

Bachelor of Architecture (B. Arch Degree Programme)

Regulations, Manual, Curriculum (Programme structure) and Syllabus 2019 – 20 Admission Onwards



MAHATMA GANDHI UNIVERSITY

BOARD OF STUDIES FOR B.ARCH (UG AND PG COMBINED)

**REGULATIONS, MANUAL, CURRICULUM (PROGRAMME STRUCTURE and SCHEME) AND SYLLABUS
OF BACHELOR OF ARCHITECTURE (B. Arch)**

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Part A: REGULATIONS

1. Title of the Programme

The Title of the programme is BACHELOR OF ARCHITECTURE(B.ARCH)

2. ADMISSION TO BACHELOR OF ARCHITECTURE(B.ARCH.)

2.1. Academic Eligibility for Admission. No student shall be admitted to the Bachelor of Architecture (B.Arch.) course unless he/she has passed an examination at the end of the 10+2 scheme of examination with at least 50% aggregate marks in Physics, Chemistry and Mathematics and also at least 50% marks in aggregate of the 10+2 level examination or passed 10+3 Diploma Examination with Mathematics as compulsory subject with at least 50% marks in aggregate (vide notification dated 12th February 2019 by Council of Architecture, New Delhi, a statutory authority constituted under the Architects Act 1972 notified in the Gazette of India dated 13th February 2019, which has come in to force with effect from 13th February 2019). Any change as notified by the Council of Architecture from time to time, would be the criteria for the academic eligibility for admission.

2.2. Aptitude Test in Architecture

2.2.1. In addition to clause (1.1.) the candidate needs to qualify an Aptitude Test in Architecture conducted by the COA or by the competent authority of the Central Government or the respective State Government, complying with the Admission Norms prescribed by COA from time to time.

2.2.2. The institutions shall give weightage of 50% marks for aptitude test and 50% marks for the qualifying examination in the matter of admission or as approved by the State Government authority concerned.

2.2.3. No admission shall be made under the Minority Institution/Management/Non-Resident Indian/Person of Indian Origin or any other Quota unless a student has qualified the Aptitude Test in Architecture, as prescribed by the Council of Architecture from time to time.

2.3. Lateral admission

No lateral admission to any stage/semester of the 5-year course in Architecture shall be made.

3. MEDIUM OF INSTRUCTION

Medium of Instruction and Examinations (Written examination, Jury and Viva Voce), unless otherwise specified, shall be English.

4. DURATION OF THE COURSE

The Bachelor of Architecture (B.Arch.) course shall be of a minimum duration of FIVE academic years/TEN semesters of approximately 15 to 18 working weeks each, inclusive of one semester of Practical Training as prescribed in the Program Structure and Scheme and as per the Manual.

- 4.1.** The B.Arch. course shall be completed in a maximum period of 8 (eight) years. However, in special circumstances, a student maybe granted an extension of one year by the university/ institution to complete the course. This extension shall be given only once to the student.

5. ELIGIBILITY FOR THE DEGREE

- 5.1.** Students for the award of Degree of Bachelor of Architecture shall be required to have undergone the Course as a regular student in an institution approved by the Council of Architecture and affiliated to the University. He/She shall successfully complete and pass the prescribed course of studies in not less than 10 semesters as per the Regulations, Program Structure and Scheme and Syllabus.

- 5.2.** The students admitted to 1st year of a 5-year course without passing an Aptitude Test in Architecture and who have been granted B. Arch. Degree or other qualifications shall not be deemed to have attained recognized qualification listed in the schedule of qualifications appended to the Architects Act, 1972. Such students shall not be eligible for registration as an Architect with the Council of Architecture.

6. SUBJECTS OF STUDY

The subjects of study shall be in accordance with the prescribed Program Structure and Scheme and Syllabus i, implemented with effect from 2019 – 20 admissions onwards.

7. COURSE PLAN/ TEACHING PLAN

The Teaching Institution shall publish Course Plans/Teaching Plans for all subjects as per the Program Structure and Scheme except for Professional Training. Such course plans, approved by the Head of the Institution, shall be duly published within two weeks of commencement of the semester. The course plan preparation shall suit the Academic Calendar published by the University every year.

8. ONLINE COURSES

The Program Structure and Scheme permits students to enroll for any ONE online certified course during semester six with the prior approval of the Teaching Institution. Such courses shall be considered equivalent to one elective workshop course in semester six.

9. ACADEMIC EVALUATION: CONTINUOUS ASSESSMENT (CA)

Marks awarded for the Continuous Assessment shall be on the basis of day-to-day work, periodic tests and assignments/projects. The Continuous Assessment for the individual subjects for each semester shall be on the following basis:

9.1. All subjects of the B. Arch Degree Course as per the Program Structure and Scheme and Syllabus are grouped into four groups as stated below:

Group I (a): Subjects having evaluation through CA and having a Final Jury conducted by a team consisting of an Internal Juror and an External Juror. The External Juror shall be from among the core faculty of any other B.Arch. institution or a Practicing Architect, registered with the Council of Architecture.

Group I (b): Subjects having evaluation through CA and having a Final Jury conducted by a team consisting of an Internal Juror and an External Juror. The External Juror shall be from among the core faculty of any other B.Arch. institution under the University.

Group I (c): Subjects having evaluation through CA and having a Final Jury conducted by a team of Internal Jurors.

Group II: Subjects having evaluation through CA and University theory Examination

Group	III:	Architectural	Design	Thesis
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9.2 CA marks shall be awarded as per the following norms for each group and as per the Manual:

Group I (a) and I (b)	Assignments	70%
	Time bound project of max 1-day duration/written exam	20%
	Attendance	10%
Group I (c)	Assignments	80%
	Attendance	20%
Group II	Assignments	30%
	Written Exam	50%
	Attendance	20%
Group III	As per the manual	

The CA marks allotted for attendance for any subject shall be awarded full only if a student has secured 90% attendance in the subject. Proportionate reduction will be made in the case of subject(s) in which he/she gets below 90% of the attendance for the subject(s).

10. **ACADEMIC EVALUATION: FINAL JURY AND VIVA VOCE**

10.1. The Final Jury and Viva Voce of Groups I (a), I (b), I(c) and Group III subjects shall be conducted as per the Manual. The Final Jury of all subjects in these groups (except Group III) shall be conducted by the institution as per the Course plans published. However, the date of the last jury in these subjects shall not be later than 10 days prior to the commencement of the University exams for Group II subjects of the particular semester. The schedules and conduct of the Group III subject shall be as per University notification and referred in the manual.

11. **ACADEMIC EVALUATION: UNIVERSITY EXAMINATIONS**

11.1. There shall be University Examinations for Group II subjects as prescribed in the Program Structure and Scheme and Syllabus for B. Arch Degree course.

11.2. The University examinations for Group II subjects under B. Arch degree course from 2019-20 admissions onwards shall be conducted as per the Question Bank system of the University.

11.3. **Attendance:** Total attendance of a student for a given semester shall be calculated on the basis of total number of working hours of all subjects that the student is present, put together in the respective semester. Subject wise attendance shall be calculated on the basis of total working hours of each subject that the student is present. A student shall be permitted to appear for the University Examination only if he/she satisfies the following requirements:

- 11.3.1.** He/She must secure not less than 75% attendance in the total number of working hours, of all subjects put together, in each semester.
- 11.3.2.** He/She also shall be physically present for a minimum of 50% of the working hours of each subject.
- 11.4.** **Condonation:** It shall be open to the University to grant condonation of shortage of attendance on the recommendation of the Head of Institution, supported with medical certificates and/or other relevant documents as per the following norms:
- 11.4.1.** The total attendance shall not be less than 65% of the total working hours
- 11.4.2.** He/She shall be physically present for a minimum of 40% of the total working hours of each subject.
- 11.4.3.** The shortage of attendance shall not be condoned by the University more than twice during the entire course. However, Semester I and II shall be considered as a single chance for the purpose of condonation .
- 11.4.4.** The condonation shall be granted subject to the rules and procedures prescribed by the University from time to time.
- 11.4.5.** A student who is not eligible for condonation of shortage of attendance shall repeat the semester in the next immediate chance offered.
- 11.5.** University Examinations will be held twice in a year – May/June and November/ December as per the Program Structure and Scheme and Syllabus.
- 11.6.** Chances for Supplementary Examinations for Group II subjects shall be offered by the University every semester.

12. LETTER GRADES

For each subject in a semester, based on the total marks obtained by the student in the University examination and Continuous assessment put together, a letter grade (S, A+, A, B+, B, C+, C, D, E and F) shall be awarded. All letter grades except 'F' shall be awarded if the marks for the University examination is 40 % or above and the total mark (CA marks + University Exam mark) is 50 % or above. No absolute mark will be indicated in the mark list. Letter grade corresponding to total marks (CA marks+ University Exam mark) and the corresponding grade point in a ten-point scale is described below.

% of Total marks (CA marks + University Exam mark)	Letter Grade	Grade Point (G.P)	Remarks
90% and above	S	10	Excellent
Above 85% and less than 90%	A+	9	
Above 80% and less than 85%	A	8.5	
Above 75% and less than 80%	B+	8	
Above 70% and less than 75%	B	7.5	
Above 65% and less than 70%	C+	7	
Above 60% and less than 65%	C	6.5	
Above 55% and less than 60%	D	6	

Above 50% and less than 55%	E	5.5	
Below 50% (CA + U.E) or below 40% for U.E only	F	0	Failed

12.1. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

Semester Grade point average is the semester wise average points obtained by each student in a 10-point scale. SGPA is calculated as per the calculation shown below.

$$SGPA = \frac{\sum (\text{Subject Credit} \times GP \text{ obtained for the subject})}{\text{Total Credits for the Semester}}$$

Cumulative Grade Point Average (CGPA) is the average grade points obtained by the students till the end of the course. CGPA is calculated in a 10-point scale as shown below.

$$CGPA = \frac{\sum (\text{Total credits for the Semester} \times SGPA)}{\text{Total credits for the course}}$$

SGPA and CGPA shall be rounded to two decimal points. The Grade card issued to the students shall contain subject number and subject name, credits for the subject, letter grades obtained, SGPA for the semester and CGPA up to the last semester.

12.2. The CGPA thus obtained can be converted to percentage by multiplying it with 10.

13. MINIMUM CRITERIA FOR APASS

13.1. A student shall be declared to have passed a semester examination in full in the first appearance if he/she secures not less than 5.5 GPA with a minimum of 'E' grade for the all individual subjects in that semester.

13.2. A student shall be declared to have passed in an individual subject of a semester examination if he/she secures grade 'E' or above.

13.3. A student who does not secure a full pass in a semester examination as per clause (13.1) above shall have to pass in all the subjects of the semester examination as per clause (13.2) above before he/she is declared to have passed in that semester examination in full.

14. IMPROVEMENT OF MARKS

14.1. Continuous Assessment (CA) Marks During Course Period

During the course period, a student shall be allowed to repeat the Subject(s) in one or more semesters in order to better the CA marks already obtained, subject to the following conditions:

14.1.1. The student shall not be allowed to improve on CA marks of Group I (a) Subjects.

14.1.2. He/She shall repeat the particular Subject in a particular semester only once and that too at the earliest opportunity available to him/her. He/She shall not combine this course work with his/her regular coursework.

14.1.3. He/She shall not be allowed to repeat the course work of any semester if he/she has already passed that semester examination in full.

14.1.4. The CA marks obtained by the repetition of course work alone will be considered for all purposes, and in cancellation of the previous CA. marks of that particular subject.

14.2. CONTINUOUS ASSESSMENT (CA) MARKS AFTER COURSE PERIOD

14.2.1. A chance for re-doing the continuous assessment shall be provided for all the subjects except Architectural Design (I to VI), Basic Design and Architectural Thesis and Viva voce for those candidates who have completed five years of B.Arch. study but could not be declared pass by University due to low marks in their continuous assessment though they could obtain the minimum requirement of 45 percent marks in the respective University Theory Examinations/Viva voce/Lab as the case may be. All the candidates who have obtained at least 45 percent marks or above in the university theory examination under Group II subjects as well as the subjects under Group I namely Architectural Graphics and Visual Arts but failed in the subject due to the shortfall in the continuous assessment (CA) marks are alone eligible to appear for re-do of their continuous assessment marks in that subject. Further, for the subjects Interior Design, Landscape Architecture, Computer Applications in Architecture I and II (lab), Working Drawings and Details, Documentation of Traditional Building, Workshop Practice and Dissertation for which University Theory examinations are not there, if the student has not acquired a pass even after repeated attempts with the succeeding regular batches, but has acquired minimum 45 percent marks for external Viva voce/Lab, then the chance of re-doing is allowed so that the student gets the B.Arch. degree.

14.2.2. No candidates would be permitted to re-do the continuous assessment marks if either they are declared pass in that particular subject or have already obtained 70 percent marks in continuous assessment process. Candidates who have obtained 70 percent marks in the continuous assessments need to obtain the minimum requirement of 40 percent marks in University theory examination to meet the passing criteria of 50 percentage in total for that subject.

14.2.3. The re-do exercise shall be conducted for the candidates whose regular period of study for B.Arch. degree course has been completed. Only one attempt would be given for the candidate for re-do of the Continuous Assessment (CA) of a particular theory/lab/viva voce subject.

14.2.4. A re-do of continuous assessment would require to satisfy the components mentioned above and would also call for an elaborate arrangement of accommodating them at various centers and for different subjects.

14.2.5. A re-do of continuous assessment shall be conducted by colleges/institutions under the direction of the Controller of Examinations, Mahatma Gandhi University. The examination centers shall be, allocated to all colleges where affiliated B. Arch programs of Mahatma Gandhi University are/were offered. These colleges shall conduct the continuous assessment for re-do of a few subjects of a particular semester or entire subjects of one

complete semester as mentioned in clause 1 based on the feasibility of implementation as decided by Controller of Examination. The internal re-do of different semesters could be with different colleges.

- 14.2.6.** Controller of Examinations shall communicate the overall structure of the program along with the information on semesters/subjects for which re-do is to be conducted through various colleges/institutions. The coordinator of examination at each institution shall be appointed by the university in consultation with the Principals of the colleges concerned.
- 14.2.7.** The fee for the process shall be fixed by the syndicate and a guideline for the same is proposed as follows. Every candidate needs to pay a specified registration fee (Rs.3000/- per subject) to University and the entire expenditure for this exercise need to be met from this amount. Remuneration for examiner, coordinator and principal and institutional cost towards stationery, overheads and related expenditure in connection with the conduct of the exercise need to be included in the registration fee. Students need to register with University for the re-do under reference on payment of prescribed fee. The list of students along with the required university U.Os and documents shall be passed on to respective principals/coordinators of the colleges/institutions.
- 14.2.8.** The co-ordinator shall identify suitable examiners from the existing faculty members in the department/institution for conducting the re-do. The re-do shall consist of two tests and two assignments for all theory subjects. The first test and assignment shall be from the first two modules and second test and assignment shall be from the remaining module(s). The scheme & pattern of the re-do is left to the examiner based on the learning requirement of that particular subject. Out of the total marks allocated for continuous assessment, 70 percent marks shall be for test and 30 percent for assignments for those subjects for which University Theory examinations are there. For the remaining subjects for which re-do is

permissible (as per clause 1) 70 percent shall be allotted for assignments/practical/research work and 30% for written test/viva voce/lab.

14.2.9. The candidates registered for re-do shall complete the stipulated assessment exercises within a minimum of 45 days and maximum of 90 days from the date of registration for re-do at the allotted teaching institution. Any act of misconduct or malpractice, during the re-do examination shall be dealt with relevant rules and regulations of the University.

14.2.10. Examiners shall be given a consolidated remuneration based on the total number of examinations conducted for each paper. No TA/DA will be paid to the examiners as this is conducted at their own institutions.

14.2.11. The final marks in the continuous assessment awarded to candidates for each subject shall be communicated back to the Controller of Examinations, Mahatma Gandhi University by the coordinators.

14.2.12. University shall reckon only the minimum marks required to meet the passing requirement of 50 percent marks out of total marks (CA and external put together) irrespective of the actual marks obtained by the candidate in the re-do exercise. Candidates who avail re-do chance to obtain B.Arch. degree shall be placed in second class only.

14.2.13. Notification for the re-do examination shall be invited along with specific odd/even semester examination notifications issued by the University. Also, the marks after conducting the examination shall reach the university before the completion of the regular valuation camps. The results of the re-do process shall be released only along with the regular release of B.Arch. Examination results of that particular semester.

14.3. University Examination Marks

A student who has secured pass marks for the Group II Subjects shall be allowed to re-appear for a maximum two Subjects of a semester examination for Group II Subjects, in order to improve the grades already obtained, subject to the following conditions:

14.3.1. The student shall be permitted to take the improvement examination only along with next available chance.

14.3.2. The student shall not be allowed to appear for an improvement examination of the subjects of the IX and X semester.

14.3.3. The grades obtained by the students for each subject in the improvement chance appeared for, when compared to the already existing grades- whichever is better will be reckoned as the grade secured.

14.3.4. A student shall be allowed to withdraw from the whole examination of a semester only in accordance with the rules for cancellation of examination of the University.

15. ELIGIBILITY FOR PROMOTION TO HIGHER SEMESTER

15.1. A student who has secured 75% attendance overall for all subjects put together in a particular semester and 50% marks in Architectural Design/Professional Training shall be eligible for promotion to the next higher semester.

- 15.2.** Before being admitted to the VI semester classes, a student should have passed all the subjects in the combined I and II semester examinations in full.
- 15.3.** Similarly, before being admitted to the IX semester classes, a student should have passed the entire subjects up to and including IV semester examinations in full.

16. CLASSIFICATION OF SUCCESSFUL STUDENTS

- 16.1.** A student who qualifies for the degree passing all the subjects of the ten semesters within six academic years (twelve consecutive semesters after the commencement of his/her course of study) and secures not less than 8 CGPA up to and including tenth semester (overall CGPA) shall be declared to have passed the B. Arch degree examination in FIRST CLASS WITH DISTINCTION.
- 16.2.** A student who qualifies for the degree passing all the subjects of the ten semesters within six academic years (twelve consecutive semesters after the commencement of his/her course of study) and secures less than 8 CGPA but not less than 6.5 CGPA up to and including tenth semester shall be declared to have passed the B. Arch degree examination in FIRST CLASS.
- 16.3.** All other successful students shall be declared to have passed the B. Arch Degree examination in SECOND CLASS.
- 16.4.** Successful students who complete the examination in five academic years (Ten consecutive semesters) after the commencement of the course of study shall be ranked on the basis of the CGPA (often semesters). In the case of a tie in the CGPA the total marks of the students who get the same CGPA shall be considered for finalizing the rank. Students who pass the examination in supplementary examination are also covered under this clause.

17. REVISION OF REGULATIONS

The University may from time to time revise, amend or change the Regulations, Manual, Programme Structure and Scheme as well as Syllabus. These changes unless specified otherwise will have effect from the beginning of the academic year following the notification by the University.

Part B:MANUAL

18. MANUAL

The set of Regulations stipulated above is appended by this Manual, the clauses of which are also mandatory.

19. GROUP I (a)SUBJECTS

19.1. Architectural Design I and II to VII and IX

19.1.1. The Evaluation of Architectural Design I and II to VII and IX shall be based on Continuous Assessment (CA) and Final Jury as specified in clause (9.1.). The Final Jury shall consist of the following three stages of evaluation:

1. Final Jury Test.
2. Final Jury portfolio and model evaluation.
3. Final Jury Viva voce.

A Make-up Jury chance shall be provided for students who have appeared for the Final Jury and have not passed the same as per the Manual.

19.1.2. The marks for the Continuous Assessment shall be awarded by the teaching staff in charge as per clause (9.2.).

19.1.3. The CA marks and the Attendance obtained by the students shall be officially published twice – mid-semester and at the end of all semesters. The final CA marks shall be published at least one day before the Final Jury Test.

19.1.4. For the conduct of the Final Jury/Make-up Jury, the head of the teaching Institution shall nominate, an External Juror as well as an Internal Juror (avoiding repetition), and release appointment letters to them under intimation to the University. One External Juror and one Internal Juror shall conduct the Final Jury/Make-up Jury, for a batch of 40 or less students.

19.1.5. The Internal Juror shall be a member from among the core faculty of the teaching institution other than the faculty member who evaluated the work for awarding the internal marks.

19.1.6. The External Juror shall be from among the core faculty of any other B.Arch. teaching institutions or an Architect registered with the Council of Architecture, incorporated under Architect's Act 1972 (in both cases with not less than 5-year experience after the date of COA registration).

19.1.7. The students shall submit their portfolio consisting of the assignments done for the subject during the particular semester with the approval of the Faculty-in-charge of the subject, TWO days before the commencement of the Final Jury Test (not later than 12 noon). The physical models shall be submitted by all students, at least ONE day before the commencement of the Final Jury Portfolio Evaluation and Viva Voce (not later than 12 noon).

- 19.1.8.** The Faculty-in-charge of the subject shall submit a Pre-Jury Report consisting of the details pertaining to the assignments given and its objectives as well as weightage given to each work to the Head of the Teaching Institution, who shall forward the same to the identified Juror Team at least one week before the commencement of the Final Jury/Make-up Jury.
- 19.1.9.** The Internal Juror, based on the Pre- Jury Report and in consultation with the External Juror, shall set a Time Bound Project of six hours duration as the Final Jury Test. This Final Jury Test is a manual exercise and shall be conducted on the previous working day of the Final Jury Portfolio Evaluation and Viva Voce. Opaque sheet(s) of appropriate size shall be supplied for the Final Jury Test by the teaching institution and the students shall work on the same under the supervision of the Internal Juror. The Internal Juror shall keep the submitted materials of the Final Jury Test under safe custody and present the same for evaluation during the Final Jury Portfolio Evaluation and Viva Voce. This stage, the Final Jury Test, is a pre-requisite for entry into the Final Jury portfolio evaluation and vivavoce.
- 19.1.10.** The Internal Juror shall maintain all the materials (including the physical models) to be presented for the Jury by the students and hand over the same to the student based on his/her turn. Each student after the Jury shall retain all the materials in the teaching institution itself.
- 19.1.11.** The overall split up, with a suitable scheme of evaluation, of the Final Jury/Make-up Jury marks shall be as stated below:
- | | | |
|----------------------------------|---|-----|
| • Architectural Design Portfolio | – | 80% |
| • Final Jury Test | – | 10% |
| • Viva Voce | – | 10% |
- 19.1.12.** Students shall be physically present during the Final Jury/Make-up Jury and explain their work done.
- 19.1.13.** The External and Internal Jurors shall have equal weightage in the joint evaluation process.
- 19.1.14.** The Final Jury members shall submit the consolidated marks to the Head of the teaching institution on the last day of Jury.
- 19.1.15.** The Final Jury marks shall be published not later than the next working day.
- 19.1.16.** Any student(s) who appeared for the Final Jury and could not get 50 % aggregate mark (CA marks + Jury) shall be provided a chance to appear for a Make-up Jury. In the Make-up Jury such student(s) shall get an opportunity to present his/her improved portfolio and physical models along with the original ones already presented in the Final Jury and get them reevaluated by another panel of Jurors comprising of a different External Juror and a different Internal Juror. The student(s) concerned shall submit all the materials to be evaluated in the Make-up Jury before 4 pm on the previous working day of the Make-up Jury . However, the student(s) shall not get a chance to improve the Final Jury Test. The maximum mark a student can score during the Make-up Jury shall be just enough to make him/her get a pass for the subject i.e. not more than 50%. The portfolios of the highest and the lowest mark scorers in the Final Jury, except of those who are appearing

for the Make-up Jury, shall be referred by the Make-up Juror Team before the commencement of the Make-up Jury.

- 19.1.17.** Make-up Jury shall be conducted not later than TEN days after the completion of the University Examinations (Written and Jury) in full of the particular semester.
- 19.1.18.** Students who could not get minimum pass marks for the subject even after the Make-up Jury shall repeat the course work for that subject, along with the next batch of students.
- 19.1.19.** The Make-up Jury members shall submit the consolidated marks to the Head of the teaching institution on the last day of Jury.
- 19.1.20.** The Make-up Jury marks shall be published not later than the next working day.

20. GROUP I (b) SUBJECTS

20.1. Building Materials and Technology (I and II to V) and Advanced Building Technology (IX)

- 20.1.1.** The evaluation of Group I (b) subjects shall be based on Continuous Assessment (CA) and Final Jury Evaluation as specified in clause (9.1.).
- 20.1.2.** The marks for the Continuous Assessment will be awarded by the faculty-in-charge as specified in clause (9.2.).
- 20.1.3.** For every batch of 40 or less students, the Head of the teaching institution shall nominate a two-member Jury panel consisting of an Internal Juror from the core faculty (other than the faculty member who evaluated the work for awarding the CA marks) of the teaching institution and an External Juror from the core faculty of any other B.Arch. teaching institution under the University from where Theory Examination Invigilators are appointed by the University for the current semester.
- 20.1.4.** Students shall submit the portfolio consisting of the assignments done for the subject during the course period, with the approval of the faculty-in-charge of the subject on the previous working day of the commencement of the Jury (not later than 3pm).
- 20.1.5.** The faculty-in-charge of the subject shall submit a report consisting of the details of assignments given and its objectives and weightage given to each work to the Head of the Teaching Institution, who in turn will forward it to the Jury Panel.
- 20.1.6.** The Internal Juror based on the syllabus as well as the report and with the approval of the External Juror, shall set a TWO hour Final Jury Test and its evaluation scheme. The Final Jury Test shall comprise of objective type questions on Building Materials part and Technology part. This test shall be conducted by the Internal Juror not later than the previous working day of the Final Jury. The Internal Juror shall evaluate the answer books and present the same to the External Juror, who will scrutinise them on the day of the Final Jury.
- 20.1.7.** The External and Internal Jurors shall have equal weightage in the joint evaluation process.
- 20.1.8.** Students shall be physically present and explain their work to the Jury members at the time of evaluating their work.

- 20.1.9.** The split up of the evaluation shall be as stated below:
- Portfolio – 60%
 - Final Jury Test – 30%
 - Viva Voce – 10% (related to the various projects/work done during the particular semester).
- 20.1.10.** Students who could not get minimum marks for the subject shall repeat the Jury along with the next batch(es) of students with an improved portfolio.
- 20.1.11.** The Jury members shall submit the consolidated marks to the Head of the teaching institution on the last day of Final Jury Evaluation.
- 20.1.12.** The Jury marks shall be published on the next working day.

21. GROUP I (c) SUBJECT

21.1. Professional Skill Enhancement

During semesters I to VII and during semester IX, the students are required to undergo Professional Skill Enhancement Courses (PSE) as prescribed in the Program Structure and Scheme and Syllabus.

- 21.1.1.** The subject is divided into mandatory and optional modules. Students shall be trained through workshops and lab assisted learning in the mandatory modules. Self-initiatives and participation in specific student learning exposures, both within and outside the campus are considered as optional modules.
- 21.1.2.** The evaluation of Group I (c) subjects shall be based on Continuous Assessment (CA) and Final Jury Evaluation as specified in clause(9.1.).
- 21.1.3.** The marks for the Continuous Assessment will be awarded by the faculty-in-charge as specified in clause(9.2.).
- 21.1.4.** For every batch of 40 or less students, the Head of the teaching institution shall nominate a two-member Jury panel from the faculty (other than the faculty member who evaluated the work for awarding the CA marks) of the teaching institution.
- 21.1.5.** Students shall submit the portfolio consisting of the assignments done for the subject during the course period, with the approval of the faculty-in-charge of the subject on the previous working day of the commencement of the Jury (not later than 3pm).
- 21.1.6.** The faculty-in-charge of the subject shall submit a report consisting of the details of assignments given and its objectives and weightage given to each work to the Head of the Teaching Institution, who in turn will forward it to the Jury Panel.
- 21.1.7.** The Jurors will evaluate the portfolio and other relevant materials on the basis of the report.
- 21.1.8.** The Internal Jurors shall have equal weightage in the joint evaluation process.
- 21.1.9.** Students shall be physically present and explain their work to the Jury members at the time of evaluating their work.
- 21.1.10.** The split up of the evaluation shall be as stated below:

- Portfolio/Test – 80%
- VivaVoce – 20% (related to the various projects/work done during the particular semester).

21.1.11. Students who could not score a minimum of 50% for the subject shall repeat the Jury along with the next odd/even batch(es) of students with an improved portfolio as supplementary candidate.

21.1.12. The Jury members shall submit the consolidated marks to the Head of the teaching institution on the last day of Final Jury Evaluation.

21.1.13. The Jury marks shall be published on the next working day.

21.2. Site Planning and Landscape Design (IV), Interior Design and Detailing (V), Working Drawing (VI and VII), Research Methodology (IX), Elective Workshops (III, VI, VII and X)

21.2.1. The evaluation of Group I (c) subjects shall be based on Continuous Assessment (CA) and Final Jury Evaluation as specified in clause (9.1.).

21.2.2. The marks for the Continuous Assessment will be awarded by the faculty-in-charge as specified in clause (9.2.).

21.2.3. Those students who have received certificates for the NPTEL online courses during the sixth semester, under the supervision of the faculty in – charge, shall submit the course completion certificate, marks/grade card and attendance to the Teaching Institution on or before the date notified by the Teaching Institution. The marks/grades thus obtained shall be considered equivalent to that of the CA of one Elective Workshop subject in semester six. Final Jury evaluation as specified in clause (9.1) shall be conducted for those who have undergone the NPTEL online courses.

21.2.4. For every batch of 40 or less students, the Head of the teaching institution shall nominate a two-member Jury panel from the faculty (other than the faculty member who evaluated the work for awarding the CA marks) of the teaching institution.

21.2.5. Students shall submit the portfolio consisting of the assignments done for the subject during the course period, with the approval of the faculty-in-charge of the subject on the previous working day of the commencement of the Jury (not later than 3pm).

21.2.6. The faculty-in-charge of the subject shall submit a report consisting of the details of assignments given and its objectives and weightage given to each work to the Head of the Teaching Institution, who in turn will forward it to the Jury Panel.

21.2.7. The Jurors will evaluate the portfolio and other relevant materials on the basis of the report.

21.2.8. The Internal Jurors shall have equal weightage in the joint evaluation process.

21.2.9. Students shall be physically present and explain their work to the Jury members at the time of evaluating their work.

- 21.2.10.** The split up of the evaluation shall be as stated below:
- Portfolio/Test – 80%
 - VivaVoce – 20% (related to the various projects/work done during the particular semester).
- 21.2.11.** Students who could not score a minimum of 50% for the subject shall repeat the Jury along with the next batch(es) of students with an improved portfolio.
- 21.2.12.** The Jury members shall submit the consolidated marks to the Head of the teaching institution on the last day of Final Jury Evaluation.
- 21.2.13.** The Jury marks shall be published on the next working day.
- 21.3. Professional Training**
- 21.3.1.** As per the B. Arch Program Structure and Scheme students shall undergo one-semester practical training immediately after the completion of the VII semester B.Arch. examinations
- 21.3.2.** The training shall be under a registered architect and approved by the Head of the Teaching Institution. The student shall select a registered architect with good experience and reputation in the field of Architectural practice for practical training and the same should be approved by the head of the Teaching Institution in advance before the commencement of the VII semester university examination. The Architect should have valid registration with the council of Architecture and have a minimum of FIVE years' experience in the practicing field. He/She should not be an architect employed in the Public sector or a regular faculty member of the Teaching Institution or immediate relative of any regular faculty member of the Teaching Institution. The Architect shall not be a relative of the trainee also. Further the training firm shall in no way be associated with the Teaching Institution.
- 21.3.3.** Students may also select internationally recognized Architects practicing outside India, with the approval of the teaching Institution.
- 21.3.4.** Type of works to be carried out during training period:
- 21.3.5.** The students are expected to get exposure in the following aspects:
- i. Involvement in the Design process
 - ii. Site visit and Site Supervision.
 - iii. Preparation of drawings for getting building permissions, working drawings, service drawings, etc.
 - iv. Preparation of estimates, specifications, contract documents, and tender documents.
 - v. Discussion with clients and other consultants.
- 21.3.6.** Monthly work report: The students are required to send copies of the monthly report of the work done to the faculty-in-charge of Practical Training of the Teaching Institution at

the end of each month. The report shall be duly signed by the Architect or an authorized officer supervising the work in the format prescribed by the teaching institution.

- 21.3.7.** The evaluation of Group I (c) subjects shall be based on Continuous Assessment (CA) and Final Jury Evaluation as specified in clause(9.1).
- 21.3.8.** The marks for the Continuous Assessment will be awarded by the faculty-in-charge as specified in clause (9.2.). The assignments shall include Work Dairy, Monthly Work Report, Critical Appraisal andPortfolio.
- 21.3.9.** The Final Jury evaluation of the Professional Practice shall be conducted at the end of VIII semester.
- 21.3.10.** At the end of the Practical training period, the students shall submit to the Teaching Institution a portfolio as specified by the institution. This shall consist of the complete report of their work done during the entire training period illustrated with sketches, prints and other documents related to the projects on which he/she has involved both in office and at site, a work diary, original of monthly report, a certificate regarding their conduct and performance of work done during the training period and regarding the successful completion of training under the approved Architect /Firm. In the absence of the above documents students shall not be permitted to appear for the UniversityExamination.
- 21.3.11.** The split up of the evaluation shall be as statedbelow:
- Portfolio, Work Diary,CriticalAppraisal – 80%
 - VivaVoce – 20% (related to the various projects/work done during the particularsemester).
- 21.3.12.** For every batch of 40 or less students, the Head of the teaching institution shall nominate a two-member Jury panel from the faculty (other than the faculty member who evaluated the work for awarding the CA marks) of the teachinginstitution.
- 21.3.13.** The Jurors will evaluate the portfolio and other relevant materials to check the qualitative achievement of the student during the practical trainingperiod.
- 21.3.14.** The Internal Jurors shall have equal weightage in the joint evaluationprocess.
- 21.3.15.** Students shall be physically present and explain their work to the Jury members at the time of evaluating theirwork.
- 21.3.16.** Students who could not score a minimum of 50% for the subject shall repeat the Professional training and appear for the Jury along with the next batch(es) of students with an improvedportfolio.
- 21.3.17.** The Jury members shall submit the consolidated marks to the Head of the teaching institution on the last day of Final JuryEvaluation.
- 21.3.18.** The Jury marks shall be published on the next workingday.

22. GROUP IISUBJECTS

Subjects having evaluation through CA and University theory Examination

23. GROUP III SUBJECT

23.1. Architectural Design Thesis

Students of the B.Arch. Degree course are required to prepare an Architectural Design Thesis during the X semester of the B.Arch. Degree programme.

- 23.1.1.** The Head of the Teaching Institution shall allot a guide for each student considering the nature of the work and specialization of the faculty member at the beginning of IX semester. As far as possible student's preference may also be considered before allotting the guide.
- 23.1.2.** Students admitted to the IX semester should submit the choices of their thesis project within a month after the commencement of the IX semester classes in consultation with the guide.
- 23.1.3.** Students shall obtain approval for the project of Architectural Design Thesis from Teaching Institution.
- 23.1.4.** The duration of the Architectural Design Thesis will be six months from the date of commencement of the X Semester B. Arch Degree Course.
- 23.1.5.** The project selected may be either a live architectural project or hypothetical one so that the student gets training in tackling projects similar to what he/she is likely to face in his/her professional career. The project, of around 10000 sq. m built up area, and its Program shall be worked out by the student himself/herself under the directions of the guide.
- 23.1.6.** The work should include an intensive study of the topography, climate and problems concerned with design of spaces and structures. The solution of the problem must be with the integrated approach of the Architect, Engineer, Urban Designer, Planner and Landscape Architect and this shall be reflected in the preparation of drawings and the report.
- 23.1.7.** Students are required to maintain a work diary of the thesis work.
- 23.1.8.** All students are required to schedule their thesis work, get it approved by the guide, at the beginning of the X semester and submit a copy of the same to the thesis coordinator nominated by the Head of the Teaching Institution.
- 23.1.9.** Special Topic: Any Architectural Design related special topic, approved by the Teaching Institution recommended by the respective guide, appropriate for the Thesis project shall be selected by the students.
- 23.1.10.** Internal evaluation of each student will be done by a three-member Jury constituted by the Teaching Institution. One member of the Jury will be the guide. The other Jury members are to be constituted by the Head of the Teaching Institution from the faculty of Architecture of the Teaching Institution or any other Teaching Institution or from among the Architects, registered with the Council of Architecture and incorporated under the architect's act 1972, with not less than 10-year experience.
- 23.1.11.** The progress shall be assessed by the Jury periodically through a minimum of three stages of reviews, the dates of which will be published by the Teaching Institution before the

commencement of the X semester. Each review shall be graphical (including models) and oral presentation.

- 23.1.12.** Students have to obtain a total of 40% marks combining all the stages of reviews to become eligible for the external Jury. Those who do not become eligible to appear for the External Jury shall have to repeat the subject fully with the next batch(es) of students.
- 23.1.13.** Total 300 marks to be awarded for internal assessment will be allotted through the internal reviews, the suggestive split up of works to be done may be as given below:
 - 23.1.13.1.** Review 1 - Introduction of the Thesis Topic, Feasibility studies, Basic data, and Case studies/Primary surveys, Analysis, Arriving at Inferences. Design Program. Site analysis and Conceptual development.
 - 23.1.13.2.** Review 2 - Review of Previous stage, detailing of the conceptual stage leading to design decisions, the process to arrive at Sketch design. Layout, blocking etc. graphical presentations of Floor Plans, Sections, Views, Block Models etc. Conformity to Relevant Standards, Bye laws etc. and Achievement of Basic Objectives of Architectural Design. Introduction of the Special Topic.
 - 23.1.13.3.** Review 3 - Review of Previous stages, Finalization of the Design. Layout, Final Design for various buildings graphical presentation of Plans, Sections, Elevations, Views etc. Details of Building and Site Services, Site Planning and Landscape schemes. Preparation of relevant Detailed Drawings. Application of Special Topic in the design. Review of Report.
 - 23.1.13.4.** In case the Teaching Institution conducts more than three Reviews as stated above, proportionate changes shall be done in the contents of various Reviews and split up of marks. The same shall be published in the Course Plan as per clause(6).
- 23.1.14.** The following Documents shall be submitted for the External evaluation Final Jury:
 - 23.1.14.1.** Two copies of the Data Collection in the preliminary design stage (up to the design and including the case studies) shall be compiled and presented along with the final submission in A3 size format.
 - 23.1.14.2.** Two copies of the Final Report A4 size format shall be submitted on the date and time announced by the Teaching Institution.
 - 23.1.14.3.** The total sheets submitted shall not exceed 30 (thirty) A1 size sheets. These shall be submitted as per the schedules published by the University.
 - 23.1.14.4.** Physical Models shall be submitted on the date of Viva Voce examination, at least by 8am.
 - 23.1.14.5.** The format and other instructions regarding the schedule of reviews, preparation of the bound volumes of Data Collection, Final Report, Final Sheets, Model, etc. will be announced by the Teaching Institution.
- 23.1.15.** For the conduct of External evaluation, the University shall appoint a Chairman from among the Heads/Senior most Professors in Architecture of the Teaching Institutions, on a rotation basis. The Chairman shall prepare a provisional list of External Jurors, having a minimum of 10 years practical/teaching experience after registration with COA, for the conduct of External Jury, and submit to the University for ratification and release of appointment.

letters. The External Jury consisting Chairman, two External Jurors and one Internal Juror appointed by the University shall conduct the Thesis and Viva Voce Examination, as per the University declared Schedule. The Chairman shall visit the venues of External evaluation in all the centers and carry out a random verification of the evaluation being carried out by the other Jurymembers.

23.1.16. The Jury members (excluding the chairman) shall submit the consolidated marks to the Chairman on the last day of Viva Voce and the Chairman should submit the mark sheet directly to the University.

23.1.17. Students shall secure 40% of marks in the external Jury and 50% aggregate (Internal + External) for successfully completing the thesis and Viva voce. Supplementary chances will be given to the students who fail in the final Jury.

Part C: CURRICULUM (Program Structure and Scheme)

24. SUBJECTCODE

- Every subject code has 9 characters:PPARQQRSS
- Eachcodestartswiththelast2digits(PP)oftheyearofsyllabusformulation.
- The fifth and sixth characters (QQ) denote the semester number (12 for semesters 1 and 2 and for all the other semesters it varies from 03 to10)
- The seventh character (R) denotes the number of times the subject content has gone through minor revisions (a scope of 9 revisions is assumed before the entire syllabus get revisedagain).
- Last two characters (SS) denote the subjectnumber.

Program Structure (Semester Wise)

25. DEFINITION OFCREDIT

1 Hr. Teaching (T) per week	1 Credit
1 Hr. Studio (S) per week	1 Credit
1 Hr. Workshop/Lab (W/L) per week	0.5 Credits

26. FIRST AND SECOND SEMESTERCOURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks			
			T	S	W/L		CA	University Exam		Total
								Jury	Written	
I (a)	19AR12001	Architectural Design 1 & 2		10		10	250	250		500
I (b)	19AR12002	Building Materials and Technology 1 & 2	1	3		4	100	100		200
I (c)	19AR12003	Professional Skill Enhancement 1 & 2			4	2	50	50		100
II	19AR12004	History of Architecture 1 & 2	2			2	50		100	150
II	19AR12005	Theory of Structures 1 & 2	2			2	50		100	150
II	19AR12006	Theory of Design	2			2	50		100	150
II	19AR12007	Architectural Graphics		3		3	100		100	200
II	19AR12008	Mathematics for Design	2			2	50		100	150
Total Hours		29	9	16	4	27	700	400	500	1600

27. THIRD SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks		
							CA	University Exam	
			T	S	W/L			Jury	Written
I (a)	19AR03001	Architectural Design 3		10		10	250	250	
I (b)	19AR03002	Building Materials and Technology 3	1	3		4	100	100	
I (c)	19AR03003	Professional Skill Enhancement 3			4	2	50	50	
II	19AR03004	History of Architecture 3	2			2	50		100
II	19AR03005	Theory of Structures 3	2			2	50		100
II	19AR03006	Climatology	2			2	50		100
II	19AR03007	Humanities	2			2	50		100
I (c)	19AR03008	Elective Workshop I	1		2	2	50	50	
Total Hours		29	10	13	6	26	650	450	400

28. FOURTH SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks		
							CA	University Exam	
			T	S	W/L			Jury	Written
I (a)	19AR04001	Architectural Design 4		10		10	250	250	
I (b)	19AR04002	Building Materials and Technology 4	1	3		4	100	100	
I (c)	19AR04003	Professional Skill Enhancement 4			4	2	50	50	
II	19AR04004	History of Architecture 4	2			2	50		100
II	19AR04005	Theory of Structures 4	2			2	50		100
II	19AR04006	Building Services 1	2			2	50		100
I (c)	19AR04007	Site Planning & Landscape Design	1	2		3	75	75	
II	19AR04008	Elective Theory I	2			2	50		100
Total Hours		29	10	15	4	27	675	475	400

29. FIFTH SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks		
							CA	University Exam	
			T	S	W/L			Jury	Written
I (a)	19AR05001	Architectural Design 5		10		10	250	250	
I (b)	19AR05002	Building Materials and Technology 5	1	3		4	100	100	
I (c)	19AR05003	Professional Skill Enhancement 5			4	2	50	50	
II	19AR05004	Human Settlement Planning	2			2	50		100
II	19AR05005	Theory of Structures 5	2			2	50		100
II	19AR05006	Building Services 2	2			2	50		100
I (c)	19AR05007	Interior Design & Detailing	1	2		3	75	75	
II	19AR05008	Elective Theory 2	2			2	50		100
Total Hours		29	10	15	4	27	675	475	400

30. SIXTH SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks		
							CA	University Exam	
			T	S	W/L			Jury	Written
I (a)	19AR06001	Architectural Design 6		10		10	250	250	
I (c)	19AR06002	Working Drawings 1		4		4	100	100	
I (c)	19AR06003	Professional Skill Enhancement 6			4	2	50	50	
II	19AR06004	Housing	2			2	50		100
II	19AR06005	Specification and Cost Estimation	2			2	50		100
II	19AR06006	Building Services 3	2			2	50		100
I (c)	19AR06007	Elective Workshop 2	1		2	2	50	50	
II	19AR06008	Elective Theory 3	2			2	50		100
Total Hours			9	14	6	26	650	450	400

31. SEVENTH SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks		
							CA	University Exam	
			T	S	W/L			Jury	Written
I (a)	19AR07001	Architectural Design 7		10		10	250	250	
I (c)	19AR07002	Working Drawings 2		4		4	100	100	
I (c)	19AR07003	Professional Skill Enhancement 7			4	2	50	50	
II	19AR07004	Urban Design	2			2	50		100
II	19AR07005	Project Management	2			2	50		100
II	19AR07006	Environmental Science for Architecture	2			2	50		100
II	19AR07007	Professional Ethics & Practice	2			2	50		100
I (c)	19AR07008	Elective Workshop 3	1		2	2	50	50	
Total Hours			9	14	6	26	650	450	400

32. EIGHTH SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks		
							CA	University Exam	
			T	S	W/L			Jury	Written
I (c)	19AR08001	Professional Training			30	15	250	500	
Total Hours					30	15	250	500	0

33. NINTH SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks			
			T	S	W/L		CA	University Exam		Total
								Jury	Written	
I (a)	19AR09001	Architectural Design 8		10		10	250	250		500
I (b)	19AR09002	Advanced Building Technology	2	3		5	125	125		250
I (c)	19AR09003	Professional Skill Enhancement 8			4	2	50	50		100
II	19AR09004	Green Built Environment	2			2	50		100	150
II	19AR09005	Disaster Management & Mitgation	2			2	50		100	150
I (c)	19AR09006	Research Methodology	2			2	50	50		100
II	19AR09007	Elective Theory 4	2			2	50		100	150
II	19AR09008	Elective Theory 5	2			2	50		100	150
Total Hours		29	12	13	4	27	675	475	400	1550

34. TENTH SEMESTER COURSES

Subject Group	Course Code	Subject	Hours/week			Credits	Marks			
			T	S	W/L		CA	University Exam		Total
								Jury	Written	
III	19AR10001	Architectural Design Thesis		26		26	650	650		1300
I (c)	19AR10002	Elective Workshop 4	1		2	2	50	50		100
Total Hours		29	1	26	2	28	700	700	0	1400

Total Credits: 229

Note:

- All University Examinations (Written) shall be Three hours duration with maximum marks of 100.
- All required University Examinations (Jury/Written) shall be conducted during all semesters, irrespective of odd or even ones.