



Rajshahi University of Engineering & Technology  
**RUET**

# PROSPECTUS

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## Department of Architecture



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Faculty Members  
Department of Architecture  
Rajshahi University of Engineering & Technology

# PREFACE

It is of immense pleasure to introduce the first edition of the prospectus for undergraduate studies for the Bachelors of Architecture degree in the Department of Architecture, Rajshahi University of Engineering & Technology.

This prospectus outlines the details of the courses offered by this program together with a list of faculty members and the facilities available in the department.

Department of Architecture has marked it's beginning in the history of Rajshahi University of Engineering & Technology under the Faculty of Civil Engineering in 2013.

Rajshahi being one of the oldest cities in Bangladesh features a lineage of distinct heritage. Some of the famous archaeological and historical places include Mohasthanor, Paharpur Buddhist Monastery, Puthia Rajbari complex, Natore Rajbari, Dighapatia Rajbari, Kantajee's Temple, Ramshagar Dighi, Choto Sona Masjid etc. The Department of Architecture has strong principles of multidisciplinary collaboration & esteem for experimentation, rooted in the respective cultural and environmental context. The goal is to promote the cultural and social values inherent within the heritage as well as to guide and support the development in a planned way for the future generations on the horizon. To achieve this goal an advance architectural education has been designed here to bring out the best in students aspiring to enter the profession. The Department endeavours to install in the students a firm intellectual and analytical skill which will equip them to deal with the diverse aspects of the profession.

**Professor Dr. S. M. Zahurul Islam**

Head

Department of Architecture

Rajshahi University of Engineering & Technology

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# Chapter I

## **GENERAL INFORMATION**

## THE UNIVERSITY

Rajshahi University of Engineering & Technology is the second oldest University for the study of Engineering in Bangladesh. In order to create facilities for undergraduate and postgraduate studies and research, the Engineering College, Rajshahi established in 1964 was converted to BIT, Rajshahi in the year 1986 and later on BIT, Rajshahi was upgraded to Rajshahi University of Engineering & Technology (RUET) in 2003. With a view to meet the increasing demand for engineers in the country and to expand the facilities for advancement of engineering education, Engineering college, Rajshahi started functioning as a Faculty of Engineering under the University of Rajshahi offering a four years program for Bachelor Degree in Civil, Electrical and Mechanical Engineering.

## LOCATION

RUET campus spreading over 152 acres of land is located at about 3 kilometres east of Rajshahi city centre by the side of the mighty river the Padma and is adjacent to Rajshahi University. Famous for the production of silk and mango, the city of Rajshahi is well connected by roads and rail with other towns of Bangladesh. The average temperature of the city varies from 15 C to 40 C. Rickshaw, Auto-rickshaw, taxi and bus facilities are available to reach the campus from any place of the city.

## THE CAMPUS

RUET has a compact campus with departments, laboratories, workshops, library, auditorium, gymnasium, bank, cafeteria, central common room, halls of residence (for male and female students) and residential buildings for teachers and employees within walking distances of the academic building. Post-office is located in the same building. There is a school cum college in the campus in view of getting the proper education of the children of employees. A general store and a restaurant are also situated very near to the student halls. Varieties of plant and tree create a pleasant environment in the campus.

## FACILITIES OFFERED BY THE UNIVERSITY

### 1. Central Library

The central library building is located at the centre of university campus. As an integral component of the academic program, the Central Library provides the following services to the teachers and students.

- I. Issue and receipt of books
- II. Reading room facility
- III. Periodicals and Journal section.

## 2. Central Computer Center

The Central Computer Center provides computing support to undergraduate and postgraduate teaching and research application in all Departments. The center possesses networking facilities with Brand IBM PC's. This center also provides some useful software like C, C++, Visual Fox Pro, Oracle, Auto CAD Unix/ Linux, MS-DOS, MS-WORD, Excel, Fortran etc.

## 3. Medical Center

An on campus medical center provides primary and basic health care facilities to the students (residential and non-residential) free of charges. Full-time MBBS doctors, compounder and staffs provide these facilities to the students. For specialized consultation on complicated cases, the center refers the patients to specialist consultants.

## 4. Directorate of Students Welfare

The Directorate of Student's Welfare is responsible for the various activities related to the physical, social, cultural and other aspects of welfare of the students. These include arrangement of supervision for halls of residence, programs for physical education, games and sports, cultural weeks and other activities of the students through the central student's union and the students' unions of the various halls of residence. The central student's union, whose members are elected by the students, oversees the socio-cultural activities of the students and looks after the problems of the students. The students' unions of the various halls of residence also arrange their individual socio-cultural activities, literary competitions etc. and help the hall authority to run the halls smoothly.

## 5. Sports and Recreation Facilities

The athletic club of the University provides multi-purpose sports facilities to the students to acquire physical fitness indispensable for a healthy mind and body. The University maintains a beautiful playground for football, cricket, badminton, volleyball, tennis etc. A gymnasium within the University plays an important role to build up the health of the students which also avails indoor facilities. The athletic club arranges gorgeous annual sports every year. Parallel to the University, departments and students' unions of the halls of residence also arrange inter-class and inter-department football, cricket, basketball, and volleyball competitions every year.

## 6. Residential Accommodation

Campus life is an important aspect in the development process of students. In addition to provide services in assisting students in solving problems that affect their



studies, the University aims to create an environment conducive to cultural development and promotion of interaction among staff, students and intellectuals. For the accommodations of the students the University has five halls of residence. The total capacity of the halls is around 1900. Names of the halls with their capacities are listed below. Three halls are named after the national heroes who were the students of this University and sacrificed their lives in 1971 in the liberation war of Bangladesh. Other three halls were named after Bangabandhu Sheikh Mujibur Rahman, our present Prime Minister Sheikh Hasina and the Late President of our country Shahid Ziaur Rahman.

Sl. No	Halls of Residence	Capacity
1	Shahid Lt. Selim Hall	354
2	Shahid Shahidul Islam Hall	236
3	Shahid Abdul Hamid Hall	236
4	Tin Shed Hall	100
5	Desh Ratno Sheikh Hasina Hall	248
6	Shahid President Ziaur Rahman Hall	472
7	Bongobandhu Sheikh Mujibur Rahman Hall	270

The University provides accommodation facility for 75% of the students in these halls. Non-residential students are also required to attach with a hall, so that administrative control on students becomes hall-based. Depending on the size of the room, 2 to 4 students are accommodated in a room in these halls. Each hall has separate common room, reading room and other service facilities.

## MISSION & VISION OF THE DEPARTMENT OF ARCHITECTURE

Department of Architecture aims to become a unique and a leading institution for higher learning opportunities offering education, research and training in technology related to the field of Architecture. The broad objective of the department is to achieve international recognition for excellence in research and teaching, such that it is ranked as the top Architecture School in the country and thereby becoming the top choice of students and a prospective faculty for their career.

The department aims to achieve its vision by pursuing the following missions:

- To shape a critical thinker and problem solver based on fundamental knowledge of humanities, social sciences, mathematics, science, engineering and a broad range of Architectural perspective.
- To produce technically qualified Architects who will become leaders in the field of architecture and construction and who are committed to sustainable development for the betterment of society and nation.
- To build up sensitive decision makers who consider the global and social concern, ethics and sustainability while making critical decisions of building projects.

### **Methods of Instruction and Learning Environment**

This shall comprise of the following:

- Classes featuring lectures, demonstrations, relevant handouts and discussions by renowned professionals.
- Assignments related to the subjects requiring use of reference material and internet facility.
- Term projects, class presentation. Studio work, site visit, construction site survey and design exercises.

## **FACILITIES OFFERED BY THE DEPARTMENT OF ARCHITECTURE**

The Department of Architecture has a number of facilities to meet the requirements of undergraduate studies. These facilities include a library and a computer laboratory. The Department also has the following laboratories and workshops available for research, instruction and sessional classes:

1. Digital Fabrication Laboratory
2. Media Laboratory
3. Computer Laboratory
4. Environmental Simulation Laboratory
5. Interior Design and Material Laboratory
6. Exhibition Space
7. Archive Space
8. Design Studios

# FACULTY MEMBERS

## Head of the Department



### **Professor Dr. S. M. Zahurul Islam**

B. Sc. Engg. (RUET), M. Sc. Engg. (Universiti Putra Malaysia),  
Ph. D. (The University of Hong Kong)

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### **Field of Interest**

Structural Analysis and Design, Stainless Steel Structures, Steel Structures Analysis and Design, Thin-walled Structures, FRP Strengthening Steel Structures and Concrete Structures, Aluminium Structures, Structural Stability, Fire Resistance of Metal Structures, Cold-formed Steel Structures, Structural Engineering, Strength of Materials, Building Analysis & Design

## Assistant Professors



### **Md. Asaduzzaman**

B. Arch. (KU), MUD (HKU)

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### **Field of Interest**

Urban Design and Landscape: Healthy Cities and Communities, Smart Cities, Sustainable Urban Mobility (TOD, POD, active transportation), Landscape Architecture, Water Sensitive Urban Design, Community Based Design, Public Space Planning and Design, Outdoor Thermal Comfort and Reducing Air Pollution, Housing and Human Settlement: Peri-Urban, Rural Planning and Design, Real Estate Development. Religion, Islamic Architecture and Urbanism, Health Care and Institutional Project's Planning and Design.



**Md. Sabbir Ahsan**

B. Arch. (BUET), M. Arch. (BUET)  
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**Field of Interest**

Climate Change, Aesthetic and Design, Design Simulation



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**Field of Interest**

Bengal history, heritage & monument conservation, Low cost & affordable housing for urban poor community, Open green space planning & design, Architectural graphics and presentation



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M. Sc. in Sustainable Environmental Design in Architecture  
University of Liverpool  
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**Field of Interest**

Environmental Design and Sustainability, Vernacular Architecture and Built form Transformation, Materiality and Construction, Techniques for Environment Responsive Design, Place attachment and Placemaking concepts



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**Field of Interest**

Environmental Design



**Md. Samiul Sabbir Islam**

B. Arch. (KU)

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**Field of Interest**

Culture, Human Behaviour, Emerging Hybrid Art forms, Digital Art, and Popular culture, Graphic Design, Architectural Heritage, History and Architecture, Heritage of Bengal, Urban Design: Community Based Design, Tactical Urbanism, Social Role of Urban Spaces



**Md. Nazmul Hoda**

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**Field of Interest**

Conservation & Digital Heritage, Sustainable Architecture & Green Building Features, Urban Design & Sustainable Transportation, Housing & Rural Homesteads

## Lecturers



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**Field of Interest**

Art, Culture, Human Behaviour, Architectural graphics and presentation, Architectural Heritage, Conservation & Digital Heritage, Urban Design, Landscape Architecture, Public Space Planning and Design



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**Field of Interest**

Architectural Heritage & Conservation; Housing & Human Settlement; Urban Design



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**Field of Interest**

History, Theory and Criticism; Housing and Human Settlement; Sustainable Development and Vernacular Architecture

Chapter II

**ACADEMIC ORDINANCE FOR  
UNDERGRADUATE STUDIES FOR THE AWARD  
OF B. ARCH DEGREE**

# 1. DEFINITIONS

- 1.1 'University' means the Rajshahi University of Engineering & Technology abbreviated as RUET.
- 1.2 'Syndicate' means Syndicate of RUET. 'Academic Council' means the Academic Council of the University.
- 1.3 'Deans Committee' means the Executive Committee of concerned Faculty of the University.
- 1.4 'Academic Committee' means the Academic Committee for Undergraduate Studies of Department of the University.
- 1.5 'Vice-Chancellor' means the Vice-Chancellor of the University.
- 1.6 'Dean' means the Dean of the Faculty of the University.
- 1.7 'Head of the Department' means the Head of a Department of the University.
- 1.8 'Central Equivalence Committee' means the Central Equivalence Committee of the University.
- 1.9 'Degree' means the degree of Bachelor of Science in Engineering or Bachelor of Urban & Regional Planning or Bachelor of Architecture offered by the University.
- 1.10 'Course System' means pass or fail on course basis.
- 1.11 'Backlog Courses' means the failed courses after appearing at odd/even semester(s) examination.
- 1.12 'Short Semester' means a semester for conducting classes and examinations of Backlog course(s) at the end of 4th/5th year Backlog examination result.

# 2. FACULTIES

The University has four Faculties:

- i. Faculty of Civil Engineering (CE)
- ii. Faculty of Electrical & Computer Engineering (ECE)
- iii. Faculty of Mechanical Engineering (ME)
- iv. Faculty of Applied Science & Engineering (ASE)

## 2.1 Degree Awarding Departments

The University has the following Degree Awarding Departments under four Faculties:

- i) Department of Civil Engineering (CE)
- ii) Department of Electrical & Electronic Engineering (EEE)
- iii) Department of Mechanical Engineering (ME)
- iv) Department of Computer Science & Engineering (CSE)
- v) Department of Electronic and Telecommunication Engineering (ETE)
- vi) Engineering (ETE)
- vii) Department of Industrial and Production Engineering (IPE)
- viii) Department of Glass & Ceramic Engineering (GCE)



- ix) Department of Urban & Regional Planning (URP)
- x) Department of Mechatronics Engineering (MTE)
- xi) Department of Architecture (ARCH)
- xii) Department of Electrical & Computer Engineering (ECE)
- xiii) Department of Chemical & Food Process Engineering (CFPE)
- xiv) Department of Building Engineering & Construction
- xv) Management (BECM)
- xvi) Department of Material Science & Engineering (MSE)

Any other Department to be instituted by the Syndicate on the recommendation of the Academic Council.

## **2.2 Teaching Departments**

The University has the following teaching departments as defined in the statutes:

- i) Department of Civil Engineering
- ii) Department of Electrical & Electronic Engineering
- iii) Department of Mechanical Engineering
- iv) Department of Computer Science & Engineering
- v) Department of Electronic and Telecommunication Engineering
- vi) Department of Industrial and Production Engineering
- vii) Department of Glass & Ceramic Engineering
- viii) Department of Urban & Regional Planning
- ix) Department of Mechatronics Engineering
- x) Department of Architecture
- xi) Department of Electrical and Computer Engineering
- xii) Department of Chemical & Food Process Engineering
- xiii) Department of Building Engineering & Construction Management
- xiv) Department of Material Science & Engineering
- xv) Department of Mathematics
- xvi) Department of Physics
- xvii) Department of Chemistry
- xviii) Department of Humanities

Any other Department to be instituted by the Syndicate on the recommendation of the Academic Council.

### 3. DEGREES OFFERED

The University offers courses leading to the award of the following degrees:

- i) Bachelor of Science in Civil Engineering abbreviated as B.Sc. Engg. (CE).
- ii) Bachelor of Science in Electrical & Electronic Engineering abbreviated as B.Sc. Engg. (EEE).
- iii) Bachelor of Science in Mechanical Engineering abbreviated as B.Sc. Engg. (ME).
- iv) Bachelor of Science in Computer Science & Engineering abbreviated as B.Sc. Engg. (CSE).
- v) Bachelor of Science in Electronic & Telecommunication Engineering abbreviated as B.Sc. Engg. (ETE).
- vi) Bachelor of Science in Industrial and Production Engineering abbreviated as B.Sc. Engg. (IPE).
- vii) Bachelor of Science in Glass & Ceramic Engineering abbreviated as B.Sc. Engg. (GCE).
- viii) Bachelor in Urban & Regional Planning abbreviated as BURP.
- ix) Bachelor of Science in Mechatronics Engineering abbreviated as B.Sc. Engg. (MTE).
- x) Bachelor in Architecture abbreviated as B. ARCH.
- xi) Bachelor of Science in Electrical & Computer Engineering abbreviated as B.Sc. Eng. (ECE).
- xii) Bachelor of Science in Chemical & Food Process Engineering abbreviated as B.Sc. Eng. (CFPE).
- xiii) Bachelor of Science in Building Engineering & Construction Management abbreviated as B.Sc. Eng. (BECM).
- xiv) Bachelor of Science in Material Science & Engineering abbreviated as B.Sc. Eng. (MSE).

Any other degree that may be awarded by any department on the approval of the syndicate on the recommendation of the Academic council.

### 4. STUDENT ADMISSION, EQUIVALENCE AND ADMISSION TRANSFER

- 4.1 The four academic years of study for the Bachelor degree have been designated as 1st year class, 2nd year class, 3rd year class and 4th year class in succeeding higher levels of study. For Architecture, five years of study for the Bachelor degree have been designated as 1st year class, 2nd year class, 3rd year class, 4th year class and 5th year class in succeeding higher levels of study. Students shall be admitted into the 1st year class.

- 4.2 The Academic Council will form an Admission Committee in each academic session for admission into 1st year Bachelor Degree class.
- 4.3 For getting admission into the 1st year class a candidate must have passed the H.S.C Examination from a Secondary and Higher Secondary Education Board in Bangladesh (after 12 years of schooling) with Physics, Chemistry, Mathematics and English as his/her subjects of Examination in Higher Secondary level or examination recognized as equivalent thereto, and must also fulfil all other requirements as prescribed by the Academic Council on the recommendation of the Admission Committee. In case of confusion regarding the equivalence, the case may be referred to Equivalence Committee.
- 4.4 All candidates for admission into the courses of Bachelor Degree must be the citizens of Bangladesh. Candidates for all seats except the reserved (Tribal) ones, if any, are selected on the basis of merit. However, all candidates must pass the required level as set by the admission committee. The Academic Council, on the recommendation of the Admission Committee, frames the rules for admission into the reserved seats.
- 4.5 No student ordinarily is admitted in the 1st year class after the corresponding classes start or after the call goes out for admission into the next session, whichever is earlier.
- 4.6 Admission of a newly admitted student in the 1st year class is cancelled if he/she fails to attend any class within the first two consecutive cycles after the start of class without prior permission. The date of commencement of classes for the newly admitted students will be announced in advance.
- 4.7 An Equivalence Committee consisting of at least five members will be formed by the Academic Council in order to consider the equivalence of different public examinations.
- 4.8 A candidate, seeking admission on transfer from other University, should apply to the Registrar of the University if there is any exchange program with that university. The Registrar will refer the case to the concerned Head of the Department and also to the Equivalence Committee. On receiving the opinions of the Head of the Department and of the Equivalence Committee, the matter will be forwarded to the Academic Council. The Academic Council's decision will be communicated to the Head of the Department and the candidate.
- 4.9 There is no transfer in the 1st year class. In special cases, students may be admitted into a higher class under clause 4.8.
- 4.10 Every student being admitted to the University shall be examined by a competent medical officer as prescribed in the admission rules.

## 5. METHOD OF COURSE OFFERING AND INSTRUCTION

The undergraduate curricula at RUET are based on course system. The salient features of course system is:

- I. Number of theoretical courses and examination papers shall be five in each semester.
- II. Continuous evaluation of student's performance.
- III. The flexibility to allow the student to progress at his/her own pace depending on his/her ability or convenience, subject to the regulations on credit and minimum grade point average (GPA) requirements.

Promotion of teacher-student contact.

## 6. ACADEMIC CALENDAR

- 6.1 The academic year is ordinarily divided into two semesters each having duration of not less than 13 cycles.
- 6.2 There are final examinations at the end of each semester conducted by the respective degree awarding departments of the University.
- 6.3 On the approval of the Academic Council an academic schedule for the year will be announced for general.

The schedule may be prepared according to the following guidelines:

<b>Odd Semester</b>	<b>Duration</b>
Classes	13 cycles
Mid-semester recess	1 week
Recess before examination and Semester Final Examination	29 Days
Inter-Semester Recess	1 week
<b>Even Semester</b>	<b>Duration</b>
Classes	13 cycles
Mid-semester recess	1 week
Recess before examination and Semester Final Examination	29 Days
Inter-Semester Recess	1 week
Inter-Year Recess, Result publication, and Preparation for next semester	3 weeks

Backlog Examination	2 Weeks
Result publication	1 Week
Vacation and others	Rest
<b>Total</b>	<b>52 Weeks</b>

<b>Short Semester</b>	<b>Duration</b>
Classes and Examinations	10 weeks

## 7. DURATION OF COURSE AND COURSE STRUCTURE

- 7.1 Bachelor Degree courses (except Architecture) extend over a period of four academic years (8 semesters), each of a normal duration of one calendar year, which is divided as necessary for the purpose of academic program and conduct of examinations. For Bachelor degree in Architecture, the period will be five academic years (10 Semesters).
- 7.2 The curricula of the Bachelor degree in the different departments are as proposed by the respective Academic and Dean's Committee and approved by the Syndicate on the recommendation of the Academic Council.
- 7.3 The Academic Committee reviews the curricula as required and put forward suggestions to the Academic Council through Dean's Committee.
- 7.4 Teaching for the courses is reckoned in credits and the credits allotted to various courses are determined by the Academic Committee with the following guidelines:

<b>Nature of Course</b>	<b>Contact hour</b>	<b>No. of Credit</b>
i) Theory	1 hour/week	1
ii) Tutorial	1 hour/week	1
iii) Independent sessional/design	3/2 hours/week	0.75
	2 hours/week	1
	3 hours/week	1.5
	and similar	
iv) Project & thesis	3 hours/week and similar	1.5
v) Field work	2-4 weeks of field work	1

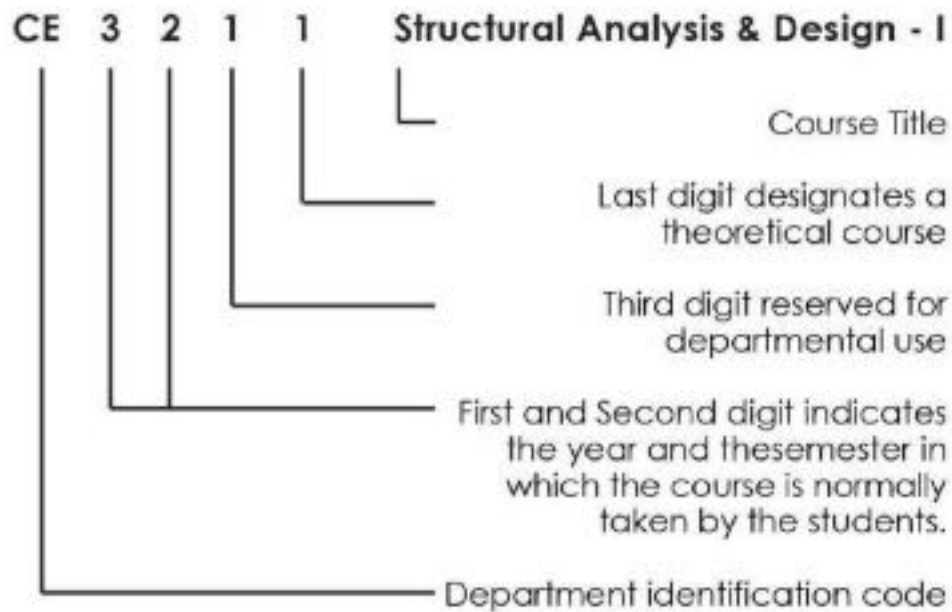
- 7.5 The total number of credits that a student has to complete successfully for the award of Bachelor degree is minimum 160 except for Bachelor in Architecture. The maximum period of candidature is seven years, i.e., 3 years (6 semesters) more than the normal time required to complete the course. For Architecture the minimum credit will be 200.
- 7.6 The total number of credits per week in a semester shall be as approved curricula.
- 7.7 The total contact hours for students including lecture, tutorial and sessional is around 25 (35 for Architecture) periods per week, each period being of minimum 50 minutes duration.
- 7.8 In each degree-awarding department, one of the senior teachers nominated by the Head of the Department acts as Course Coordinator who acts as Member Secretary to the academic committee.
- 7.9 A course plan for each course, approved by the Course Coordinator, showing details of lectures may be announced at the start of each semester.
- 7.10 Credits in any theory subject do not exceed 4 and that in sessional subject do not exceed 3.0. For Architecture credits in sessional subject will not exceed 12.0.

## 8. COURSE DESIGNATION AND NUMBERING SYSTEM

Each course is designated by a two to four letter word identifying the department which offers it following by a three-digit number with the following criteria:

- a. The first digit corresponds to the year in which the course is normally taken by the students.
- b. The second digit reserved for departmental use indicating major area.
- c. The 3rd digit is usually odd for theoretical and even for laboratory or sessional courses.

The course designation system is illustrated by one example as shown below:



## 9. TYPES OF COURSES

The courses included in undergraduate curricula are divided into several groups as follows:

- 9.1 **Core Courses:** In each discipline a number of courses are identified as core courses which form the nucleus of the respective bachelor's degree program. A student has to complete all of the designated core courses for his discipline.
- 9.2 **Pre-requisite Courses:** Some of the core courses are identified as pre-requisite courses. A pre-requisite course is one, which is required to be completed before some other course(s) can be taken. Any such course, on which one or more subsequent courses build up, may be offered in each of the two regular semesters.
- 9.3 **Optional/Elective Courses:** Apart from the core course students have to complete a number of courses which are optional in nature. In that, students have some choice to choose the required number of courses from a specified group/ number of courses.

## 10. DEPARTMENTAL MONITORING COMMITTEE AND STUDENT ADVISER

- 10.1 Department monitoring committee: Each department constitutes a Departmental Monitoring Committee with two teachers from the respective Department as members, nominated by the Academic Committee and Head of the Department as chairman. This committee monitors and evaluates the performance of the Course System within the Department. The committee may also propose from time to time to the Academic Committee if any changes and modifications needed for upgrading/changing the Undergraduate Curriculum and the Course System.
- 10.2 Student Adviser: One adviser is appointed for a batch of student (around 30) by the Department Monitoring Committee of the concerned Department(s) who advises each student on the courses to be taken by a student. Adviser discusses with the student on his academic program and then decides the nature of courses for which he/she can register. However, it is the student's responsibility to keep contact with his adviser who reviews and eventually approves the student's specific plan of study and checks on subsequent progress. The adviser generally be of the rank of an Assistant Professor or above from the concerned Department(s). However, in case of shortage of teachers, Lecturers may be appointed as adviser.

For a student of second and subsequent semesters, the nature of courses for which he can register will be decided on the basis of his/her academic performance during the previous semester(s). The adviser advises the students to register for the courses during the next semester within the framework of the guidelines in respect of minimum/maximum credit hour limits.

## 11. REGISTRATION REQUIREMENTS

Any student who wants to study a course is required to register formally. Being admitted to the University, each student is assigned to a student adviser. The student can register for courses he/she intends to take during a given semester only on the basis of the advice and consent of his/her adviser.

- 11.1 Registration Procedure: Students must register for each class in which they will participate. Each student will fill up his/her Course Registration Form in consultation with and under the guidance of his/her adviser. The original copy of the Course Registration Form(s) will be submitted to the



Registrar's Office, and then the requisite number of copies will be distributed to the adviser and Head. The date, time and venue for registration will be announced in advance by the Department's Office. It is absolutely necessary that all students present themselves for registration at the specified time.

- 11.2 Limits on the Credit Hours to be taken: A student must be enrolled for the requisite number of credits as mentioned in article 7.6. A student must enrol for the prescribed sessional courses in the respective semester within the allowed credit limits.
- 11.3 Pre-condition for Registration: A student will be allowed to register in those courses subject to the satisfaction of pre-requisite courses. If a student fails in a pre-requisite course in any semester, the concerned Department Monitoring Committee may allow him/her to register for a course which builds on the pre-requisite course provided his attendance and grades in continuous assessment in the said pre-requisite course is found to be satisfactory.

Registration will be done at the beginning of each semester. Late registration is however, permitted during the second week on payment of a late registration fee. Students having outstanding dues to the University or a hall of residence shall not be permitted to register. All students have therefore, to clear their dues and get a clearance or no dues certificate, on the production of which, they will be given necessary Course Registration Forms and complete the course registration procedure. Registration Forms are normally available in the Registrar's office. An orientation program will be conducted for only the first-year students at the beginning of the first semester when they will be handed over the registration package on producing enrolment slip/proof of admission.

- 11.4 Registration Deadline: Student must register for the courses to be taken within 1(one) cycle from the commencement of each semester and no late registration will be accepted after 2(Two) cycles of classes. Late registration after this date will not be accepted unless the student submits a written appeal to the Registrar through the concerned Head and can document extraordinary circumstances such as medical problems (physically incapacitated and not able to be presented) or some other academic commitments which precluded enrolling prior to the last date of registration.
- 11.5 Penalty for Late Registration: Students who fail to register during the designated dates for registration are charged a late registration fee Tk 500/= per cycle. This extra fee will not be waived whatever be the reason for late registration.

- 11.6 Withdrawal from a Semester: If a student is unable to complete the semester Final Examination due to illness, accident or any other valid reason etc., he/she may apply to the Head of the department. Each Department will decide for total withdrawal from the semester before the start of the semester final examination. He/she may choose not to withdraw any laboratory/sessional/design course if the grade obtained in such a course is 'D' or better. The application must be supported by a medical certificate from any authorized Medical Officer. The Academic Council will take the final decision about such applications. However, he/she will not be permitted to the next year class unless he/she completes the required credit for that year.

## 12. STRIKING OFF THE NAMES AND READMISSION

- 12.1 The names of the students shall be struck off and removed from the rolls on the following grounds:
- Non-payment of University fees and dues within the prescribed period.
  - Forced to discontinue his/her studies under disciplinary rules.
  - Withdrawal of names from the rolls of the University on grounds acceptable to the Vice-Chancellor of the University/ nominated authority after having cleared all dues.
  - Could not earn required credits for graduation as outlined in the respective curriculum and/or fulfill CGPA requirement within the maximum allowed time of 7 academic years. For Architecture maximum allowed time is 8 academic years.
- 12.2 Every student whose name has been struck off the rolls by exercise of the clauses (ii) of Article 13.1 seeking re-admission after expiry of the period for which he/she was forced to discontinue his/her studies, shall submit an application to the Head of the Department in the prescribed form before the commencement of the session to which he/she seeks re-admission. The Head of the Department shall forward the application to the Registrar of the University with his remarks. In case the readmission is allowed, the student will be required on payment of all dues to get him/her-self admitted no later than one week from the date of permission given by the Registrar. All readmission should preferably be completed before the session starts. The percentage of attendance of the re-admitted students shall be counted from the date of recommendation of the concerned Head of the department.

- 12.3 No student who has withdrawn his/her name under clause (c) of Article 13.1 shall be given readmission.
- 12.4 In case, a student whose name has been struck off the rolls under clause (a) of Article 13.1 seeks readmission within the session in which his/her name was struck off, he/she shall be readmitted on payment of all the arrears fees and dues. But if he/she seeks readmission in any subsequent session, the procedure for his/her readmission will be the same as described under Article 13.2.
- 12.5 The application of a student for readmission will be considered if he/she applies within two academic sessions from the semester of discontinuance of his/her studies in the
- 12.6 University. Other than debarment as punishment under the ordinance related to discipline, a student failing for any other reason whatsoever to become a candidate for a semester final examination in which he/she ought to have had in the usual process of his/her progressive academic activities, shall be considered to have discontinued his/her studies for the relevant semester together with striking the name off from current roll and two such discontinuance periods will be considered equivalent to that for one academic session. The maximum period of discontinuance under no circumstances is to exceed two academic sessions during a student's period of studies for the degree.
- 12.7 In case any application for readmission is rejected, the student may appeal to the Academic Council and, in this case, the decision of the Academic Council shall be final.
- 12.8 A student, whose name has been struck off the rolls by exercise of clause (iv) of Article 13.1, is not eligible to seek readmission.
- 12.9 After Short semester, if any student fails to complete his/her required courses he/she will take readmission in the final year.

## 13. GRADING SYSTEM

The letter grade system shall be used to assess the performance of the student and shall be as follows:

Numerical grade	Letter grade	Grade point
80% or above	A+ (A Plus)	4.0
75% to less than 80%	A (A Regular)	3.75
70% to less than 75%	A- (A Minus)	3.5
65% to less than 70%	B+ (B Plus)	3.25
60% to less than 65%	B (B Regular)	3.0
55% to less than 60%	B- (B Minus)	2.75
50% to less than 55%	C+ (C Plus)	2.5
45% to less than 50%	C (C Regular)	2.25
40% to less than 45%	D	2.0
Less than 40%	F	0
Incomplete	I	-
Need to register again X	X	-

A grade 'I' shall be awarded for courses (like project & thesis, design etc.) in the odd semester, which continue through to the even semester.

- 13.1 Calculation of GPA and CGPA: Grade point average (GPA) is the weighted average of the grade points obtained in all the courses passed/completed by a student in a semester. 'F' grades will not be counted for GPA calculation. GPA of a semester will be calculated as follows:

$$GPA = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

where,

$n$  is the total number of courses passed by the student,

$C_i$  is the number of credits allotted to a particular course  $i$  and

$G_i$  is the grade point corresponding to the grade awarded for  $i$ -th course.

The overall or Cumulative Grade Point Average (CGPA) gives the cumulative performance of the student from first semester up to any other semester to which it refers and is computed by dividing the total grade points ( $\sum C_i G_i$ ) accumulated up to the date by the total credit hours ( $\sum C_i$ ). Both GPA and CGPA are rounded off to the second place of decimal for reporting.

## 14. DISTRIBUTION OF MARKS

14.1 The distribution of marks for a given course is as follows

<b>i) Theory Courses</b>	
Class participation and attendance	10
Class tests	20
Assignment/ Project/ Viva-voce/ Presentation others	10
Semester Final Examination (3 hours duration)	60
<b>Total</b>	<b>100</b>

<b>ii) Independent sessional/ design/ field work courses:</b>	
Class participation and attendance	10
Quizzes/ viva voce	20
Board Viva (Compulsory)	25
Lab Performance/ Reports, Lab finals, Presentation/ Viva others.	45
<b>Total</b>	<b>100</b>

<b>iii) Project and thesis (Architecture):</b>	
Class participation and attendance	10
Internal criticisms	40
Board Viva/ Jury	30
Supervisor (Internal Examiner)	20
<b>Total</b>	<b>100</b>

<b>iv) Project and thesis (Other departments):</b>	
Viva voce (conducted by a viva voce committee)	30
Supervisor (internal examiner)	50
External examiner (any other teacher of the department/ Examination committee)	20
<b>Total</b>	<b>100</b>

- 14.2 Basis for awarding marks for class participation and attendance will be as follows:

Attendance	Marks
90% and above	10
85% to less than 90%	9
80% to less than 85%	8
70% to less than 80%	7
60% to less than 70%	6
50% to less than 60%	5
Less than 50%	0

- 14.3 The students will not be allowed to sit in the semester final examination for failing to attend at least 50% in the classes. The students whose percentage of attendance will fall short of 75% in any of the theory, sessional courses for which he/she has registered in one academic year shall not be eligible for the award of any type of scholarship/stipend/grant for the following academic session.

## 15. CLASS TESTS

- 3 best out of 4 class tests may be taken for awarding grade.
- Duration of class tests normally should be 20-30 minutes and materials covered should be what were taught in 2 to 3 previous cycles or most recent classes.

- iii. The dates for the class tests shall be fixed by the Head or Course Coordinator and dates shall be announced accordingly.
- iv. All class tests shall ordinarily be of equal value. The result of each individual class test shall be posted for information of the students preferably before the next class test is held.

## 16. EARNED CREDITS

The courses in which a student has obtained 'D' or a higher Grade will be counted as credits earned by him/her. Any course in which a student has obtained 'F' grade will not be counted towards his/her earned credits.

A student, who obtains a 'F' grade in any Core Course in any semester, he/she will have to repeat the course. If a student obtains a 'F' in an Optional Course, he/she may choose to repeat the course or take a substitute course if available. 'F' grades will be considered as backlog courses. 'F' grades will not be counted for GPA calculation but will stay permanently on the Grade Sheet and Transcript. A student obtaining D grade in a course will be allowed to repeat the course for the purpose of grade improvement if CGPA of the student falls below 2.20. In such case he/she will be awarded the new grade thus he/she obtains or retains his/her previous grade if he/she fails.

## 17. PERFORMANCE EVALUATION

- i. The minimum CGPA requirement for obtaining a B.Sc. Engineering degree is 2.20. The performance of a student will be evaluated in terms of two indices, viz. Semester grade point average and cumulative grade point average.
- ii. Students will be allowed to sit in Backlog examination for maximum 3 courses (in same year) in an academic year. However only 4th year students are allowed to choose 3 courses from his/her Backlog course(s).
- iii. Students must complete minimum 33 credits (Odd, even semesters and Backlog examination) in each academic year for promotion to the next academic year.

## 18. HONORS, VC'S LIST AND UNIVERSITY GOLD MEDAL

- 18.1 **Honours:** Candidates for Bachelor's degree will be awarded the degree with honours if their CGPA is 3.75 or above and will be called as First Class with Honours.
- 18.2 **Class:** Candidates having CGPA 3.00 or above and less than 3.75 will be called as First Class and Candidates having CGPA 2.20 or above and less than 3.00 will be called as Second Class.
- 18.3 **VC's List:** In recognition of excellent performance, the names of students who maintain good standing with the University obtaining SGPA of 3.75 or above in two regular semesters in each academic year may be published in the VC's List in each department. Students who have received F grade in any course during any of the two regular semesters will not be considered for VC's List in that year.
- 18.4 **University Gold Medal:** If a student can show extraordinary brilliance and obtains all A or better grades in all the courses, he/she attended and fulfils the credit requirement for graduation will be honoured by awarding University gold medal in a special function/convocation.

### STUDENT CLASSIFICATION

The regular students are classified according to the number of credit hours earned towards a degree shown in the following table:

Year	Earned Credits
First Year	0 to 33
Second Year	34 to 66
Third Year	67 to 99
Fourth Year	100 and above/ For Architecture 100 to 132
Fifth Year (Architecture)	133 and above (Arch)

A student must earn minimum 33 credits in each academic year for promotion into the next year class.



## 19. REGISTRATION FOR THE SECOND AND SUBSEQUENT SEMESTERS

A student is normally required to register courses according to the approved curricula in each semester. After odd semester final examination, Students will normally register courses in even semester.

After even semester final examination, students provisionally register courses for the odd semester in next academic year. If he/she fails to complete 33 credits in odd, even and backlog examinations for that academic year, his/her registration will be cancelled and he/she will not be promoted to next academic year. He/she then register courses in the previous academic year.

## 20. MEASURES FOR ACADEMICALLY WEAK STUDENTS

The following provisions are made in order to help academically weak students to enable them to complete their studies within the maximum period of seven years. Adviser will keep special contact for all such students

- i. Whose Cumulative grade point average (CGPA) is less than 2.20 at the end of a semester.
- ii. Fails to complete 33 credits in an academic year.

## 21. BACKLOG EXAMINATION

There will be Backlog Examination after the publication of result of Even semester examination.

- i. 'F' grade(s) obtained after semester examination will be considered as backlog course(s).
- ii. Students are allowed to sit for maximum 3 backlog courses in odd and/or even semester(s).
- iii. Class test marks of Backlog courses in odd/even semester(s) will be counted for Backlog examination.
- iv. Maximum B (B regular) grade will be counted in Backlog examination.

**Backlog Courses:** The course(s) which a student registered in a Semester but after Semester examination he/she obtained 'F' grade in that course(s).

## 22. SHORT SEMESTER EXAMINATION

The Short Semester Examination on only backlog courses may be conducted for the students who have participated in their 4(four)/5(Five) year degree course (up to 4th /5th year backlog examination) and have a shortage of maximum 5 (Five) incomplete courses including sessional, project and thesis to obtain Bachelor degree. The short semester examination will be arranged in a convenient time by the Head of the Department within 10 weeks of the publication of results of the final year backlog examination. The evaluation system will be the similar as regular semester. The students willing to appear at the short semester examination have to apply to the Head of the Department and with his permission must register within 7(seven) working days of publication of final year Backlog examination results. A student who has failed in the short semester examination will need to register backlog course(s) in the regular semester. Student(s) will be allowed to register for short semester only one time in his academic life. Maximum grade B+ (B plus) will be counted in short semester examination.

## 23. MINIMUM EARNED CREDIT AND GPA REQUIREMENTS FOR OBTAINING DEGREE

Minimum credit requirements for the award of Bachelor Degree will be recommended by the respective Academic Committee to the Academic Council. The minimum CGPA requirements for obtaining a Bachelor Degree are 2.20.

## 24. TIME LIMITS FOR COMPLETION OF BACHELOR'S DEGREE

A student must complete his/her studies within a maximum period of seven years for 4-year bachelor degree and eight years for 5-year bachelor degree.

## 25. INDUSTRIAL/PROFESSIONAL TRAINING REQUIREMENTS

Depending on each Department's own requirement a student may have to complete a prescribed number of days for industrial/professional training as mentioned in the course curricula.

## 26. APPLICATION FOR GRADUATION AND AWARD OF DEGREE

A student who has fulfilled all the academic requirements for bachelor's degree will have to apply to the Registrar/VC through his/her Adviser for graduation. Provisional degree will be awarded on completion of Credit and GPA requirements. Such provisional degrees will be confirmed by the academic council.

## 27. INCLUSION OF REPEATERS FROM THE PRESENT SYSTEM TO THE NEW COURSE SYSTEM

Repeater students will be included in the course system of curricula as and when such situation will arise. Equivalence of Courses and Grades (if required) will be done by Academic Council with recommendation by the respective Academic and Dean Committee.

## 28. ABSENCE DURING SEMESTER

A student should not be absent from quizzes, tests etc. during the semester. Such absence will naturally lead to reduction in points/marks, which count towards the final grade. Absence in semester final examination will result in 'F' grade and that course will not be counted as backlog course.

A student who has been absent for short period, up to a maximum of three weeks due to illness, should approach the course teacher(s) or the course coordinator(s) for a make-up quizzes or assignments immediately on returning to the classes. Such request should be supported by medical certificate from university medical officer. The medical certificate issued by a registered medical practitioner (with the registration number shown explicitly or the certificates) will also be acceptable only in those cases where the student has valid reason for his/her absence from the University.

## 29. SPECIAL INSTRUCTIONS

1. Students will not be allowed to enter the examination hall after half an hour from the start of the final examination(s).
2. Students will not be allowed to leave the exam hall before completion of one hour from the start of examination.
3. Students are not allowed to keep any electronic device unless it is officially permitted.
4. Students normally will not be allowed to go outside the exam hall during examination.
5. Students will be under Ordinance related to discipline for any unfair means as laid out.

## Chapter III

# **ORDINACE RELATED TO DISCIPLINE**

(Approved in 72<sup>nd</sup> Syndicate Meeting held on 02/01/2015 and  
Confirmed in 73<sup>rd</sup> Syndicate Meeting held on 21/03/2015)

## GENERAL DISCIPLINE

1. There shall be a Board of Discipline to supervise and control the discipline of the students of the university
2. The Board shall consist of the following members
  - a. Under-Graduate (UG)
 

(i) Vice-Chancellor	–Chairman
(ii) Pro Vice-Chancellor	–Member
(iii) All Deans	–Member
(iv) Heads of all undergraduate degree awarding Departments	–Member
(v) One Head from Faculty of Applied Science and Engineering to be nominated by the Vice-chancellor	–Member
(vi) Controller of Examination	–Member
(vi) Provosts of Halls of Residence	–Member
(vii) Director (Students Welfare)	–Member Secretary
  - b. Post-Graduate (PG)
 

(i) Vice-Chancellor	–Chairman
(ii) Pro Vice-Chancellor	–Member
(iii) All Deans	–Member
(iv) Heads of all Postgraduate Degree awarding Departments	–Member
(v) Director (Research & Extension)	–Member
(vi) Controller of Examination	–Member
(vii) Provosts of concerned Halls of Residence	–Member
(viii) Director (Students Welfare)	–Member Secretary
3. One-third members shall form a quorum. The term of the nominated member shall be of two years.
4. All incidents which appear to the acts of indiscipline and misconduct committed by any student including immediate action taken, if any, shall be reported to the Vice-chancellor by/through the Director (Student Welfare) in respect of indiscipline and misconduct in the Halls of Residence and their premises and by the Head of Department in respect of indiscipline and misconduct in the class rooms, laboratories, workshops, all parts of the academic premises and any other

place in the campus, and by the invigilator through the chief Invigilator (for UG)/ Invigilator (for PG) in respect of indiscipline and misconduct in examination halls, and by the person concerned from among the students and employees of the university in respect of the misconduct committed outside the university campus.

5. A student, who neglects his studies, disobeys and or denounces orders, rules and regulations, ordinances, statutes of the university, shows misbehavior towards the members of the staff or officers of the university or commits any other offence which will be deemed by the Vice-chancellor or Director (Students Welfare) or teachers of the university as misconduct and breach of discipline, will be liable to disciplinary action which may range from warning, imposition of fines, suspension to expulsion for good from the university depending on the magnitude of the offence as will be deemed fit by the authorities competent to take disciplinary action as defined in Section 6.
6. Authorities to take disciplinary action with their respective powers to the extent to which they can impose punishment on any student or group of students are:

Authorities for taking disciplinary actions	Power	Appellate Authority
(1)	(2)	(3)
Board of Discipline	Warning, imposing fine, suspension for any length of time, expulsion for good.	Academic Council
Vice-Chancellor	Warning, imposing fine, Suspension upto six months	Board of Discipline
Director (Students Welfare)	Warning, imposing fine upto 1000/-, suspension and expulsion from the Halls	Vice-Chancellor
Provosts (On resident or attached student of his hall of residence)	Warning, imposing fine upto 500/-, suspension and expulsion from the Halls for a period of one academic year.	Director (Students Welfare)
Head of Department (On students of his Department)	Warning, imposing fine upto 1000/- with a report to Director, Students Welfare for record.	Vice-Chancellor

7. If the Vice-Chancellor feels that the action taken against a student or a group of students (by any of the above authorities other than Board of Discipline) on an offence brought to him is not appropriate or that no action has been taken on any offence observed by him, he will take appropriate disciplinary actions against a student or a group of students. If however; in any case of breach of discipline the Vice-Chancellor is of the opinion that a punishment more than a suspension of six months is required he shall refer the matter to the Board of Discipline for a decision.
8. A student or a group of students against whom an action has been taken by appropriate authority mentioned in column (1) of Section 6 may prefer an appeal to the appropriate appellate authority mentioned in column (3) of Section 6.
9. The Director (Students Welfare) will be responsible for enforcement of the disciplinary action taken against a student or a group of students. He shall maintain a register and shall record therein all actions taken against a students for indiscipline and misconduct and also shall record in all character certificates issued by the Director (Students Welfare) to offenders, those actions taken against them it so indicated by the Vice Chancellor and the Board of Discipline unless allowed to be expunged/condoned by the Vice-Chancellor prayer from the offenders.
10. Character certificates issued by the Director (Students Welfare) shall be produced by the students when the teachers and the Registrar of the University are requested for character certificate.

## DISCIPLINE AT EXAMINATION

11. The chief Invigilator (for UG)/ Invigilator (for PG) shall be responsible for maintenance of discipline in the examination Halls
12. An invigilator on duty in examination hall shall report to the chief Invigilator (for UG)/ Head of the department (for PG) in case of breach of discipline in the examination hall. The Chief Invigilator (for UG)/ Head of the department (for PG) may expel the examinee concerned from the hall debarring him from appearing in that particular examination.
13. Breach of discipline in the examination halls shall be reported by the invigilator through the Chief Invigilator (for UG)/ Head of the department (for PG) to the Vice-Chancellor.
14. The candidates shall strictly follow the following instructions.
  - (i) Candidates are forbidden to write their names on the cover or any part of the answer script. If any candidate does so, his answer script will not be assessed.
  - (ii) Each candidate must write legibly his Examination Roll Number on the cover of scripts. If any candidate omits to write his Examination Roll Number and Registration Number on the cover of his answer script, the paper may not be assessed.
  - (iii) When more than one answer script is used each additional script should be stitched to the first script immediately after it is supplied, and the



Examination Roll Number and Registration Number should also be written by the candidate on the cover of the additional script or scripts immediately.

- (iv) No additional paper will be provided for scribbling, and no paper is to be brought in for this purpose. Any candidate found with additional paper in his possession will be expelled from the examination hall. All works must be done in the scripts provided and pages must not be torn out. The scripts provided and pages must not be torn out. The scripts provided must be submitted. It cannot be replaced by another, but, If necessary, additional scripts will be given. All works intended for assessment by the examiner should be written on both sides of the paper.
  - (v) Candidates are forbidden to write anything whatsoever on the question paper.
  - (vi) In any matter not specially mentioned in these rules, candidates are required to abide by the decision of the invigilator in the examination hall.
  - (vii) No candidate will be allowed to enter the examination hall after 30 minutes has elapsed from the time the question papers are given out.
  - (viii) No candidate will be allowed to leave the examination hall until one hour has elapsed from the time the question papers are given out.
15. Disciplinary action will be taken against candidates reported to have violated the instructions under Section 4 or resorted to unfair means and /or acts of indiscipline at the different examination as follows–
- (i) Attempts to communicate with other examinee or examinees in the examination hall: first time– warning which may be accompanied by a change of seats; second time– deduction of 5% of the total marks of paper; third time– expulsion from the examination hall for that paper.
  - (ii) Possession of writings related to the particular subject of examination or copying from any other source: expulsion from examination hall and cancellation of that examination and expulsion from the university for one to two years. Writings in the person of the examinee or in his apparels, in papers, drawing instruments, scales and electronic gadgets etc. found with him or off or near the desk, bench or chair will be considered as writings in possession of the examinee.
  - (iii) Use of violent language and holding out threats to examiners and invigilators: expulsion from the whole examination and/or expulsion from the university for good.
  - (iv) Attempts to get possession of the question paper or examination scripts before the examination: expulsion from the whole examination and expulsion from the university for one to two years.
  - (v) Writings on additional papers not related to the examination (viz. blotting paper, question paper etc.) : seizure of the writings and cancellation of the answer script and expulsion from the examination hall.
  - (vi) Attempts to influence the examiner; cancellation of the paper.

- (vii) Impersonating or causing impersonate in the examination hall: cancellation of the whole examination and expulsion from the university for good.
  - (viii) Insertion in the examination script, answer to any question or questions written outside the examination hall: cancellation of the whole examination and expulsion from the university for one to two years.
  - (ix) Having a question answered by someone else: cancellation of the whole examination and expulsion from the university for two years.
16. The invigilator is empowered to warn a student and deduct the mark up to 5% as mentioned in section 15(i) above. The Chief Invigilator (for UG)/head of the department (for PG) is empowered to expel students from the examination hall if he is satisfied on the spot enquiry that the student is guilty of misconduct mentioned in section 15 above. In all such cases the matter has to be reported to the Vice-Chancellor with incriminating documents, if any. Decisions for cancellation of the examination and expulsion from the university for a period of not exceeding six months. For expulsion for a period more than six months, the Vice-Chancellor shall refer the matter to the Board of Discipline provided in Section 6.

Chapter IV

**COURSE STRUCTURE OF  
THE FIVE-YEAR B. ARCH PROGRAM**

## 1st Year Odd Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 1102	Design Studio - I	9	4.5
2.		Arch 1104	Architectural Graphics - I	6	3
3.		Arch 1106	Design Communication	3	1.5
4.	Theory Compulsory	Arch 1101	History of Architecture - I	2	2
5.		Arch 1103	Aesthetics and Design - I	2	2
6.		Phy 1105	Physics	3	3
7.		Hum 1107	Communication Skills in English	2	2
8.		Hum 1109	Human Psychology	2	2
Total				29	20

No. of Theory Courses = 05

Total Contact Hour = 29

No. of Sessional Courses = 03

Total Credit = 20

**Arch 1102: Design Studio – I**

Course Code	Arch 1102
Course Title	Design Studio - I
Course Type	Core Course
Year/Semester	1st/Odd
Prerequisite (If any)	None
Credit Value	4.50
Contact Hours	9.00

**Course Contents**

Introduction to design and relationship between human senses and design, elements of design, principles of design and study of their relation to nature. Understanding of forms in nature. Hands-on experience in designing simple two-dimensional elements with primary elements of form; Point, Line, Plane, Shapes and Volume; Form and space relationship. Introduction to colour schemes. Exercises with the ordering principles of composition; Rhythm, harmony, balance, movement, proportions, axis, symmetry, asymmetry, hierarchy, datum etc. in various mediums for articulation of abstract ideas and to develop creative thinking.

**Arch 1104: Architectural Graphics - I**

Course Code	Arch 1104
Course Title	Architectural Graphics - I
Course Type	Core Course
Year/Semester	1st/Odd
Credit Value	3.00
Contact Hours	6.00

**Course Contents**

Line drawing quality; Study of scale; Lettering and graphic presentation symbols. Execution of plan, elevation and section.

## Arch 1106: Design Communication

Course Code	Arch 1106
Course Title	Design Communication
Course Type	Core Course
Year/Semester	1st/Odd
Prerequisite (If any)	Nil
Credit Value	1.50
Contact Hours	3.00

### Course Contents

Exploration of critical judgment and means to conceptualize, develop, represent and communicate architectural form and space, including fundamentals of freehand drawing, physical model making and diagramming.

## Arch 1101: History of Architecture - I

Course Code	Arch 1101
Course Title	History of Architecture - I
Course Type	Core Course
Year/Semester	1st/Odd
Prerequisite (If any)	Nil
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Introduction to the prehistoric settlements; Comparative analysis of ancient architecture and settlement pattern of Egyptian, Mesopotamian (Sumerian and Assyrian), Persian, Meso-American, Chinese, Japanese, European Civilizations.

## Arch 1103: Aesthetics and Design - I

Course Code	Arch 1103
Course Title	Aesthetics and Design - I
Course Type	Core Course
Year/Semester	1st/Odd
Prerequisite (If any)	None
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Introduction to the subject matter and purpose of the concept of aesthetics; Aesthetics and the act of creation. Aesthetic knowledge as a system; Methods of aesthetics; Aesthetic activity; Relationship between aesthetics and design; essence and principal forms of aesthetics. Theoretical models of aesthetics. Style; psychology of creation and perception; Creation as an object of perception. Theory of criticism. Definition of design; Architectural design; Design in nature; Man and design; Comparative study of traditional and contemporary design methods; Principles of design; Elements of design, Architectural form, space, scale and proportioning system in relation to human perception and experiences.

## Phy 1105: Physics

Course Code	Phy 1105
Course Title	Physics
Course Type	Core Course
Year/Semester	1st/Odd
Prerequisite	N/A
Credit Value	3.00
Contact Hours	3.00

### Course Contents

Heat- measurement of low and high temperature; Calorimetry; Specific heat of solids and liquids; Transformation of heat; Thermal conductivity of solid and liquid. Sound- simple harmonic motion; Combination simple harmonic motion; Wave motion; Reflection, refraction and absorption of sound; Building acoustics. Optics- photometry; defects of image; Optical instruments.



## Hum 1107: Communication Skills in English

Course Code	Hum 1107
Course Title	Communication Skills in English
Course Type	Core Course
Year/Semester	1 <sup>st</sup> /Odd
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Study of English Sounds: English phonemes, word-transcription, intonation and stress: using a Dictionary: Study of words: formation and transformations: Sentence: types, structures and transformations: phrase and clause: types and structures beyond the sentence: Punctuation. Oral communication: vocabulary and grammar, pronunciation, audience awareness, context: speaker-listener relationship: body language: guidelines for effective oral communication: reading comprehension: intensive and extensive reading, scanning, skimming, contextual understanding and understanding the whole text writing: product approach and process approach (planning, arrangement, drafting, revision and final product): modes of writing; Definition classification, description, narrative, argumentative, cause and effect: art of good writing: writing situations and tasks: summarizing, paragraph and essay writing, letters and applications, writing assignments, report writing.

## Hum 1109: Human Psychology

Course Code	Hum-1109
Course Title	Human Psychology
Course Type	Core Course
Year/Semester	1 <sup>st</sup> year / Odd
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Introduction to psychology; Social and biological motivation; Human behaviour perception and its categories; Sensory perception, attention; Form and visual depth perception; Consistency; Movement plasticity; Individual difference perception, social influence and relationships; Learning, thinking and memory. Nature and scope of environmental psychology; 'sense of place' and identity; Environmental cognition; environment-behaviour relationships; Environmental attitudes, assessments and preferences; Social processes (privacy, personal space, territoriality, crowding); Sustainable environment behaviour; Environmental psychology and design for different settings.

## 1st Year Even Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 1202	Design Studio - II	9	4.5
2.		Arch 1204	Architectural Graphics - II	6	3
3.		Arch 1206	Photography and Graphic Reproduction	3	1.5
4.	Theory Compulsory	Arch 1201	History of Architecture - II	2	2
5.		Arch 1203	Aesthetics and Design - II	2	2
6.		Arch 1205	Ecology	2	2
7.		Math 1205	Mathematics	3	3
8.		Hum 1207	Fundamentals of Sociology	2	2
Total				29	20

No. of Theory Courses = 05

No. of Sessional Courses = 03

Total Contact Hour = 29

Total Credit = 20

**Arch 1202: Design Studio - II**

Course Code	Arch 1202
Course Title	Design Studio - II
Course Type	Core Course
Year/Semester	1st/Even
Prerequisite	Design Studio - I
Credit Value	4.50
Contact Hours	9.00

**Course Contents**

Understanding of forms- space relationship in three-dimensional compositions with special emphasis on space, its definition, and qualities. Basic composition with color schemes and primary elements of architectural forms, Lines, Shapes, and Geometry by exploring various materials and techniques of model making. Study of a simple architectural space.

**Arch 1204: Architectural Graphics - II**

Course Code	Arch 1204
Course Title	Architectural Graphics - II
Course Type	Core Course
Year/Semester	1st/Even
Prerequisite (If any)	Arch 1104
Credit Value	3.00
Contact Hours	6.00

**Course Contents**

Execution of axonometric drawings & mechanical perspectives. Introduction to shades, shadows and reflections. Mechanical and freehand architectural rendering. Presentation drawings and architectural rendering using various techniques in black & white and color.

## Arch 1206: Photography and Graphic Reproduction

Course Code	Arch 1206
Course Title	Photography and Graphic Reproduction
Course Type	Core Course
Year/Semester	1st/Even
Prerequisite	N/A
Credit Value	1.50
Contact Hours	3.00

### Course Contents

Introduction to parts and operations of camera, Types of camera, lenses and other basic photography gear. Understanding exposure, aperture and iso and other general photography terms. Typical exercises: playing with shutter speed, aperture, exposure, motion blur, depth of field, etc. Specialized exercise: architectural photography, panorama, macro and details, interiors and model photography. Application and exploration of various media of graphic reproduction.

## Arch 1201: History of Architecture - II

Course Code	Arch 1201
Course Title	History of Architecture - II
Course Type	Core Course
Year/Semester	1st/Even
Prerequisite	Arch 1101
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Philosophy and development of early Christian, Byzantine and Romanesque architecture; Gothic and Renaissance architecture; Development in the definition of form and space during the medieval era and the age of humanism. Dynamism and systemization of Baroque architecture.

## Arch 1203: Aesthetics and Design - II

Course Code	Arch 1203
Course Title	Aesthetics and Design - II
Course Type	Core Course
Year/Semester	1st/Even
Prerequisite (If any)	Aesthetics and Design - I
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Definition of Art; relationship between art and science; Function of art. Branches of Art. Style, history and meaning; Philosophical approaches to aesthetics. Fundamentals of art interpretation. Definition of music; Key elements of music, Relationship between music and architecture; Musical sound; Concept of Western and Indian music. Historical conception of music. Context; The ideology of planning and design; Evolution of design (analysis, form, process). Social production of architecture; Influence of geo-climatic factors in design; Analysis and synthesis- aesthetics, structure and analogy. The properties of space, meaning, form, etc. Ideology and its reflection in form and space. The basic methodologies of architectural criticism.

## Arch 1205: Ecology

Course Code	Arch 1205
Course Title	Ecology
Course Type	Core Course
Year/Semester	1st/Even
Prerequisite (If any)	None
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Definition; Habitat, Bio-geographical distribution and abundance; Evolution and adaptation; Interspecific interactions; Trophic levels and energy flow. Man, and his environment; Urban Ecosystem, Bio- diversity and logical conservation; Environmental pollution.

## Arch 1205: Mathematics

Course Code	Math 1205
Course Title	Mathematics
Course Type	Core Course
Year/Semester	1 <sup>st</sup> year Even
Prerequisite	None
Credit Value	3.00
Contact Hours	3.00 hours per week

### Course Contents

Differential calculus - Function, limit, continuity, differentiation, successive and partial differentiation; Rolle's theorem; Mean value theorem; Expansion of functions; Tangent and normal; Maxima and minima. Integral calculus - Integration by various methods; Definite Integrals; Length of curves; Area bounded by plane curves; Volumes and surface areas of solids of revolution. Co-ordinate geometry of two dimensions; Transformations of co-ordinates; Pair of straight lines; Circle; Co-axial circle; Tangent & normal at a point on a circle; General equation of second degree. Co-ordinate geometry of three dimensions; Distance between points; Angle between two straight lines; Plane through three points; Angle between two planes; Straight line through two points.

## Hum 1207: Fundamentals of Sociology

Course Code	Hum 1207
Course Title	Fundamentals of Sociology
Course Type	Theory core
Year/Semester	1 <sup>st</sup> year Even
Prerequisite	None
Credit Value	3.00
Contact Hours	3.00 hours per week

### Course Contents

Introduction to Sociology; Definition, nature and theoretical perspectives of sociology. Relation between sociology and architecture. Basic concepts of sociology; society. Community, association, institutions groups, customs, culture and civilization; Socialization, process and formation of personality. Factors influencing social life, Marriage and family. Theories of social stratification, social structure, social control and property, religion and state. Art and architecture as an agency of social control, social structure and social change of Bangladesh. Urbanization in Bangladesh.

## 2nd Year Odd Semester



SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 2102	Design Studio - III	12	6
2.		Arch 2104	Computer Applications-I	3	1.5
3.		Arch 2106	Graphic Design and Sculpture	6	3
4.	Theory Compulsory	Arch 2101	History of Architecture - III	2	2
5.		Arch 2103	Climate and Design - I	2	2
6.		CE 2153	Structure- I	2	2
7.		URP 2151	Physical Planning- I	2	2
8.	Theory Optional (Only one)	Arch 2105	Architectural Acoustics and Lighting	2	2
9.		Hum 2107	Logic and Philosophy	2	2
Total				31	20.5

No. of Theory Courses = 05

No. of Sessional Courses = 03

Total Contact Hour = 31

Total Credit = 20.5

**Arch 2102: Design Studio III**

Course Code	Arch 2102
Course Title	Design Studio III
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite (If any)	Design Studio II
Credit Value	6.00
Contact Hours	12.00

**Course Contents**

Study anthropometrics and ergonomics; in relation to scale and proportions based on different human activities. Designing architectural spaces with a fundamental aspect of spatial organization, ergonomics and form-space relationship will be the major aspect of the studio.

**Arch 2104: Computer Application - I**

Course Code	Arch 2104
Course Title	Computer Application - I
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite	None
Credit Value	1.50
Contact Hours	3.00

**Course Contents**

Introduction to computer applications. Digital design fundamentals. Overview of popular software packages for word processing, spreadsheet, and presentation. Exploration of software packages for analysis, conceptualization, and communication of design intent in 2D.

## Arch 2106: Graphic Design and Sculpture

Course Code	Arch 2106
Course Title	Graphic Design and Sculpture
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite	None
Credit Value	3.00
Contact Hours	6.00

### Course Contents

Basic techniques used in graphic design; Selection of drawing instruments, surfaces, typography; The pros and cons of the different systems to achieve the most effective presentation. Graphic design of posters, products, display, portfolio. Drawing and painting; Relationship with architectural presentation; Studies with clay, wood, metal etc.

## Arch 2101: History of Architecture - III

Course Code	Arch 2101
Course Title	History of Architecture - III
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite	Arch 1201
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Indo-Bangladesh sub-continental architecture; Indus civilization; Vedic civilization; Early Mauryan dynasty; Buddhist period; Rock-cut architecture; Hynayana phase, Mahayana phase. Introduction to Gupta period; Evolution of temples; Dravidian style; Northern Indo-Aryan style.

**Arch 2103: Climate and Design - I**

Course Code	Arch 2103
Course Title	Climate and Design - I
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite	Physics, Mathematics
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Introduction to Global climatic factors; Elements of climate; Classification of climates; Tropical climate; Site climate. Factors affecting human responses to the thermal environment. Principles of thermal design and means of thermal control, shading devices. Ventilation and air movement.

**CE 2153: Structure - 1**

Course Code	CE 2153
Course Title	Structure - 1
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite	Nil
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Force; Equilibrium; Free body diagram; Resultants and components; coplanar concurrent forces. Moments and parallel coplanar forces, centroid, moment of inertia of areas, maximum and minimum forces, friction, flexible chords.

**URP 2151: Physical Planning - I**

Course Code	URP 2151
Course Title	Physical Planning - I
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite	
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Origin and Evolution of Settlements and Cities; City Planning During the Ancient, Classical, Medieval, Neo-Classical and Modern Periods; Spatial Structure of Cities; Basic Planning Theories; Theories and Principles of Resources Use and Its Limitations; Introduction of Community, City and Regional Planning; Physical Planning as Space Dimension of National Economic Growth; Problems of Planning in Bangladesh.

**Arch 2105: Architectural Acoustics and Lighting**

Course Code	Arch 2105
Course Title	Architectural Acoustics and Lighting
Course Type	Optional Course
Year/Semester	2nd/Odd
Prerequisite	Physics, Mathematics
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Principles of sound, noise and vibration; scaling and perception of sound and noise; history of acoustics design in architecture; fundamentals of acoustics in enclosed spaces; acoustics design methods, elements and materials in different architectural spaces for speech, music and other purposes. Assessment of acoustical performance. Effects of the luminous environment on human beings, Introduction to Daylighting in Architecture, Lighting and indoor space quality, Prediction tools and techniques of supplementary and artificial lighting, Designing for daylight in the tropics.

**Hum 2107: Logic and Philosophy**

Course Code	Hum 2107
Course Title	Logic and Philosophy
Course Type	Optional Course
Year/Semester	2nd/Odd
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Introduction to inductive and deductive logic; thoughts; propositions. Syllogisms; Fallacies; Cause; Hypothesis & Analogy. Nature of philosophical enquiry; Relationship of philosophy to science, history, politics, religion and especially to architecture

## 2nd Year Even Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 2202	Design Studio - IV	12	6
2.		Arch 2204	Computer Applications - II	3	1.5
3.		Arch 2206	Digital Simulation	3	1.5
4.	Theory Compulsory	Arch 2201	History of Architecture - IV	2	2
5.		Arch 2203	Climate and Design - II	2	2
6.		Arch 2205	Construction Details	2	2
7.		CE 2253	Structure- II	2	2
8.	Theory Optional (Only one)	Arch 2207	Building and Finished Materials	2	2
9.		Arch 2209	Urban Anthropology	2	2
Total				28	19

No. of Theory Courses = 05

Total Contact Hour = 28

No. of Sessional Courses = 03

Total Credit = 19



**Arch 2202: Design Studio - IV**

Course Code	Arch 2202
Course Title	Design Studio - IV
Course Type	Core Course
Year/Semester	2nd/Even
Prerequisite	Arch 2102: Design Studio - III
Credit Value	6.00
Contact Hours	12.00

**Course Contents**

Fundamental design principles and methods. Aspects of the design process emphasising on conceptualization and generation of forms, concepts as a framework to guide the design process and form-function relationship. Building design with simple functions with particular consideration for environmental considerations such as climatic devices and control, architectural lighting, acoustics and noise control. Relationship of form and circulation with attention to building approach, entrance, path configuration, path-space relationship, form of the circulation

**Arch 2204: Computer Application - II**

Course Code	Arch 2204
Course Title	Computer Application - II
Course Type	Core Course
Year/Semester	2nd/Even
Prerequisite	Computer Application - I
Credit Value	1.50
Contact Hours	3.00

**Course Contents**

Hands-on experience with computer-related tools and techniques, useful for architects to be acquainted with the profession. Advanced 3D presentation techniques and computer-aided architectural rendering. Introduction to object-oriented computer-aided design in the light of Building Information Modelling (BIM).

**Arch 2206: Digital Simulation**

Course Code	Arch 2206
Course Title	Digital Simulation
Course Type	Core Course
Year/Semester	2nd/Even
Prerequisite	-
Credit Value	1.50
Contact Hours	3.00

**Course Contents**

Introduction to digital tools and techniques for architecture design evaluation. Assessment of designs through simulations of thermal comfort analysis, daylight analysis, acoustical analysis, energy efficiency analysis, and site planning analysis. Emphasis will be placed on the practical application of digital simulation in architectural design and the integration of simulation results into the design process.

**Arch 2201: History of Architecture - IV**

Course Code	Arch 2201
Course Title	History of Architecture - IV
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite	History of Architecture - III
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Indo-Bangladesh subcontinent Architecture: Muslim period; Introduction; Sources of Muslim architecture in the sub-continent; Imperial style. Sur or Pathan period; Mughal period.

## Arch 2203: Climate and Design - II

Course Code	Arch 2203
Course Title	Climate and Design - II
Course Type	Core Course
Year/Semester	2nd/Even
Prerequisite (If any)	Physics, Mathematics
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Sun and built form relationship; Wind and built form relationship; Precipitation and built form relationship; Daylighting, Daylighting strategies, Rain water harvesting; Green roofing strategies; Passive means of climatic control in hot-dry, warm-humid, composite and other tropical regions. Design methods and procedures of passive climatic control. Case studies.

## Arch 2205: Construction Details

Course Code	Arch 2205
Course Title	Construction Details
Course Type	Core Course
Year/Semester	2nd/Odd
Prerequisite (If any)	Nil
Credit Value	2.00
Contact Hours	2.00

### Course Contents

This course focuses on introduction to construction. General principles of construction and relationship to design intentions. Types of essential structural elements e.g. (foundations, floors, walls, and roof systems) and their construction methods and techniques. Method of damp proofing and its treatment in diverse situations. Vertical circulation systems, their types, materials, and construction techniques such as elevators, escalators and stairs, etc. in buildings. Classification of doors and windows, their fixtures, fastening, use and applications. Special spaces in buildings.

**CE 2253: Structure - II**

Course Code	CE 2253
Course Title	Structure - II
Course Type	Core Course
Year/Semester	2nd/Even
Prerequisite	CE 2153-Structure-I
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Fundamental concepts of stress and strain, stresses and strains in member subjected to tension, compression, shear and temperature changes. The concept of factor of safety, Mechanical properties of materials. Shear force and bending moment diagrams for statically determinate beams, flexural and shearing stresses in beam. Deflection in beams by double integration method. Fundamentals of columns.

**Arch 2207: Building and Finished Materials**

Course Code	Arch 2207
Course Title	Building and Finished Materials
Course Type	Optional Course
Year/Semester	2nd/Even
Prerequisite (If any)	Nil
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Introduction to various types of building materials, their uses, properties, manufacturing process and maintenance; Stone, Brick, Sand, Cement, Concrete, Steel, Timber etc.; Traditional and rural materials; Bamboo, different uses of Earth etc. as building materials, Life cycle analysis of building materials. Introduction to various types of Finish materials; Plastering, Pointing, Floor finishes, Glass, Roofing, Paint, Insulation etc., their nature, classification, manufacturing process, properties and uses.

**Arch 2209: Urban Anthropology**

Course Code	Arch 2209
Course Title	Urban Anthropology
Course Type	Optional Course
Year/Semester	2nd/Even
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Origin and development of social anthropology: ethnography and ethnology. Tools of anthropological research and their applications in architectural studies and analysis. Mutual interaction of people and their built environment; Impact of social stratification; Pluralism in complex societies.

## 3rd Year Odd Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 3102	Design Studio - V	18	9
2.		Arch 3104	Building Materials and Construction	6	3
3.	Theory Compulsory	Arch 3101	Modern Architecture	2	2
4.		CE 3153	Structure - III	2	2
5.		EEE 3165	Electrical Equipment	2	2
6.	Theory Optional (Only one)	CE 3155	Estimation and Specifications	2	2
7.		Arch 3103	Vernacular Architecture and Settlements	2	2
Total				32	20

No. of Theory Courses = 04  
 No. of Sessional Courses = 02

Total Contact Hour = 32  
 Total Credit = 20

**Arch 3102: Design Studio V**

Course Code	Arch 3102
Course Title	Design Studio V
Course Type	Core Course
Year/Semester	3rd/Odd
Prerequisite (If any)	Design Studio IV
Credit Value	9.00
Contact Hours	18.00

**Course Contents**

Designing buildings to create sensibility regarding the relationship between built form, structural systems and material use and environmental conditions with that of the ordering principles.

**Arch 3104: Building Materials and Constructions**

Course Code	Arch 3104
Course Title	Building Materials and Constructions
Course Type	Core Course
Year/Semester	3rd/Odd
Prerequisite	N/A
Credit Value	3.00
Contact Hours	6.00

**Course Contents**

Understanding the basic materials and components of a building with its production details, such as cement, sand, concrete, stone, brick, timber, steel, rural and traditional materials etc. and to enable them to represent the different building components through relevant drawings. Simple tests for building materials and ingredients; preparation of concrete mix, placing and curing. Concrete construction methods: special concrete and concreting methods, cement & concrete. Comprehensive study of the building construction and systems, materials and methods, and their implications, such as foundation, footing (stone, brick & RCC);



Wall section (plinth, floor, sill, lintel, roof & parapet); Roofs (flat, sloped, pyramid & dome); brick masonry, roofs in traditional material, structures using rural materials. Submission of a model showing details of any structural system using R.C.C works/composite works, the finish materials of a building with its manufacturing details such as wood, glass, paints, partitions & shelves & drop ceiling, thermal insulation and acoustics insulation, pre-fabricated materials, lifts, escalators & conveyors, ferrous metals, steel trusses frames, gates and steel components, aluminium, plastics, damp proofing and water proofing. Comprehensive study of the building construction methods of finish materials and their implications such as fenestration (different types of doors, windows, grill, louver & ventilators), kitchen, toilet, plumbing, electrical etc. Constructions of special form dome, vault, shell, space frame, metal structure etc. Site visits to acquaint with construction techniques and site supervision with proper documentation.

### **Arch 3101: Modern Architecture**

Course No.	Arch 3101
Course Title	Modern Architecture
Course Type	Core Course
Year/Semester	3rd/Odd
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

#### **Course Contents**

Critical analysis of different forms of art & architecture in the 19th and 20th centuries. Architecture of Asia and Africa; critical analysis of different forms of art & architecture in the 19Th and 20th centuries of SAARC countries; Peoples reaction and acceptance of this form of art and architecture.

## **CE 3155: Estimation and Specification**

Course Code	CE 3155
Course Title	Estimation and Specification
Course Type	Optional Course
Year/Semester	3rd/Odd
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

### **Course Contents**

Estimation: definition, purpose, types of estimation, various methods of approximate estimation of buildings; Rate analysis; detailed estimation. Specification: definition, purpose, procedure for writing specifications for the purpose of calling tenders, types of specification; Specifications for different items.

## **Arch 3103: Vernacular Architecture and Settlements**

Course Code	Arch 3103
Course Title	Vernacular Architecture and Settlements
Course Type	Elective
Year/Semester	4th/Even
Academic Session	2020-21
Credit Value	2.00
Contact Hours	2.00

### **Course Contents**

Defining vernacularism; Vernacular architecture and settlement and its evolution; Concepts and approaches to the study and analysis of vernacular architecture. Types and forms of vernacular architecture – vernacular know how and design. Symbolism and cultural expression generating vernacular building form and texture. Vernacular architecture in the contemporary context facing changes. Organizational community development, housing and institutional building programs in vernacular settings. Learning from vernacular architecture: site & context; Self-help and community-based approaches, future directions and prospects.

## 3rd Year Even Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 3202	Design Studio - VI	18	9
2.		Arch 3204	Working Drawing	6	3
3.	Theory Compulsory	Arch 3201	Contemporary Architecture	2	2
4.		CE 3253	Structure - IV	2	2
5.		ME 3275	Mechanical Equipment	2	2
6.	Theory Optional (Only one)	Arch 3203	Disaster Resilient Buildings and Management	2	2
7.		CE 3255	Water Supply, Sanitation and Fire Safety	2	2
Total				32	20

No. of Theory Courses = 04  
 No. of Sessional Courses = 02

Total Contact Hour = 32  
 Total Credit = 20

**Arch 3202: Design Studio VI**

Course Code	Arch 3202
Course Title	Design Studio - VI
Course Type	Core Course
Year/Semester	3rd/Even
Prerequisite	Arch 3102: Design Studio - V
Credit Value	9.00
Contact Hours	18.00

**Course Contents**

Complex building problems including large public buildings emphasizing the ordering principles, human experiences, ideas and technologies of architecture.

**Arch 3204: Working Drawing**

Course Code	Arch 3204
Course Title	Working Drawing
Course Type	Core Course
Year/Semester	3rd/Even
Prerequisite (If any)	None
Credit Value	3.00
Contact Hours	6.00

**Course Contents**

Architectural working drawing as construction document (plan, section, elevation, site plan, key plan etc.); Large scale detail architectural working drawing as construction document (kitchen, toilet, stair, door, window, wall section, critical roof section, etc.).

## Arch 3201: Contemporary Architecture

Course Code	Arch 3201
Course Title	Contemporary Architecture
Course Type	Core Course
Year/Semester	3rd/Even
Prerequisite	None
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Recent developments in the fields of architecture around the world by the influence of new technology and changes in contemporary social vocabulary; Recent developments in the fields of architecture of SAARC countries study of architectural identity and regionalism in architecture of SAARC countries; Contemporary Architecture of Bangladesh.

## CE 3253: Structure - IV

Course Code	CE 3253
Course Title	Structure - IV
Course Type	Core Course
Year/Semester	3rd/Even
Prerequisite	CE 3153: Structure - III
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Soil mechanics and foundation engineering; Design of foundations in R.C.C. piles and rafts; Retaining walls. Concept of structural indeterminacy and its application in structural system development; Reinforced concrete design (R.C.C.) by ultimate strength design(USD) method.

**ME 3275: Mechanical Equipment**

Course Code	ME 3275
Course Title	Mechanical Equipment
Course Type	Core Course
Year/Semester	3rd/Even
Prerequisite (If any)	Thermodynamics, Heat and Mass Transfer
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Heat ventilation and air conditioning (HVAC): behavior of heat propagation, thermal insulation materials and their coefficient of thermal conductivity; General methods of thermal isolation: thermal isolation of roofs, exposed walls; definition and necessity, system of ventilation. Principles of air conditioning and air cooling: different system of ducting and distribution, essentials of air conditioning system; Vertical transportation; Simple calculations to access the load; Special requirements and system for multi-stored buildings; Fire hazards: fire-fighting methods of mechanical means. Vertical transportation: elevators, escalators.

**Arch 3203: Disaster Resilient Buildings and Management**

Course Code	Arch 3203
Course Title	Disaster Resilient Buildings and Management
Course Type	Optional Course
Year/Semester	3rd/Even
Prerequisite (If any)	None
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Understanding the effects of natural calamities, such as floods, tropical cyclones, earthquakes, landslides, heat waves, droughts & tsunami; Climate changes, global sea rise, coastal erosion, environmental degradation; large dams & earth tremors; roads buildings & landslides; Urbanization & Decertification; Cyclone effects in coastal towns; Pre disaster mitigation, emergency, transition, and recovery; Disaster management plan. Design guidelines for disaster proof construction at appropriate situations (Engineering, or architectural); Landscape & planning solutions for different types of calamities; Norms, standards and practice

procedures for shelter & settlement; Seismic repairs & retrofitting of damaged and undamaged buildings; Case studies of natural disasters in Bangladesh.

## **CE 3255: Water Supply, Sanitation and Fire Safety**

Course Code	CE 3255
Course Title	Water Supply, Sanitation and Fire Safety
Course Type	Core Course
Year/Semester	3rd/Even
Prerequisite	
Credit Value	2.00
Contact Hours	2.00

### **Course Contents**

Water supply and sanitation system in buildings; Introduction to water supply systems in high rise buildings; Drainage and sewage disposal; Introduction to drainage systems in high rise buildings; Firefighting services: behaviour of fire, concepts in fire protection, high temperature effect and combustibility, fire safety, fire & human behaviour; Means of escape: Design and Planning of escape halts and corridors to final exit; Psychological aspects: Concept of panic, domestic, multiple occupancy and hospital fires.



## 4th Year Odd Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 4102	Design Studio - VII	18	9
2.		Arch 4104	Interior Design	3	1.5
3.	Theory Compulsory	Arch 4101	Architecture of Bengal - I	2	2
4.		Arch 4103	Urban Design	2	2
5.		CE 4153	Structure - V	2	2
6.	Theory Optional (Only one)	Arch 4105	Landscape Architecture	2	2
7.		Arch 4109	Sustainable Design and Technology	2	2
Total				29	18.5

No. of Theory Courses = 04  
 No. of Sessional Courses = 02

Total Contact Hour = 29  
 Total Credit = 18.5

**Arch 4102: Design Studio - VII**

Course No.	Arch 4102
Course Title	Design Studio - VII
Course Type	Core Course
Year/Semester	4th/Odd
Prerequisite	Arch 3202: Design Studio - VI
Credit Value	9.00
Contact Hours	18.00

**Course Contents**

Urban design concepts, design of space between buildings and public places; Conservation, Renewal, Regeneration, Redevelopment and Rehabilitation etc. Large scale multi-functional building design in the light of modern technology.

**Arch 4104: Interior Design**

Course Code	Arch 4104
Course Title	Interior Design
Course Type	Core Course
Year/Semester	4th/Odd
Prerequisite	Nil
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Interior Architecture Design program based on all the phases of interior planning, emphasizing on problem-solving and creative development of the proximate environments. Study of precedents of interior environments, different practical interior projects and their construction process, furniture, interior design technology, use of daylighting and artificial lighting and colour schemes. Preparation of design and installation drawings for interior. Detailed drawings for

suspended ceiling, partition dry wall, wall, and artificial lighting. Furniture design and details of furniture joints.

### **Arch 4101: Architecture of Bengal - I**

Course Code	Arch 4101
Course Title	Architecture of Bengal - I
Course Type	Core Course
Year/Semester	4th/Odd
Prerequisite	None
Credit Value	2.00
Contact Hours	2.00

#### **Course Contents**

Introduction to Architecture of Bengal; Geographical, Geological, Climatic, Historical, Social, Philosophical and Religious influences. Prehistoric period; Buddhist and Hindu art & architectural development during Mauryan, Gupta, Pala, Verman, Sen in Bengal Architecture.

### **Arch 4103: Urban Design**

Course Code	Arch 4103
Course Title	Urban Design
Course Type	Core Course
Year/Semester	4th/Odd
Prerequisite	Nil
Credit Value	2.00
Contact Hours	2.00

#### **Course Contents**

Background & context: development of urban spaces through history; modern concepts in urban design; urban renewal, redevelopment, conservation, etc. Development control. Concepts & methods: principles and techniques of urban

design, analysis of urban physical pattern, Framework for development, development context, institutional framework, financial context; contemporary concept & trends.

### **CE 4153: Structure - V**

Course Code	Arch 4153
Course Title	Structure - V
Course Type	Core Course
Year/Semester	4th/Odd
Prerequisite	CE 3253: Structure - IV
Credit Value	2.00
Contact Hours	2.00

#### **Course Contents**

Introduction to pre-stressed concrete design. Design and pre-stressing of simple building elements. Distribution of lateral loads (wind and earthquake) in buildings. Truss, different types of trusses, wind and static load analysis of trusses, design of truss sections, design of steel beams and columns.

### **Arch 4105: Landscape Architecture**

Course Code	Arch 4105
Course Title	Landscape Architecture
Course Type	Elective Course
Year/Semester	4th/Odd
Prerequisite	Nil
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Introduction; elements and principles of landscape design historic development of landscape concepts, natural cycles in landscaping, types of landscaping; site analysis and design. Introduction to plant, plantation and other landscaping materials and their uses; application to design problems.

### Arch 4109: Sustainable Design and Technology

Course Code	Arch 4109
Course Title	Sustainable Design and Technology
Course Type	Elective Course
Year/Semester	4th/Odd
Prerequisite	Nil
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Introduction to principles and philosophies of climatically conscious design, Various tools of sustainable design such as design methodology, resource optimization, and innovative approaches to eco-design like sustainable design methods & material optimization, environmental & social considerations. Use of plantations and shading Orientation and sun-path analysis; Using natural resources for ventilation and lighting in an energy-conscious way Energy & water usage optimization, bio-mimetics, life cycle analysis; net zero concepts.

## 4th Year Even Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 4202	Design Studio - VIII	18	9
2.		Arch 4204	Landscape Design	3	1.5
3.	Theory Compulsory	Arch 4201	Architecture of Bengal - II	2	2
4.		Arch 4203	Housing	2	2
5.		CE 4253	Structure - VI	2	2
6.	Theory Optional (Only one)	Arch 4205	Architectural Conservation	2	2
7.		URP 4251	Advanced Physical Planning	2	2
Total				29	18.5

No. of Theory Courses = 04  
 No. of Sessional Courses = 02

Total Contact Hour = 29  
 Total Credit = 18.5



**Arch 4202: Design Studio VIII**

Course Code	Arch 4202
Course Title	Design Studio VIII
Course Type	Core Course
Year/Semester	4th/Even
Prerequisite	Design Studio VII
Credit Value	9.00
Contact Hours	18.00

**Course Contents**

Study and design of complex multi-functional buildings in the light of modern technology. Investigation, analysis, and design of housing and communities with specific themes and their impact on the immediate environment. Social, psychological, or emotional, or spiritual contents of built form and environment are emphasized.

**Arch 4204: Landscape Design**

Course Code	Arch 4204
Course Title	Landscape Design
Course Type	Core Course
Year/Semester	4th/Even
Prerequisite	N/A
Credit Value	1.5
Contact Hours	3.00

**Course Contents**

Application of the principles and technologies of landscape architecture through design in design exercises. Application of course Arch 4105.

## Arch 4201: Architecture of Bengal - II

Course Code	Arch 4201
Course Title	Architecture of Bengal - II
Course Type	Core Course
Year/Semester	4th/Even
Prerequisite	Arch 4101: Architecture of Bengal - I
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Architecture of Bengal- Islamic Architecture in Bengal: The Sultan, Mughal philosophy and development. Architecture of Bengal- The colonial Period: Early European colonies; Portuguese, Dutch, French, British Colonial architecture philosophy and development.

## Arch 4203: Housing

Course Code	Arch 4203
Course Title	Housing
Course Type	Core Course
Year/Semester	4th/Even
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Housing and community, their influence on individuals, societies and the environment; physical, social, economic and technical aspects of housing problems in Bangladesh, Role of private and public sectors in housing; housing finance, spaces, standards, housing infrastructure and other housing design requirements; current housing technologies; real estate management.

**CE 4253: Structure - VI**

Course Code	CE 4253
Course Title	Structure VI
Course Type	Core Course
Year/Semester	4th/Even
Prerequisite (If any)	CE 4153: Structure - V
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Housing and community, their influence on individuals, societies and the environment; physical, social, economic and technical aspects of housing problems in Bangladesh, Role of private and public sectors in housing; housing finance, spaces, standards, housing infrastructure and other housing design requirements; current housing technologies; real estate management.

**Arch 4205: Architectural Conservation**

Course No.	Arch 4205
Course Title	Conservation
Course Type	Optional Course
Year/Semester	4th/Even
Prerequisite	N/A
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Definition of conservation, need for conservational activities and principles. Preservation, restoration, reconstruction, adaptation, area conservation. A brief study in Bangladesh and abroad; Role of an architect in conservation program; Origin and evolution of conservational programs, survey and studies required - methodology and implementation. Social, cultural, historical, and economic values of conservational projects; Involvement of government and community. Conflict and compatibility between conservation and development - the need to strike a balance.

Issues of conservation, legislation, finance, rules and regulation, administrative aspects; New concepts in conservation; Conservation of areas and buildings, planning controls; case studies.

## **URP 4251: Advanced Physical Planning**

Course Code	URP 4251
Course Title	Advanced Physical Planning
Course Type	Elective Course
Year/Semester	4th/Even
Prerequisite (If any)	
Credit Value	2.00
Contact Hours	2.00

### **Course Contents**

Theories of urban development i.e., Economic, political, environmental, spatial and socio-spatial aspects. Methods & techniques of urban analysis; Relationship between land use development and the overall urban development process and the role of physical planning as a tool for achieving desired objectives. The inter-relationship between key urban activities in the urban planning process. Historical background of rural settlements, nature and components of the environment, social and economic characteristics of the rural communities. Rural resources and resource utilization, criteria for rural planning; Concepts of integrated rural development; Policies and strategies for rural development activities; Development of institutions, quantitative, qualitative and spatial aspects.

## 5th Year Odd Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 5102	Design Studio - IX	21	10.5
2.		Arch 5104	Seminar	3	1.5
3.	Theory Compulsory	Arch 5101	Research Methodology	2	2
4.		Arch 5153	Survey Technique	2	2
5.		Hum 5107	Project Economics	2	2
Total				30	18

No. of Theory Courses = 03  
 No. of Sessional Courses = 02

Total Contact Hour = 30  
 Total Credit = 18

**Arch 5102: Design Studio IX**

Course Code	Arch 5102
Course Title	Design Studio IX
Course Type	Core Course
Year/Semester	5th/Odd
Prerequisite	Arch 4202: Design Studio VIII
Credit Value	10.5
Contact Hours	21.00

**Course Contents**

Realistic approach to building design exercise with detail drawings for construction including preliminary drawings, presentation drawings, working drawings, detail drawings etc. Prepare construction documents based on building construction rule for a given site. Emphasis is given on design quality in terms of formal, functional, and structural aspects to attain professional level of achievement, within a given socio-economic context.

**Arch 5104: Seminar**

Course Code	Arch 5104
Course Title	Seminar
Course Type	Core Course
Year/Semester	5th/Odd
Prerequisite (If any)	-
Credit Value	1.50
Contact Hours	3.00

**Course Contents**

Development of thesis proposal within a selected sensible context. Justifying the proposal with its socio-economic, cultural, environmental and physical rationality. Discussion, defence, explanation and communication through presentation of the proposal. Analysis, synthesis and program development for the course Arch 5202.

## Arch 5101: Research Methodology

Course Code	Arch 5101
Course Title	Research Methodology
Course Type	Core Course
Year/Semester	5th/Odd
Prerequisite (If any)	N/A
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Discussion on design methodology, design evaluation, problem identification & selection, research, design and approach, data collection, processing, analysing & forecasting, data presentation. Selection and analysis of a research topic related to architectural design issues/problems.

## Arch 5153: Survey Technique

Course Code	Arch 5153
Course Title	Survey Technique
Course Type	Core Course
Year/Semester	5th/Odd
Prerequisite	-
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Introduction; Principles and techniques of physical and socio-economic survey. Brief description of engineering survey methods. Analytical methods and their application; Fundamental quantitative techniques in demography, land-use, transportation, housing, physical infrastructure, services and community facilities.



## Hum 5107: Project Economics

Course Code	Hum 5107
Course Title	Project Economics
Course Type	Core Course
Year/Semester	5th /Odd
Prerequisite (If any)	N/A
Credit Value	2.00
Contact Hours	2.00

### Course Contents

Introduction; Theory of demand and supply; Utility; Theory of production, theory of cost; Market analysis. Trends in demand and supply in the construction industry. National economic cycles and its effects on the construction industry. Project planning - overview of planning. Generation and screening of project ideas feasibility study. Project analysis – market and demand analysis, technical analysis, financial analysis. Project selection and review - appraisal critters. Risk analysis. Social cost benefit analysis. Qualitative factors, strategic aspects and organizational considerations. Project review and administrative aspects. Physical and housing plan: Bangladesh context activities covered physical & housing plans fifth- five-year plan. Programs for fifth-five-year plan. Evaluation of past performance.

## 5th Year Even Semester

SL. No	Course Type	Course No.	Course Title	Contact Hours/Week	Credits
1.	Sessional	Arch 5202	Design Studio - X	21	10.5
2.		Arch 5204	Dissertation	6	3
3.	Theory Compulsory	Arch 5201	Professional Practice	2	2
4.		Hum 5207	Management and Accounting	2	2
5.	Non-credit Sessional Compulsory	Arch 5000	Professional Training	300	0
Total				31	17.5

No. of Theory Courses = 02  
 No. of Sessional Courses = 02

Total Contact Hour = 31  
 Total Credit = 17.5

**Arch 5202: Design Studio - X**

Course Code	Arch 5202
Course Title	Design Studio - X
Course Type	Core Course
Year/Semester	5th/Even
Prerequisite (If any)	Arch 5102: Design Studio - IX
Credit Value	10.50
Contact Hours	21.00

**Course Contents**

Preparation of design solutions based on investigation, analysis and synthesis of the physical, contextual and technical aspects of the problem. Focus on objective analysis and their transformation into a tangible architectural solution where professionally acceptable standard is accentuated.

**Arch 5204: Dissertation**

Course Code	Arch 5204
Course Title	Dissertation
Course Type	Core Course
Year/Semester	5th/Even
Prerequisite (If any)	N/A
Credit Value	3.00
Contact Hours	6.00

**Course Contents**

The final design is supported by a dissertation, drawing up from the existing body of knowledge rationalizing the parameters and standards of design and defining the programs. The course is linked to course no: Arch 5202.

**Arch 5201: Professional Practice**

Course Code	Arch 5201
Course Title	Professional Practice
Course Type	Core Course
Year/Semester	5th/Even
Prerequisite (If any)	Not Applicable
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Professional services; Professional codes and ethics; Architect-client relationship; Contracts and laws.

**Hum 5207: Management and Accounting**

Course Code	Hum: 5207
Course Title	Management and Accounting
Course Type	Core Course
Year/Semester	5th/Even
Prerequisite (If any)	Not Applicable
Credit Value	2.00
Contact Hours	2.00

**Course Contents**

Basic concepts and principles of management, Development of management skills, Management process in the organization; Planning, Organizing, Leading, and Controlling. Managing Projects and Project Management Techniques. Accounting definitions and objectives, Accounting Concepts and Cycle, Basic accounting equation, and transactions identification process, The Recording process, Financial Statements, and their analysis, Cost terms and classification, Costing methods, Statement of Costs, Break-Even Analysis, Budgeting and budgetary control, Standard Costing, and variance analysis.

## Arch 5000: Professional Training

Course No.	Arch 5000
Course Title	Professional Training
Course Type	Non-Credit Course
Year/Semester	5th/Even
Prerequisite	115 Cr. Completed

### Course Contents

The student is required to work in an architectural firm under an authorized architect/s for a minimum of 300 hours to gain practical experience. After completing 115 credits, a student may decide to acquire professional experience on part time basis under a member of Institute of Architects Bangladesh (IAB). At least 300 man-hours equivalent experience shall be needed to learn satisfactory engagement. The student shall submit a portfolio of his professional works at his convenience before final term to be evaluated by a board of examiners for a satisfactory certificate.

### TOTAL CREDIT CHART

Year	Semester	Contact Hours				Credits			
		Sessional	Theory (Compulsory)	Theory (Optional)	Total	Sessional	Theory (Compulsory)	Theory (Optional)	Total
1 <sup>st</sup> Year	Odd	18	11	-	29	9	11	-	20
	Even	18	11	-	29	9	11	-	20
2 <sup>nd</sup> Year	Odd	21	8	2	31	10.5	8	2	20.5
	Even	18	8	2	28	9	8	2	19
3 <sup>rd</sup> Year	Odd	24	6	2	32	12	6	2	20
	Even	24	6	2	32	12	6	2	20
4 <sup>th</sup> Year	Odd	21	6	2	29	10.5	6	2	18.5
	Even	21	6	2	29	10.5	6	2	18.5
5 <sup>th</sup> Year	Odd	24	6	-	30	12	6	-	18
	Even	27	4	-	31	13.5	4	-	17.5
		<b>Total Contact Hours for B. Arch. Courses</b>		<b>300</b>		<b>Total Credits for B. Arch. Courses</b>		<b>192</b>	

