from one program to another program of Pokhara University may receive a credit transfer of all the compatible courses completed with at least a "C" grade.

A student may apply for withdrawal from the entire semester only on medical grounds. The principal/director will examine the application for semester withdrawal, and depending on the gravity of the case, he/she will make the decision. No partial withdrawal from the courses registered in a semester will be considered.

15. The Course Coding Procedure

Each course is identified by three capital letters followed by three digits. The first digit of each number indicates the academic year of the course (1 for first year, 2 for second year and so on). The second digit (middle digit indicates subject area (as shown in the following table), and the third digit indicates the subject hierarchy in that particular sub-area. The following table provides the information regarding subject area, area code, and the middle digit indicator.

Area	Area Code	Middle Digit Indicator
Presentation Skill	PRS	1
Visualization Skill	VIS	2
Architectural Design Studio	ADS	3
Architecture, Environment and Society	AES	4
Building Technology	BLT	5
Building Management and Professional Practice	BMP	6
History of Architecture	HIS	7
Design Theory & Thesis	DTT	8
Architectural Elective	AEL	9
Architecture Supportive Courses	ASC	0

Area-wise Subject List and Subject Hierarchy

Presentation Skill Courses:

Subject	Subject Hierarchy
Freehand Sketching (Focused on Architectural Expression)	1
Basic Drafting	2
Basic Design	3
Architectural Graphics	4
Computer Aided Design / Computer Aided 3D Visualization	5, 6

Visualization Skill Courses:

Subject	Subject Hierarchy
Architectural Model Making	1
Architectural Independent Studies	2
Structural Forms	3
Directed Studies & Seminar	4

Architectural Design Studio Courses:

Subject	Subject Hierarchy
Design Studios (beginning from single functional units to multi-functional complex)	1 to 7

Architecture, Environment & Society Courses:

Subject	Subject Hierarchy
Building Science I	1
Landscape Architecture	2
Building Science II	3
Settlement Planning	4
Architects & Society	5

Building Technology Courses:

Subject	Subject Hierarchy
Building Materials	1
Building Construction I	2
Building Construction II	3
Building Construction III	4

Building Management and Professional Practice Courses:

Subject	Subject Hierarchy
Working Drawings and Detailing	1
Practicum	2
Professional Practice	3

History of Architecture Courses:

Subject	Subject Hierarchy
Introduction to Architecture	1
History of Architecture I: Western & Eastern	2
History of Architecture II: Modern	3
History of Architecture III: Nepalese	4

Design Theory & Thesis Courses:

Subject	Subject Hierarchy
Design Theory I	1
Design Theory II	2
B. Arch Thesis: Part I	3
B. Arch Thesis: Part II	4

Architectural Elective Courses:

Subject	Subject Hierarchy
Elective I (Advance Graphics, Gender in Architecture, Interior Design, Architectural Photography & Professional Communication Techniques)	1
Elective II (Green Building Design, Low Cost Housing, Vernacular Architecture, Disaster Risk Management, Urban Design & Architectural Conservation)	2
Elective III (Environmental Impact Assessment, Sustainable Architecture, Advanced Building Technology, Heritage Conservation, Advance Structure & Entrepreneurship Development)	3

Architectural Supportive Courses:

Subject	Subject Hierarchy
Mathematics	1
Communication Skills	2
Statics & Dynamics	3
Structure I	4
Structure II	5
Surveying	6
Structure III	7
Building Services	8
Estimating, Valuation and Specification	9

16. Provision for Re-totaling and Rechecking

Following the publication of the semester-end examination, an examinee may apply for re-totaling or rechecking of the grades as per the Pokhara University Rules, upon payment of the prescribed fee.

17. Degree Requirements

For graduation, a student should have:

- A 'D' or better grade in each of the subject as specified in the curricular structure section,
- Complete all the courses and project work as specified in the curricular structure section within the maximum time period mentioned in the duration of study section,
- A CGPA of 2.00 or higher.

18. Distinction and Dean's List

A student who obtains 3.6 CGPA or above will receive the Bachelor of Architecture degree with distinction. The Dean's list recognizes outstanding academic performances; to qualify, a student must have 3.7 CGPA or above.

19. Final Examination and Graduation

The Office of the Controller of Examinations of Pokhara University is responsible for conducting all the semester-end examinations of the University. The examination timetable will be published no later than two weeks prior to the start of the examination period and the time, date, duration, and examination centers will be specified. It is the candidate's responsibility to attend the semester-end examination at the correct time and place and to comply with the examination rules.

The Office of the Controller of Examinations of Pokhara University will publish the official results of the examinations in its web site and make the results available to the concerned schools/colleges. It is the responsibility of the candidates to make themselves aware of their results. Students are responsible for reviewing records carefully to ensure that they are completing all degree requirements.

The Office of the Controller of Examinations of Pokhara University will make arrangements for graduation ceremony. A graduate wishing to attend the graduation ceremony should complete a diploma request form with the Office of the Controller of Examinations. Degrees, diplomas, honors and medals will be awarded to graduates at the graduation ceremony. The students need to obtain official verification of their transcripts from the Office of the Controller of Examinations to apply for participating in the graduation ceremony.

20. Unfair Means

Students are strictly forbidden from plagiarism and adopting unfair means in class assignments, tests, report-writing and final examination.

The following would be considered as adoption of unfair means during examination:

- Communication with fellow students for obtaining help.
- Copying from another student's script/report/paper.
- Copying from disk, palm of hand, mobile phone, or other incriminating documents.
- Possession of any incriminating documents or electronic gadget, whether used or not.

- Any approach in direct or indirect form to influence teacher concerning grade.
- Unruly behavior which disrupts academic program.

Adoption of unfair means may result in the dismissal of the student from the program and expulsion of the student from the school/college and as such from Pokhara University.

Note: The provisions of this document are not to be regarded as a binding contract between the Pokhara University and the students. The University reserves the right to change any provisions or requirements contained in this document at any time, without pre-notification, within the students' term of reference, and the students are required to abide by the latest provisions or requirements of the University. By enrolling in the Pokhara University system, the students are expressing their understanding and agreement to all the provisions, including amendments in provisions, of the University.

Pokhara University
Bachelor of Architecture
Curriculum Structure (Revised- 2020)

S N	Course Code	Subject	Credit	Lecture	Tutorial	Practical	Pre-requisite
Year I		Semester I					
1	ASC 101	Mathematics	3	3	2	0	
2	HIS 171	Introduction to Architecture	2	2	0	0	
3	BLT 151	Building Materials	2	2	2	0	
4	PRS 111	Free Hand Sketching	3	0	0	6	
5	PRS 112	Basic Drafting	3	0	0	6	
6	PRS 113	Basic Design	5	0	0	10	
Year I		Semester II					
1	ASC 102	Communication Techniques	2	2	2	0	
2	ASC103	Statics and Dynamics	2	2	2	0	
3	VIS 121	Architectural Modeling	2	0	0	4	
4	VIS 122	Architectural Independent Studies	2	0	0	4	
5	PRS 114	Architectural Graphics	3	0	0	6	
6	ADS 131	Design Studio-I	5	0	2	10	
Year II		Semester III					
1	HIS 272	History of Architecture I (<i>Western & Eastern</i>)	3	3	1	0	
2	AES 241	Building Science I	2	2	1	0	
3	DTT 281	Design Theory I	2	2	0	0	
4	ASC 204	Structure I	2	2	2	0	
5	VIS 223	Structural Forms	2	0	0	4	
6	PRS 215	Computer Aided Design	3	0	0	6	
7	ADS 232	Design Studio II	5	0	2	10	<i>Basic Design</i>
Year II		Semester IV					
1	BLT 252	Building Construction I	3	2	1	2	
2	HIS 273	History of Architecture II (<i>Modern</i>)	2	2	1	0	
3	ASC 205	Structure II	2	2	2	0	
4	ASC 206	Surveying	3	2	1	2	
5	PRS 216	Computer Aided 3D Visualizations	2	0	2	4	
6	ADS 233	Design Studio III	5	0	2	10	<i>Design Studio-I</i>
Year III		Semester V					
1	ASC 307	Structure III	3	3	2	0	
2	BLT 353	Building Construction II	3	2	1	2	
3	AES 342	Landscape Architecture	3	2	0	2	
4	HIS 374	History of Architecture III (<i>Nepalese</i>)	3	2	0	2	
5	AEL 391	Elective I	2	0	0	4	
6	ADS 334	Design Studio IV	5	0	2	10	<i>Design Studio-II</i>
Year III		Semester VI					
1	AES 343	Building Science II	2	2	1	0	
2	AES 344	Settlement Planning	3	3	2	0	
3	BMP 361	Working Drawing and Detailing	2	0	2	4	
4	DTT 382	Design Theory II	2	2	0	0	
5	ASC 308	Building Services	3	2	2	2	
6	ADS 335	Design Studio V	5	0	2	10	<i>Design Studio-III</i>
Year IV		Semester VII					
1	BMP 462	Practicum (<i>Practical Office Experience</i>)	15	0	0	30	
Year IV		Semester VIII					
1	ASC 409	Estimation, Valuation and Specification	2	2	2	0	
2	BLT 454	Building Construction III	3	2	1	2	
3	AEL 492	Elective II	3	3	0	0	
4	VIS 424	Directed Studies and Seminar	2	0	0	4	
5	ADS 436	Design Studio VI	5	0	4	10	<i>Design Studio-IV</i>
Year V		Semester IX					
1	AEL 593	Elective III	3	2	0	2	
2	AES 545	Architects & Society	3	2	0	2	
3	ADS 537	Design Studio VII	5	0	2	10	<i>Design Studio-V</i>
4	DTT 583	Thesis- Part I	4	0	2	8	<i>Design Studio-VI</i>
Year V		Semester X					
1	BMP 563	Professional Practice	2	2	0	2	
2	DTT 584	Thesis: Part II	12	0	4	24	

Notes:

- *Credit hour has been calculated as THEORY =1 equals PRACTICAL =2 or vice-versa (PRACTICAL 2 = THEORY 1) and Credit Hour has been calculated accordingly in each subjects.*
- *Tutorial load has not been calculated in credit hour.*
- *Pre-requisite course has been defined as stated above(in Design Studio only)*

Elective Courses**Elective I**

- 1 Interior Design & Decoration
- 2 Programming in C
- 3 Gender in Architecture
- 4 Architectural Photography
- 5 Professional Communication Techniques

Elective II

- 1 Architectural Conservation
- 2 Urban Design
- 3 Green Building Design
- 4 Vernacular Architecture
- 5 Disaster Risk Management

Elective III

- 1 Environment Impact Assessment
- 2 Advanced Building Technology
- 3 Advance Structure
- 4 Entrepreneurship Development
- 5 Sustainable Architecture
- 6 Heritage Conservation