

# Nitte University

(Deemed University under Section 3 of the UGC Act, 1956)  
(Placed under Category 'A' by MHRD, Govt. of India)  
Mangalore, Karnataka, India

## Regulations and Course Curriculum For Bachelor of Architecture (B.Arch) Program Choice Based Credit System

### Preamble:

The Bachelor of Architecture (B.Arch) Program has been started in the year 2015-16 by Nitte University to impart architectural education. The regulations for this course are formulated as under.

### 1. Introduction:

- 1.1. These regulations shall be called Nitte University Regulations for Bachelor of Architecture (B.Arch) program and govern the policies and procedures including selection, admission, imparting of instructions, conduct of examinations, evaluation and certification of candidate's performance and all amendments there to, leading to the award of Bachelor of Architecture (B.Arch) degree. The regulations shall come into effect from the academic year 2015-16 and is applicable to the batch admitted from 2015-16 and onwards.
- 1.2. This set of regulations is in conformance to the stipulation, norms and regulations laid down by the Council of Architecture – Minimum Standards of Architectural Education – 2008” and shall be binding on all the candidates undergoing the said degree program.
- 1.3. These regulations may be modified from time to time as mandated by the statutes of the University and the Council of Architecture (CoA).
- 1.4. This set of regulations may evolve and get refined or updated or amended or modified or changed through appropriate approvals from the Academic Council or the Board of Management from time to time and shall be binding on all parties concerned including the Candidates, Faculty, Staff, Departments, and Institution Authorities.
- 1.5. All disputes arising from this set of regulations shall be addressed to the Board of Management. The decision of the Board of Management is final and binding on all parties concerned. Further, any legal disputes arising out of this set of regulations shall be limited to jurisdiction of Courts of Mangalore only.

### 2. Definitions:

Unless the context otherwise requires,

- *Academic year* means two consecutive (one odd + one even) semesters.
- *Audit Course* means course/s aimed at supplementing a candidate's knowledge and /or skills. These will be reflected in the grade card but shall not be taken into account in determining the candidate's performance in the semester. However, it is mandatory that a candidate passes the audit course to be eligible for the award of the degree.
- *BoM* means Board of Management of Nitte University
- *BoS* means Board of Studies in Architecture

- *CoA* means Council of Architecture
- *College/Institution* means Nitte Institute of Architecture
- *Course* means a subject or a paper. A course may comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
- *CIE* means Continuous Internal Evaluation
- *Credit* means a unit by which the course work is measured. It determines the number of hours of instruction required per week. One credit is equivalent to one hour of teaching (lecture), or one and a half studio hours, or two hours of workshop, tutorial practical training per week.
- *Credit Based Semester System (CBSS)*: means a system wherein the requirement for awarding a degree (or diploma or certificate) prescribed in terms of number of credits to be completed by the candidates.
- *Cumulative Grade Point Average (CGPA)*: means a measure of the overall cumulative performance of a candidate all ten semesters out together. The CGPA is the ratio of total credit points secured by a candidate in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- *Department* means Department of Architecture.
- *Grade Point* means a numerical weight allotted to each letter grade on a 10-point scale.
- *He* includes both genders He and She; similarly his and /or him, himself includes her, as well in all cases.
- *Head of the Institution* means the Dean / Principal / Director of the College (Nitte Institute of Architecture)
- *Head of the Department* means a full-time faculty appointed/nominated by the Head of the Institution / University for managing the Department and authorized to and responsible for the implementation of the rules and procedures pertaining to the Department.
- *Letter Grade* It is an index of the performance of a candidate in a said course. Grades are denoted by letters O, S, A+, A, B+, B, C, and F.
- *Program* means an educational program leading to award of a Degree (B.Arch)
- *Regulations* means this set of academic regulations
- *SEE* means Semester End Examinations
- *Semester Grade Point Average (SGPA)* means a measure of performance of work done in a semester. It is ratio of total credit points secured by a candidate in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- *University* means Nitte University

### **3. Duration of the program:**

- 3.1 The duration of the B. Arch program shall be 5 academic years (10 semesters) including internship, and 3 special study courses in the interim summer months.
- 3.2 The program is framed as a two stage process – Stage 1 consisting of the first 3 academic years (semesters 1 to 6) and Stage 2 consisting of 2 years (semesters 7 to 10).

### **4. Medium of Instruction and Examinations:**

The Medium of Instruction and Examination shall be English.

### **5. Maximum period for completion of the Program:**

The maximum period for completion of Bachelor of Architecture (B.Arch) program is ten (10) academic years.

### **6. Eligibility for Admission:**

- 6.1. No candidate shall be admitted to the Bachelor of Architecture (B.Arch) Program until he/she has attained 17 years of age on or before 31st December of the admission year

and

has passed 2 years PUC examination of PUE Board, Karnataka or an equivalent examination of any other approved Board or University with not less than 50% marks in aggregate with Mathematics as one of the subjects of examination OR 10+3 Diploma (any stream) recognized by Central/ State Governments with 50% aggregate marks. OR International Baccalaureate Diploma, after 10 years of schooling, with not less than 50% marks in aggregate and with Mathematics as compulsory subject of examination

and

has scored a minimum of 40% marks in the National Aptitude Test in Architecture (NATA) conducted in the year of admission.

- 6.2. For SC/ST candidates the minimum percentage of marks shall be a pass with 45% of the aggregate marks in the qualifying examination and a minimum of 40% marks in the National Aptitude Test in Architecture (NATA) conducted in the year of admission
- 6.3. Foreign Nationals and candidates who have qualified from a Foreign University/Board should obtain permission from Nitte University prior to the admission for equivalence of the qualification.

### **7. Selection of Eligible Candidates:**

Selection to the B. Arch program shall be based on the basis of combined merit obtained in the qualifying examination and the NATA in the ratio of 50:50.

### **8. Withdrawal – Temporary and Permanent:**

#### **8.1. Temporary:**

- 8.1.1. A candidate who has been admitted to the program may be permitted to withdraw temporarily for a period of six months or more up to one year on the grounds of prolonged illness, grave calamity in the family, etc. provided:
- a. He applies stating the reason of withdrawal with supporting documents and endorsement by parent/guardian.
  - b. The Institution is satisfied that the candidate is likely to complete his requirement of

the degree within maximum time specified.

c. There are no outstanding dues or demands with the department, library, hostel, Institution, etc.

8.1.2. The tuition fee for the subsequent year may be collected in advance based on The severity of the case before giving approval for any such temporary withdrawal.

8.1.3. Scholarship holders are bound by the appropriate rules applicable

8.1.4. The decision of the Institution/University regarding withdrawal of a candidate is final and binding.

## **8.2. Permanent:**

8.2.1. A candidate who withdraws admission before closing date of admission for the academic session is eligible for the refund of the deposit only. The fees once paid will not be refunded on any account.

8.2.2. Once the admission for the year is closed and if a candidate wants to leave the Institution, he will be permitted to do so and take the Transfer Certificate from the Institution /University, if required, only after remitting the tuition fees for the remaining years.

8.2.3. Those candidates who have received any scholarship/stipend/other forms of assistance from the Institution shall repay all such amounts in addition to those mentioned in the clause above.

8.2.4. The decision of the Institution/University regarding withdrawal of a candidate is final and binding.

## **9. Conduct and Discipline:**

9.1. Candidates shall conduct themselves within and outside the premises of the Institution in a manner befitting a student of a professional education institution.

**9.2. As per the order of Honourable Supreme Court of India, ragging in any form is considered as a criminal offence and is banned. Any form of ragging will be severely dealt with.**

9.3. The following act of omission and/or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures:

9.3.1. Ragging as defined and described by the Supreme Court/Government.

9.3.2. Lack of courtesy and decorum, indecent behaviour anywhere within or outside the campus.

9.3.3. Wilful damage or stealthy removal of any property/belongings of the Institution/Hostel or of fellow students/citizens.

9.3.4. Possession, consumption or distribution of alcoholic drinks or any kind of hallucinogenic drugs.

9.3.5. Mutilation or unauthorized possession of library books.

9.3.6. Noisy or unseemly behaviour, disturbing studies of fellow students.

9.3.7. Plagiarism of any nature.

9.3.8. Hacking of computer systems (such as entering into other person's domain without prior permission, manipulation and/or damage to the computer hardware and software or any other cyber crime, etc.)

9.3.9. Any other act of gross indiscipline as decided by the Board of Management from time to time.

- 9.4. Commensurate with the gravity of offense, the punishment may be: reprimand, fine, expulsion from the hostel, debarment from an examination, disallowing the use of certain facilities of the Institution, rustication for a specific period or even outright expulsion from the institute, or even handing over the case to appropriate law enforcement authorities or the judiciary, as required by the circumstances.
- 9.5. For any offence committed in - (i) a hostel, (ii) a department (iii) a class room, and (iv) elsewhere, the Chief Warden, the Head of the Department/ Head of the Institution/ Authorities of the University respectively, shall have the authority to reprimand or impose fine.
- 9.6. All cases involving punishment other than reprimand shall be reported to the Vice- Chancellor.
- 9.7. Cases of adoption of unfair means and/or any malpractice in an examination shall be reported to the Controller of Examinations for taking appropriate action.

#### 10. Graduation Requirements:

Candidate shall be declared eligible for the award of the degree if he has:

- Fulfilled the degree requirements.
- No dues to the University, Institution, Departments, Hostels, Library, etc.
- No disciplinary action pending against him.

The award of the degree must be recommended by the Board of Management.

#### 11. Convocation:

Degrees will be awarded in person to all the eligible candidates who have graduated during the preceding academic year at the annual convocation. For eligible candidates who are unable to attend the convocation, degree will be sent by post. Candidates are required to apply for the convocation along-with prescribed fee within the specified date, after satisfactory completion of all degree requirements.

#### 12. Structure of the program:

The program is structured on Credit Based System and Continuous Evaluation following the semester pattern. A candidate shall have earned a total of **234** credits to be eligible for the award of B.Arch degree of the University.

#### The Program consists of the following Courses:

Core Courses	Foundation Courses	Electives
1. Foundation Studio	1. Computer Applications in Architecture	<b>Stage 1 Electives*</b> - Refer next table
2. Architectural Graphics	2. Dissertation and Research Techniques	<b>Stage 2 Electives**</b> - Refer next table
3. Architectural Graphics (Computing)	3. Humanities	
4. Visual Arts	4. Ecology	
5. Building Construction and Materials	5. Creative Expression Workshop	
6. Architectural Design Studio	6. Art Appreciation	
7. Working Drawing Studio	7. Constitution of India	
8. History of Architecture	8. Urban Studio	
9. History of Architecture and Urbanism	9. Structures Workshop	
10. Structures	10. Human Rights, Gender Equity and Environmental Studies	
11. Urban Housing Studio		
12. Environmental Design Studio	11. Internship	
13. Water and Waste Systems	12. Co-operative Learning	
14. Survey and Levelling	13. Workshop	
15. Theory of Design	14. Field Trip	

16. Electrical and Lighting Systems	15. Contemporary Architecture and Theory	
17. Climatology and Building Physics	16. Urban Design	
18. Mechanical Systems	17. Landscape Design	
19. Specification		
20. Quantities and Estimation		
21. Building Codes		
22. Professional Practice		
23. Project Management and Building Economics		
24. Capstone Project		

Stage 1 Electives*		Stage 2 Electives**	
1. Architectural Journalism	11. Contemporary Architecture and Theory-1	1. LEED Lab – 1	12. Theatre/Film Set Design
2. Architectural Photography	12. Smart Materials and Structures	2. LEED Lab – 2	13. Intelligent Buildings
3. Art in Architecture	13. Visual Communication	3. Housing	14. Design and Build Projects
4. Critical Thinking	14. Sustainable Architecture	4. Emerging Technologies	15. Advanced Building Materials
5. Digital Architecture	15. Smart Materials and Structures	5. Interior Design	16. Advanced Structures
6. Facilities Planning	16. Steel in Architectural Design	6. Construction Management	17. Tall buildings
7. Energy Efficient Architecture	17. Environmental Planning and Design	7. Disaster Management	18. Remote Sensing & GIS
8. Construction Systems	18. Building Automation Systems	8. Life cycle Costing and Analysis	19. Bio-mimicry
9. Passive Design	19. Tropical Architecture – 1	9. Building Commissioning	20. Finance and Engineering Integration
10. Expert Systems Advanced Computing	20. Tropical Architecture – 2	10. Integrated Systems Management	21. Contemporary Architecture and Theory-2
		11. Charettes and Participatory Planning	22. Integrated Design Process

### 13. Courses of Study & Training and Scheme of Examination:

#### SEMESTER 1 (Commencement of Stage 1)

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1.	Foundation Studio - 1	Studio	1:1.5	6	9	-	600	300	300	-	300	-	N/A
2.	Architectural Graphics - 1	Studio	1:1.5	4	6	-	400	200	200	-	200	-	N/A
3.	Building Construction and Materials - 1	Studio	1:1.5	4	4	2	400	200	200	-	100	100	4 hrs.
4.	Visual Arts - 1	Studio	1:1.5	4	6	-	400	200	200	-	200	-	N/A
5.	History of Architecture - 1	Lecture	1:1	3	-	3	300	150	150	-	-	150	3.5 hrs.
6.	Structures -1	Lecture	1:1	3	-	3	300	150	150	-	150	-	N/A
<b>Total</b>				<b>24</b>	<b>25</b>	<b>08</b>	<b>2400</b>						
7.	Workshop - 1	Workshop		Audit	6		150	150	-	-	-	-	
8.	Ecology	Lecture		Audit		2	50	50	-	-	-	-	
<b>Total</b>					<b>06</b>	<b>02</b>	<b>200</b>						

**Note:**

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\*Written exam for Building Construction and Materials – 1 will comprise of a theory paper and a drawing paper.

\*Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.

## SEMESTER 2

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credit	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1.	Foundation Studio - 2	Studio	1:1.5	4	6	-	600	300	300	60	240	-	N/A
2.	Architectural Graphics - 2	Studio	1:1.5	3	5	-	300	150	150	30	120	-	N/A
3.	Building Construction and Materials - 2	Studio	1:1.5	4	4	2	400	200	200	40	60	100	4 hrs.
4.	Visual Arts - 2	Studio	1:1.5	4	6	-	400	200	200	40	160	-	N/A
5.	History of Architecture and Urbanism - 1	Lecture	1:1	2	-	2	200	100	100	-	-	100	3 hrs.
6.	Theory of Design - 1	Lecture	1:1	2	-	2	200	100	100	20	80	-	N/A
7.	Structures - 2	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
8.	Survey and Levelling	Studio	1:1.5	2	3	-	200	100	100	20	80	-	N/A
<b>Total</b>				<b>24</b>	<b>24</b>	<b>9</b>	<b>2600</b>						
9.	Creative Expression Workshop	Workshop	-	Audit	2	-	100	100					
10.	Field Trip	Field trip	-	Audit		-	100	100					
<b>Total</b>					<b>02</b>		<b>200</b>						

### Note:

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\*Written exam for Building Construction and Materials – 2 will comprise of a theory paper and a drawing paper.

\* Surveying and Levelling will be a practical exam / viva

\*Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.



**OPTIONAL 1ST YEAR SUMMER**

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	CIE	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
<b>1</b>	<b>Special Study</b>	Internship / Workshop / Independent Study / Research	1:2	4	8		400	200	200	100	100		N/A
				<b>4</b>	<b>8</b>	<b>0</b>	<b>400</b>	<b>200</b>	<b>200</b>	<b>100</b>	<b>100</b>		

**\*Evaluation of Portfolios through jury presentation / term paper / employer evaluation/ seminar / jury panel.**

### SEMESTER 3

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1.	Architectural Design Studio - 1	Studio	1:1.5	4	6	-	400	200	200	40	160	-	N/A
2.	Architectural Graphics (Computing) - 1	Studio	1:1.5	4	6	-	400	200	200	40	160	-	N/A
3.	Building Construction and Materials - 3	Studio	1:1.5	4	4	2	400	200	200	40	60	100	4 hrs.
4.	History of Architecture and Urbanism - 2	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
5.	Theory of Design - 2	Lecture	1:1	2	-	2	200	100	100	20	80	-	N/A
6.	Structures - 3	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
7.	Climatology and Building Physics	Lecture	1:1	2	-	2	200	100	100	-	-	100	3 hrs.
8.	Art Appreciation	Lecture	1:1	2		2	200	100	100	20	80		N/A
<b>Total</b>				<b>24</b>	<b>16</b>	<b>14</b>	<b>2400</b>						
9.	Humanities	Lecture		Audit		2	100	100	-	-	-	-	-
10.	Elective*	Workshop		Audit	3		100	100	-	-	-	-	-
<b>Total</b>					<b>03</b>	<b>02</b>	<b>200</b>						

**Note:**

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\*Written exam for Building Construction and Materials – 3 will comprise of a theory paper and a drawing paper.

\*Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.

**\*\*Electives:**

Architectural Journalism	Art in Architecture	Visual Communication
Architectural Photography	Passive Design	Smart Materials and Structures

## SEMESTER 4

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credit	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1.	Architectural Design Studio - 2	Studio	1:1.5	6	9	-	600	300	300	60	240		N/A
2.	Architectural Graphics (Computing) - 2	Studio	1:1.5	4	6	-	400	200	200	40	160		N/A
3.	Building Construction and Materials - 4	Studio	1:1.5	2	3	-	200	100	100	20	80		N/A
4.	History of Architecture and Urbanism - 3	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
5.	Theory of Design - 3	Lecture	1:1	2	-	2	200	100	100	20	80		N/A
6.	Structures - 4	Lecture	1:1	4	-	4	400	200	200	40	60	100	3 hrs.
7.	Water and Waste Systems	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
<b>Total</b>				<b>24</b>	<b>18</b>	<b>12</b>	<b>2400</b>						
8.	Constitution of India	Lecture		Audit		2	100	100					
9.	Elective**	Lecture		Audit	3	-	100	100					
10.	Field Trip	Field trip		Audit			100	100					
<b>Total</b>					<b>03</b>	<b>02</b>	<b>300</b>						

**Note:**

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\*Evaluation of Building Construction and Materials – 4 will be through portfolio/viva evaluation.

\* Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.

**\*\*Electives:**

Critical Thinking	Construction Systems	Building Automation Systems
Digital Architecture	Sustainable Architecture	Energy Efficient Architecture

**OPTIONAL 2ND YEAR SUMMER**

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	CIE	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Special Study	Internship / Workshop / Independent Study / Research	1:2	4	8		400	200	200	100	100		N/A
				4	8	0	400	200	200	100	100		

\*Evaluation of Portfolios through jury presentation / term paper / employer evaluation/ seminar / jury panel.

**SEMESTER 5**

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credit	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Architectural Design Studio - 3	Studio	1:1.5	4	6	-	400	200	200	40	160	-	N/A
2	Working Drawing Studio	Studio	1:1.5	4	6	-	400	200	200	40	160	-	N/A
3	Theory of Design - 4	Lecture	1:1	2	-	2	200	100	100	20	80	-	N/A
4	Structures - 5	Lecture	1:1	4	-	4	400	200	200	40	60	100	3 hrs.
5	Quantities and Estimation	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
6	Specification	Lecture	1:1	2	-	2	200	100	100	-	-	100	3 hrs.
7	Electrical and Lighting Systems	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
8	Building code	Lecture	1:1	2	-	2	200	100	100	20	80		N/A
<b>Total</b>				<b>24</b>	<b>12</b>	<b>16</b>	<b>2400</b>						
9	Human Rights, Gender Equity and Environmental Studies	Lecture		Audit	-	2	100	100	-	-	-	-	-
10	Elective**	Workshop		Audit	3		100	100	-	-	-	-	-
11	Elective**	Lecture		Audit		2	100	100	-	-	-	-	-
<b>Total</b>					<b>03</b>	<b>04</b>	<b>300</b>			-	-	-	-

**Note:**

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\* Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.

**Electives:**

**\*\*Electives:**

Tropical Architecture – 1	Contemporary Architecture and Theory – 1	Expert Systems Advanced Computing
Steel in Architectural Design	Environmental Planning and Design	Facilities Planning

Note: Candidates opting for “Co-operative Learning” in the 6<sup>th</sup> semester shall attend a ‘Co-op Prep’ course during the 5<sup>th</sup> semester.

**SEMESTER 6: CO-OP (Completion of Stage 1)**

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Computer Applications in Architecture	Studio	1:1.5	2	3	-	200	100	100	20	80	-	N/A
2	Co-operative learning	Studio	1:2	14	28	-	1400	700	700	140	560	-	N/A
3	Structures Workshop -1	Lecture	1:1	2		2	200	100	100	20	80	-	N/A
<b>Total</b>				<b>18</b>	<b>31</b>	<b>02</b>	<b>1800</b>						
4	Elective ** (Documentation)	Studio		Audit	4	-	100	100	50	-	-	-	-
<b>Total</b>					<b>04</b>	<b>-</b>	<b>100</b>						

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\*\* **Electives related to documentation of Tropical Architecture in any form with advisor approval (Tropical Architecture – 2)**

\* Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.

**OPTIONAL 3RD YEAR SUMMER**

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	CIE	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Special Study	Internship / Workshop / Independent Study / Research	1:2	4	8		400	200	200	100	100		N/A
				4	8	0	400	200	200	100	100		

\*Evaluation of Portfolios through jury presentation / term paper / employer evaluation/ seminar / jury panel.

### SEMESTER 7 (Commencement of Stage 2)

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credit	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Urban Studio	Studio	1:1.5	9	12	-	900	450	450	90	360	-	N/A
2	Building Construction and Materials - 5	Studio	1:1.5	2	4	-	200	100	100	20	80	-	N/A
3	Urban Design	Lecture	1:1	2	-	2	200	100	100	20	80	-	N/A
4	Structures Workshop - 2	Lecture	1:1	3	-	3	300	150	150	30	120	-	N/A
5	Elective**	Lecture	1:1	2	-	2	200	100	100	20	80	-	N/A
6	Elective**	Lecture	1:1	2	-	2	200	100	100	20	80	-	N/A
<b>Total</b>				<b>20</b>	<b>16</b>	<b>09</b>	<b>2000</b>						
7	Field Trip	Field Trip		Audit			100	100	-	-	-	-	-
<b>Total</b>							<b>100</b>						

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\*Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.

#### \*\*Electives:

LEED Lab – 1	Theatre/Film Set Design	Interior Design
Emerging Technologies	Bio Mimicry	Advanced Building Materials
Housing	Construction Management	Charettes and Participatory Planning

Note: 'Urban Studio' is designed to be a travelling studio with location based on availability of live urban projects



**SEMESTER 8**

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Urban Housing Studio	Studio	1:1.5	6	9	-	600	300	300	60	240	-	N/A
2	Environmental Design Studio	Studio	1:1.5	4	6	-	400	200	200	40	160	-	N/A
3	Building Construction and Materials - 6	Studio	1:1.5	2	3	-	200	100	100	20	80	-	N/A
4	Dissertation and Research Techniques	Workshop	1:2	2	4	-	200	100	100	20	80	-	N/A
5	Landscape Design	Lecture	1:1	2	-	2	200	100	100	-	-	100	3 hrs.
6	Mechanical systems	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
7	Project Management and Building Economics	Lecture	1:1	3	-	3	300	150	150	30	120	-	N/A
8	Elective**	Lecture	1:1	2	-	2	200	100	100	20	80	-	N/A
<b>Total</b>				<b>24</b>	<b>22</b>	<b>10</b>	<b>2400</b>						
9	Field Trip	Field Trip		Audit	-		100	100	-	-	-	-	-
<b>Total</b>							<b>100</b>						

\*Evaluation of Portfolios through jury presentation / term paper / assignment / seminar.

\*Audit courses shall be evaluated by college level examinations and shall be held before the commencement of the University examinations. A pass in the course (45% of the maximum allotted marks) is compulsory in order to be eligible for the award of degree. Failed candidates shall appear for the examination in the subsequent semester. Failing in audit courses shall not be considered as an attempt. These marks shall not be considered for the award of class. These courses have to be passed before the candidate appears for the tenth semester examinations.

\*\*Electives:

LEED Lab – 1	LEED Lab – 2	Advanced Structures	Intelligent Buildings
Building Commissioning		Integrated Design Process	Contemporary Architecture and Theory – 2

**OPTIONAL 4TH YEAR SUMMER**

Courses of Study and Training							Scheme of Examination						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	CIE	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Special Study	Internship / Workshop / Independent Study / Research	1:2	4	8		400	200	200	100	100		N/A
				4	8	0	400	200	200	100	100		

\*Evaluation of Portfolios through jury presentation / term paper / employer evaluation/ seminar / jury panel.

### SEMESTER 9: INTERNSHIP

Courses of Study and Training					Scheme of Examination								
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Internship	Internship	1:2	18	36		1800	900	900	180	720	-	N/A
<b>Total</b>				<b>18</b>	<b>36</b>	<b>0</b>	<b>1800</b>						

**\*Evaluation of Portfolios through jury presentation / seminar / employer assessment.**

### SEMESTER 10 (Completion of Stage 2)

COURSES OF STUDY and TRAINING							SCHEME OF EXAMINATION						
Sl.No.	Name of Courses	Course Format	Credits : Contact hours	Credits	No of Teaching Hours / Week		Marks			SEE Evaluation			
					Studio / Practical	Lecture	Total Marks (CIE+SEE)	CIE	SEE	Portfolio/Viva*		Written	
										Int.	Ext.	Marks	Duration of Exam
1	Capstone Project	Studio	1:1.5	12	18	-	1200	600	600	120	480	-	N/A
2	Professional Practice	Lecture	1:1	3	-	3	300	150	150	20	30	100	3 hrs.
3	Elective **	Lecture	1:1	4	-	4	400	200	200	40	160	-	N/A
4	Elective**	Seminar	1:1	3	-	3	300	150	150	30	120	-	N/A
<b>Total</b>				<b>22</b>	<b>18</b>	<b>10</b>	<b>2200</b>						

\*Evaluation of the Capstone Project will take place as a Jury presentation / Seminar.

\*Portfolios evaluated through jury presentation / seminar / term paper.

**\*\*Electives:**

LEED Lab – 2	Integrated Systems Management	Finance and Engineering Integration
Life cycle Costing and Analysis	Building Performance Simulation	Design and Build Projects
Tall buildings	Disaster Management	Remote Sensing and GIS

### **13.1 Co-op Education, Internship/Practical training, and Special Study Courses:**

As a partial fulfilment of the requirements of the B.Arch program a candidate is required to complete Co-operative Learning, Internship or Practical training, and Special study courses.

#### **13.1.1 Co-operative Education:**

Cooperative education is experiential learning beyond the classroom that balances full-timework experience with academics which is adequately supervised and evaluated, and discipline related. Students gain practical experience in their chosen field, acquire an understanding of the world of work, integrate theory and practice, and have the opportunity to further develop professional and interpersonal skills.

13.1.11 Students in the sixth semester will use the cooperative education model as

Integrated learning pattern semester and do a “Co-operative learning” course.

13.1.12 Candidates opting for “Co-operative learning” in the 6<sup>th</sup> semester shall attend a ‘Co-op Prep’ course during the 5<sup>th</sup> semester.

#### **13.1.2 Internship/ Practical training:**

Students will have to undergo at least one-hundred working days of internship in the ninth semester as per the norms laid by the Council of Architecture, India in an approved firm established not less than five years with a registered architect.

#### **13.1.3 Special Study Courses:**

To fulfil the requirements of the B.Arch program a candidate is required to complete 12 credits of Special Study courses in addition to the 222 credits mandated by the program.

13.1.31 Such courses may be offered by the institution itself either during the semester or during vacations in workshop or lecture format.

13.1.32 Students taking up special studies in other forms should seek approval of the institution.

13.1.33 A candidate taking up Special Study Courses in summer will be graded and marks reflected in the last semester marks sheet.

### **13.2 Electives:**

13.2.1 A minimum number of ten candidates shall be required to offer and conduct an elective course.

13.2.2 Electives shall be offered based at the discretion of the institution.

### **13.3 Course Format:**

Course format refers to the way a course is taught, delivered or learned. Lecture and Studio formats are the most common. Other formats include workshop, independent study, research, internship, seminar, and field trip.

#### **13.3.1 Lecture:**

Lecture usually involves an intense, direct and focused presentation of concepts and learning of a specific course of study.

#### **13.3.2 Studio:**

Studio is one in which hands-on instruction is received in various courses involving drawing/sketching/skill like Design, Building Construction & Materials, Visual Arts and Graphics.

### **13.3.3 Workshop:**

Workshop usually involves hands-on work toward development of a skill. Workshops also allow discussion, interaction, presentation and debate on a given topic.

### **13.3.4 Independent Study:**

Independent study is directed study undertaken by the candidate with guidance from the faculty/ instructor for specific number of credits. Candidates may pursue a topic of interest that does not necessarily fit into the curriculum.

### **13.3.5 Research:**

Research requires a candidate to spend time surveying, investigating and evaluating a field of knowledge that culminates in a paper where the candidate presents his own interpretation, evaluation, or argument about a subject to thoughtfully offer a unique perspective on the issue.

### **13.3.6 Internship:**

Internship involves professional job training.

### **13.3.7 Seminar:**

Seminar is an intense study of a specific topic that could culminate in term papers, presentations.

### **13.3.8 Field trip:**

Field trip is travel away from the class environment to observe, explore, study and experience places first hand.

## **14. Attendance**

14.1 A candidate shall study in the Institution for the entire period as a full time student. No candidate should register for any other degree examination conducted by this University or any other University in India or abroad during the period of study.

14.2 Each semester shall be taken as a unit for the purpose of calculating attendance.

14.3 A candidate who has put in a minimum of 80% of attendance in the theory and practical/studio/workshop etc separately and who has fulfilled other requirements of the program shall be permitted to appear for University examinations.

14.4 A candidate having shortage of attendance shall not be eligible to answer the university examination and move to the higher semester.

## **15. Examination and Assessment:**

There shall be a University examination at the end of each semester.

### **15.1 Scheme of Examination:**

Evaluation is based on formative evaluation (Continuous Internal Evaluation) and summative evaluation (Semester End Examination).

#### **15.1.1 Continuous Internal Evaluation (CIE)**

CIE is calculated on the basis of sessional examinations and assignments, seminars etc. There shall be three sessional examinations and the average of the best two shall be

considered for calculating the internal assessment. In order to get the benefit of 'best two', a candidate is required to answer all the three sectionals, failing which the average of the three shall be taken.

A candidate must secure at least 45% of total marks fixed for internal assessment in particular course in order to be eligible to appear for the Semester End Examination of that course.

#### **15.1.2 Semester End Examination (SEE):**

A candidate who satisfies the requirements of attendance, progress and conduct shall be eligible to appear for the university examinations. There shall be a University Examination at the end of each semester.

To be eligible to appear for University examination a candidate should fulfill all the following conditions.

- a. undergone satisfactorily the approved program of study in the course/courses for the prescribed duration;
- b. 80% attendance separately in theory and in practical/Studio/workshop, in each course;
- c. shall have the minimum attendance requirement in all courses of that semester for the first appearance;
- d. secure at least 45% of total marks fixed for internal assessment in a particular course ; and
- e. fulfil any other requirement that may be prescribed by the University from time to time.

#### **15.2. Assessment Procedure:**

The academic performance is assessed on the basis of both continuous internal evaluation (CIE) assessment and semester end examination (SEE) in each semester. CIE: SEE weightage will be in the ratio of 50:50.

It is mandatory for a candidate to appear for the semester-end examination/ supplementary examination in each of the prescribed courses.

In case of project work the final evaluation will be based on the content of the report/portfolio, presentation by the candidate and a viva-voce examination. If the presented work is not satisfactory the candidate will be given grade F (Fails) and shall continue the project work and appear for assessment in the next semester.

#### **15.3 Criteria for Pass:**

A candidate is declared to have passed in a course, if he secures not less than 50% in the aggregate, i.e. total CIE and SEE put together, provided he secures a minimum of 45% of the marks separately in the Continuous Internal Evaluation (CIE), Semester End Examination (SEE) and External Examination (EE) fixed for the course.

A candidate who fails in theory or in practical examination in a course shall appear only for that part of the examination or for both theory and practicals as the case may be in that course in the subsequent examination.

## 16. Academic Performance Evaluation:

### 16.1 Grading System:

The performance of a candidate shall be evaluated according to a Letter Grading System, based on the both CIE and SEE, provided he passes CIE, SEE and EE separately. The letter grades (O, S, A, B, C and F) indicate the level of academic achievement assessed on a 10 point scale (0 to 10).

Marks Range (%)	Grade Point	Letter Grade	Descriptor	Classification	CGPA
90 & above	10	O	Outstanding	I Class with Distinction	9.00 and above
80-89	9	S	Excellent		8.00- 8.99
75-79	8	A+	Very Good		7.50-7.99
65-74	7	A	Good	I Class	6.50-7.49
60-64	6	B	Average	II Class	6.00-6.49
50-59	5	C	Pass		5.00-5.99
Below 50	0	F	Fails		Fails
Below 50	0	I	Absent		

16.1.1 A candidate shall be considered to have completed a course successfully and earned the credits assigned, if he secures an acceptable letter grade in the range O-C. Letter grade 'F' in any course implies failure in that course and no credit is earned.

16.1.2 A candidate having satisfactory attendance at classes and meeting the passing standard at CIE in a course, but remained absent from SEE shall be awarded 'I' grade in that course.

### 16.2 Grade Point Averages:

The overall performance of a candidate will be indicated by Grade Point Average (GPA). For each course grade points will be awarded as per a letter grading system.

Semester Grade Point Average (SGPA) is computed as follows:

$$\text{SGPA} = \frac{\sum [( \text{course credit} ) \times ( \text{Grade point} )] \text{ for all courses with Letter grades, including F}}{\sum [( \text{course credits} )] \text{ for all courses with Letter grades, including F}}$$

Cumulative Grade Point Average (CGPA) is computed as follows:

$$\text{CGPA} = \frac{\sum [( \text{course credit} ) \times ( \text{Grade point} )] \text{ for all courses for all semesters with, Letter grades excluding F}}{\sum [( \text{course credits} )] \text{ for all courses for all semesters with Letter grades, excluding F}}$$

### 16.3 Conversion of Grades into Percentage:

Formula for conversion of GPA into percentage: CGPA earned X10 = Percentage of marks scored

Illustration: (CGPA Earned 8.18 X 10) = 81.80 %

#### 16.4 Award of Class:

The candidate, who has passed all the courses prescribed, shall be declared to have passed the program. Class will be awarded only to those who pass the entire examination in the first attempt and on the basis of the aggregate of marks scored in individual semester.

- A candidate who secures  $GPA \geq 7.50$  and above in first attempt shall be declared to have passed in 'First Class with Distinction'.
- A candidate who secures  $GPA \geq 6.50$  or more but less than 7.50 in the first attempt shall be declared to have passed in 'First Class'.
- A candidate who secures  $GPA \geq 5.00$  or more but less than 6.50 in the first attempt shall be declared to have passed in 'Second Class'.

Candidates who pass the examinations in more than one attempt shall be declared as passed in 'Pass' class irrespective of the percentage of marks secured.

An attempt means the appearance of a candidate for one or more courses either in part or full in a particular examination.

If a candidate submits application for appearing for the examination but does not appear for any of the courses either in full or part in the university examination, he can appear for supplementary examination provided other conditions such as attendance requirement, internal assessment marks, etc are fulfilled and his appearing in the supplementary examination shall be considered as the first attempt.

#### 16.5 Carry over:

A candidate shall appear for all the subjects of that particular semester in the University examinations but failed in that semester can avail this benefit provided:

- a. A candidate who fails in I semester is allowed to move to II semester. A candidate with backlog subjects shall take both I semester backlog papers as well as II semester papers. Candidate with a backlog of not more than 2 papers in I & II semester put together is allowed to go to the III semester.
- b. A candidate who fails in not more than 2 subjects of II semester and III semester (put together) and not having backlog of I semester papers is only permitted to go to IV semester.
- c. A candidate who fails in not more than 2 subjects of III semester and IV semester (put together) and not having backlog of II semester papers is only permitted to go to V semester.
- d. A candidate who fails in not more than 2 subjects of IV semester and V semester (put together) and not having backlog of III semester papers is only permitted to go to VI semester.
- e. A candidate who fails in not more than 2 subjects of V semester and VI semester (put together) and compulsorily completed co-operative learning of VI semester and not having backlog of IV semester papers is only permitted to go to VII semester.
- f. A candidate who fails in not more than 2 subjects of VI semester and VII semester (put together) and not having backlog of V semester papers is only permitted to go to VIII semester.



- g. A candidate who fails in not more than 2 subjects of VII semester and VIII semester (put together) and not having backlog of VI semester papers is only permitted to go to IX semester.
- h. The candidate will be promoted to the X semester and be permitted to answer the thesis examination provided he has passed all subjects of all the previous semesters without any backlog subjects. Only such candidate on successful completion of the X semester examination will be eligible for award of B.Arch degree.

**16.6 Rules for Grace Marks:**

Grace marks upto 1% of the maximum total marks in the examination subject to a maximum of 5 marks shall be awarded to the failed course(s), provided on award of grace marks the candidate passes in that course(s)/ examination. There shall be no provision to award grace marks for improvement of class

**16.7 Re-totalling:**

Re-totalling of marks is permitted only for theory papers. The University, on application within the stipulated time and remittance of a prescribed fee, shall permit a recounting of marks for the course/s applied. The marks obtained after re-totalling shall be the final marks awarded.

**17. Supplementary Examinations:**

Supplementary examination shall be conducted by the university for the benefit of unsuccessful candidates. Lower semester examinations shall be conducted by the University along with current semester examinations for the benefit of unsuccessful candidates.

17.1.A Candidate detained for lack of attendance will be barred from appearing in any one or all course/s for the supplementary examination.

17.2.A candidate permitted to appear for the supplementary examination can improve his internal assessment marks before he takes the supplementary examination by subjecting himself to internal assessment procedure as practiced in the College.

**18. Award of Merit Certificates:**

Merit Certificates will be awarded on the basis of overall CGPA of I to X semester examinations. Further, only those candidates who have completed the program and fulfilled all the requirements in the minimum number of years prescribed (i.e. five years) and who have passed each semester in the first attempt are only eligible for the award of Merit Certificates.

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