SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(An Autonomous Institution)

Puducherry

Regulations R-2023

for

B.Arch. Degree Programme

(With effect from academic year 2023-24)

VISION OF INSTITUTE

To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

MISSION OF INSTITUTE

M1: Quality Education: To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

M2: Research and Innovation: To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

M3: Employability and Entrepreneurship: To inculcate the employability and entrepreneurial skills through value and skill based training.

M4: Ethical Values: To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

VISION OF SCHOOL OF ARCHITECTURE

To develop a vibrant knowledge - oriented environment and a centre of excellence in the field of architecture towards creating a sustainable humane habitat.

MISSION OF SCHOOL OF ARCHITECTURE

M1: To inculcate the culture of value – based education.

M2: To develop an ambient environment for research and sharing of knowledge.

M3: To enable learning towards excellence with professional disposition.

M4: To encourage creative innovation in the field of architecture.

M5: To sensitize role and design for sustainable humane habitat.

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SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE
(An Autonomous Institution)
SCHOOL OF ARCHITECTURE
(Ten Semesters)

REGULATIONS 2023 (R-2023)
CHOICE BASED CREDIT SYSTEMS (CBCS)

1. INTRODUCTION

1.1 Sri Manakula Vinayagar Engineering College (SMVEC) envisions to foster knowledge, skills, attitude and values of the aspiring youths to enable them to become global citizens. To obtain this transformation, the institution has evolved a flexible academic curriculum designed in accordance with the Outcome Based Education (OBE) which is acquired by the learners of a programme under 'Learner Centric' Model.

1.2 School of Architecture shall be governed by the rules and regulations provided in this version of Academic Regulations (R-2023). The curriculum of each programme provides broad based knowledge, quality course content, academic flexibility, and scope for multi-disciplinary learning activities and opportunities for industry oriented projects.

1.3 The provisions made in this document shall govern the policies, procedures, curriculum, conduct of the examinations and evaluation systems.

1.4 The semester system shall be adopted for academic activities in the college. Normally, odd semester starts in second week of June and even semester starts in second week of December.

1.5 Stringent evaluation norms will be followed to maintain quality of engineering education. The examination system will be transparent and governed by the rules and regulations with time bounded activities.

Objectives of CBCS

❖ To shift focus from the teacher-centric to student-centric education.

❖ To allow students to choose inter-disciplinary, intra-disciplinary and skill oriented courses from the choices to provide more flexibility in learning system.

❖ To make education broad-based on par with global standards.

❖ To help the students to earn credits by choosing unique combination of courses.

❖ To create worldwide exposure to students by providing International Certificate Courses.

❖ To provide necessary training to students for gaining vital life skills through skill development programmes.

❖ To keep abreast of industrial requirements and societal needs, students are equipped through internship and inculcate the skill of converting Project into Product.

1.6 The rules and regulations shall be subjected to amendment made by the Academic

Council (AC) from time to time.

2. PRELIMINARY DEFINITIONS AND NOMENCLATURE

College	:	Sri Manakula Vinayagar Engineering College
University	:	Pondicherry University
Programme	:	B.Arch. Degree
Discipline/ Department	:	Branch or specialization of B.Arch Degree Programme.
Course	:	Theory/ Theory cum Studio / Studio courses that is normally studied in a semester. Eg: Introduction to Architecture, Foundational Design Studio, etc.,
Professional Core Course	:	Compulsory course in the curriculum
Professional Elective Course	:	A course that can be chosen from the listed courses by a student based on his/her interest which is not covered in professional core courses.
Head of the Institution	:	The Director cum Principal
Head of SOA / SMVEC	:	The Principal
Controller of Examinations (CoE)	:	The authority who is responsible for all Examination related activities of the institution
L – T – P/S – C	:	**L** - **L**ecture, **T** - **T**utorial, **P/S**- **P**ractical / Studio and **C** - **C**redits respectively
Curriculum	:	The various components / courses studied in each programme that provides an appropriate outcome in the chosen branch of study.
Semester Grade Point Average (SGPA)	:	Weightage of average grade points of courses in a semester.
Cumulative Grade Point Average (CGPA)	:	Weightage of average grade points of all courses in all semesters completed by a student
Odd semester	:	The Semester that is typically from June to November
Even semester	:	The Semester that is typically from December to May
Period	:	50 minutes duration of a Theory / Theory cum Studio / Studio class
Day	:	8 periods in a calendar day
Enrolment	:	Enlistment of a student on roll in an academic year
Arrear	:	A course in which a student has not fulfilled the examination passing criteria in the end semester examination.
CAT	:	Continuous Assessment Test
CAM	:	Continuous Assessment Marks
ESE	:	End Semester Examination
ESM	:	End Semester Examination Marks
PAEC	:	Professional Ability Enhancement Course
Regular Examination	:	End semester examination conducted for the courses prescribed in the curriculum of that semester.
Arrear Examination	:	End Semester examination conducted for the students who have not fulfilled the examination passing criteria in the previous attempt(s).

Supplementary Examination	:	An additional examination exclusively conducted in the fifth and eighth semester for the students with a maximum of two arrears overall.
First Attempt	:	Appearing for the end semester examination of a course in a semester for which the students have registered. If a student failed to appear for the end semester examination after registration, it is also treated as first attempt.
Academic Council (AC)	:	An Apex academic body having the power to scrutinize and approve the proposals with or without modification of the Board of Studies with regard to programme of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, and procedures relevant thereto, etc.,
Board of Studies (BoS)	:	An Apex academic body having the powers to approve the various courses, suggest teaching methodologies, coordinate research and other academic activities keeping in view the objectives of the college.
Academic Standing Committee (ASC)	:	ASC shall perform the functions under emergency situations which are subject to ratification by the Academic Council (AC).
Academic Appeal Board (AAB)	:	If a student finds some anomaly in the award of marks in the Continuous Assessment Test /End Semester examination, he/she can make an appeal to the *Academic Appeal Board* for review of marks awarded.
Department Advisory Committee (DAC)	:	The Committee that formulates a process to review the post implementation effects of curriculum and suggest various measures to ensure academic standard and its excellency of the course offered by the department.
Department Consultative Committee (DCC)	:	Reviews, revises and prepares curriculum structure based on the institutional policy and suggests improvements in syllabus of a course(s) prepared by course teacher(s) and forwards the curriculum to BoS for further recommendations. It monitors the academic progress and conduct of classes throughout the semester and takes appropriate corrective measures to improve the quality of curriculum delivery.
Programme Academic Coordinator (PAC)	:	Coordinates all the academic activities of the department viz. Curriculum revision, framing of syllabus, time table, re-registration of course(s), display and submission of attendance status and BoS meeting as a member secretary.
AICTE	:	All India Council for Technical Education
UGC	:	University Grants Commission
NBA	:	National Board of Accreditation
NAAC	:	National Assessment and Accreditation Council
CRC	:	Complaint Redressal Committee

3. PROGRAMME EDUCATIONAL OBJECTIVE

Bachelor of Architecture curriculum is designed to prepare the graduates having attitude and knowledge.
 i. To enable a successful professional and technical career.
 ii. To enable a strong foundation in Humanities and Sciences, Engineering
    Sciences and Architectural Design Skills.

iii. To impart knowledge of the theories and practices in the field of Architecture.
iv. Engage in life-long learning to keep themselves abreast of new developments.
v. To put into practice and inspire high ethical values and technical standards.

4. PROGRAMME OUTCOME

a. Ability to gain knowledge of Humanities, Sciences and Architecture.
b. Ability to understand elements of Architecture and apply basic principles in Architectural Design.
c. Ability to identify social, economic and cultural issues in Architectural Design.
d. Ability to analyze and apply theoretical knowledge to achieve Architectural Design solutions.
e. Ability to understand ethical and professional responsibilities.
f. Ability to review, comprehend and report technological developments.
g. Ability to understand real life situation of Architectural Practice.
h. Ability to communicate effectively and work in interdisciplinary groups.

5. ADMISSION ELIGIBILITY

5.1 All candidates need to satisfy the Norms by Council of Architecture – New Delhi, in order to get admitted in B.Arch Course.
5.2 Admission Eligibility will be revised time to time by Council of Architecture, For updates (www.coa.gov.in / www.nata.in)

6. STRUCTURE OF THE B.ARCH PROGRAMME

6.1 The complete Programme of study will consist of 6 categories of courses distributed over 10 semesters with two semesters per year as listed below:

1. *BS- BASICSCIENCES*
2. *HS - HUMANITIES and SOCIAL SCIENCES*
3. *ES- ENGINEERING SCIENCES*
4. *PC- PROFESSIONNALCORE*
5. *PE- PROFESSIONALELECTIVE*
6. *PAEC- PROFESSIONAL ABILITY ENHANCEMENT COURSES*

6.2 The B. Arch Programme will have a curriculum and course contents (syllabus) proposed by the Boards of Studies in Architecture and approved by the Academic Council.
1. Theory Courses such as Mathematics, Mechanics of Structure, Human Settlement, History of Architecture etc.
2. Theory cum Studio Courses such as Services on Water Supply and Waste Management, Site Surveying and Planning etc.
3. Design and Construction based Studio Courses comprising of Fundamental Arts Studio, Building Elements and Finishes, Architectural Model Making, Foundational Space Design Studio, Campus Design Studio.
4. Elective Courses for Specialization in related fields.
5. A Practical Training in the VIII Semester for exposure in the Architectural Profession.
6. Architectural Thesis in the X Semester.
7. Compulsory Educational Tour and Study / field / site visits.
8. NCC/NSS/NSO/YRC activities for character development.

6.2.1 Professional Training

Students have to undergo practical training for duration of one semester with minimum of 90 working days, during the VIII semester of the course in an approved Architectural firm under an Architect Registered with Council of Architecture India with a minimum of 5 years Professional Standing with the approval of Principal of the Institution. The training can also be undertaken in registered government organization such as CMDA, PWD and INTACH etc. The portfolio of the drawings done during the training period will be assessed at the end of the semester by internal faculty member. Moreover, it has to be certified by the concerned Architect/organization for the successful completion of the professional training. The students should arrange to send monthly progress reports from the respective offices imparting training

and completion certificate after the Training.

Internship Coordinator will be arranged to coordinate with respective offices for collecting weekly attendance of the students and submit to the institution.

Architectural Practical Training in Foreign Country shall be done under the registered Architect of that Country and to be approved and monitored by the Head of the Institution.

The college will provide 50% mark as internal whereas the external examiner will provide 50% mark in the Viva Voce at the end of Semester.

6.2.2 Educational Tour

Every student is required to undertake an educational tour approved by the department to various places in India.

South India Tour will be on Fourth Semester.
North India Tour will be on Seventh Semester.

The Educational tour should be evaluated internally based on an assignment submitted individually.

6.2.3 Site / Field Visit

Every student is required to undergo site or field visits each semester.
1. **Theory Courses** – To gain latest updates in building material and techniques in the Industry. (e.g. To learn the Manufacturing process of glass, students should undergo field visit to manufacturing industries)
2. **Theory cum Studio** - To get knowledge in latest building materials and Techniques used. (e.g. To understand the building services students are encouraged to visit ongoing project which has a various service components,(i.e.HVAC, PLUMBING,ELECTRICAL Etc.)
3. **Studio Courses** – To understand the basics of design students should undergo a site visit to renowned Architect designed Projects, starting from the first semester of the Programme.

6.2.4 Value Added Course/ Skill Development Course / Industry Relevant Course / Online Course

Table 6.2.4.1 Skill development mandatory Courses in our syllabus.

S.No	Course Code	Course Name	Credits
01	U23TS0102	Communication English (Sem -1)	3
02	U23TS0103	Fundamental Arts Studio (Sem -1)	3
03	U23ST0422	Computer Aided Design (Sem -4)	3
04	U23ST0210	Architectural Model Making (Sem -2)	3
05	U23EL0607	Technological Fabrication in Architecture	3
06	U23ST0105	Fundamental Design Studio	3
07	U23EL0920	Architectural Photography and Journalism	3
08	U23ST0209	Perspective and Measure Drawing	3
09	U23EL0714	Architectural Conservation	3

Training in the following Optional Certification Courses on Latest Software Tools that are useful and industry relevant for the Architecture Professionals to bridge the gap between Academia and Industry.
Photoshop, 3D Studio Max, Auto CAD, REVIT, Sketch Up, Lumion, V-Ray, Grasshopper, Illustrator, Rhino 3D,**COOHOM (Interior Design Software),Enscape (3D Rendering).**

6.3 Credits Assigned

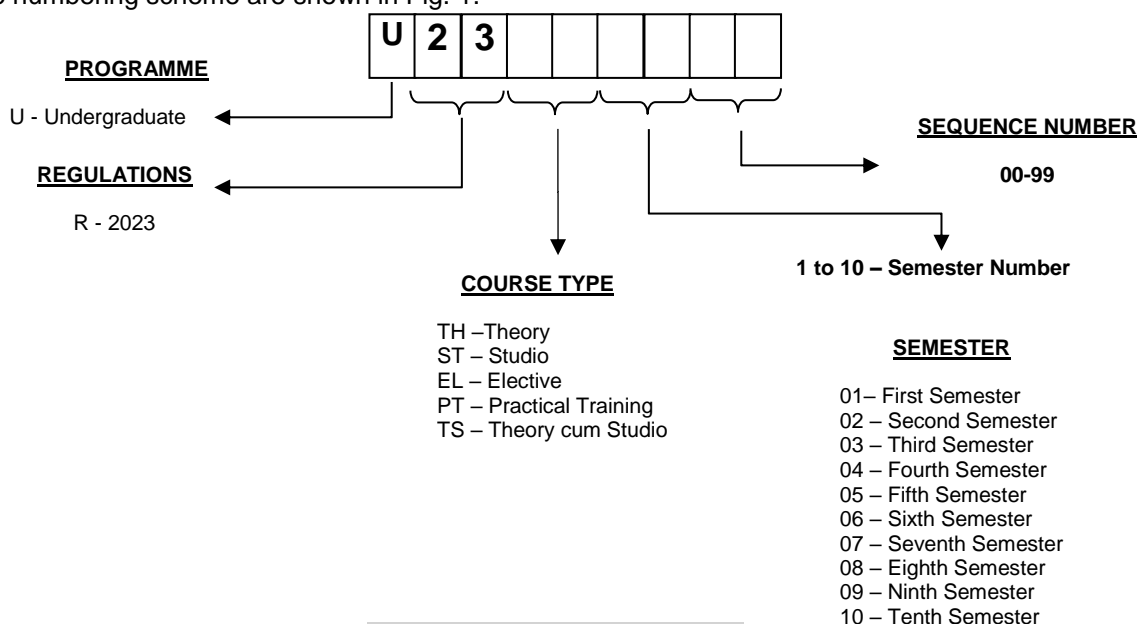**Table 6.3.1 Credits are assigned to the courses based on the following general**

SI.NO	Subject Area	Credit per Semester										Credits Total
		I	II	III	IV	V	VI	VII	VIII	IX	X	
1	HS	6	3	3		3	3	3		6		**27**
2	BS	3		3	3							**9**
3	ES	3	6	3	6	6		3				**27**
4	PC	12	15	15	12	13	13	14		17	3	**114**
5	PE					3	6	6		3		**18**
6	PAEC				3		3		26		23	**55**
	TOTAL	24	24	24	24	25	25	26	16	26	26	**250**
Non-Credit / mandatory		NCC / NSS /YSR Rotaract		Rural Study Tour		All India Tour						

6.4 The curriculum of any branch of the B. Arch Programme is designed to have 250 credits for the award of the B. Arch degree.

6.5 The medium of instruction, examination and project reports will be in English.

7. CLASSIFICATION AND NUMBERING OF COURSES

Each course is denoted by a unique code consisting of 9 alphanumeric characters. The details of the numbering scheme are shown in Fig. 1.

PROGRAMME

U - Undergraduate

REGULATIONS

R - 2023

SEQUENCE NUMBER

00-99

COURSE TYPE

TH –Theory
ST – Studio
EL – Elective
PT – Practical Training
TS – Theory cum Studio

1 to 10 – Semester Number

SEMESTER

01– First Semester
02 – Second Semester
03 – Third Semester
04 – Fourth Semester
05 – Fifth Semester
06 – Sixth Semester
07 – Seventh Semester
08 – Eighth Semester
09 – Ninth Semester
10 – Tenth Semester

Fig. 1. Course code formation

8. CATEGORY OF COURSES

Core Courses:

There will be a Professional Core Course in every semester. This is the course which should compulsorily be studied by a candidate as a core requirement to complete the requirement

of a degree in a said discipline of study.

Elective Courses:
Elective course is a course which can be chosen from a pool of papers. It may be:
- Supportive to the discipline of study
- Providing an extended scope
- Enabling an exposure to some other discipline/domain,
- Nurturing candidate's proficiency/skill.

An elective may be "Discipline centric" called "Professional Elective."

9. DISCONTINUATION OF COURSE

If a candidate wishes to temporarily discontinue the course for valid reasons, he/she shall apply through the Head of the Institution in advance and obtain a written order from the College permitting discontinuance. A candidate after temporary discontinuance may rejoin the course only at the commencement of the semester at which he / she discontinued, provided he/she pays the prescribed fees to the Institution. However it may be noted the fees/Charges once paid shall not be refundable. The total period of completion of the course reckoned from the commencement of the first semester to which the candidate was admitted shall not in any case exceed 8 years, excluding the period of discontinuance.

10. PROVISION OF WITHDRAWAL

A Candidate may, for valid reason, and on the recommendation of the Head of Institution to withdraw from the writing the entire semester examination as one unit. The Withdrawal application is valid only if applied before 15 days to the commencement of End Semester examination. Withdrawal shall be permitted only once during the entire course. Other condition being satisfactory, candidates who withdraw are also eligible to be awarded DISTINCTION whereas they are not eligible to be awarded a rank.

In case of any emergency situation for withdrawing from the end semester examination without Prior Intimation, final decision can be taken by Principal and Controller of Examination.

11. MINIMUM AND MAXIMUM DURATION OF THE PROGRAMME

11.1 Each semester shall normally consist of 90 working days or 450 hours. A student is ordinarily expected to complete the B.Arch. programme in ten semesters for regular programme. However, a student may complete the programme at a slower pace by taking more time but in any case, not more than 16 semesters under regular programme excluding semester withdrawn on medical grounds.

11.2 In compliance with the rules and norms of COA, no student will be allowed to complete the B.Arch. degree in less than 10 full-semesters.

12. DISCIPLINE

12.1 Every student is required to maintain discipline and decorous behavior both inside and outside the College campus and not to indulge in any activity that will tend to bring down the prestige of the Organization.

12.2 Any act of indiscipline of a student is first to be considered by the Discipline and Welfare Committee of the Department/School for necessary action. If the issue demands more serious consideration, the act of indiscipline will be reported to the Head of the Institution, The Committee will enquire into the charges and recommend suitable action if the charges are substantiated. The Head of the Institution will take appropriate action on the recommendation of the Discipline and Welfare Committee of the Organization.

13. REQUIREMENT FOR APPEARING SEMESTER EXAMINATION

13.1 A Candidate shall be permitted to appear for semester examination only if:

1. He/ She secures not less than 75% overall attendance arrived at by taking into account the total number of periods in all subjects put together offered by the institution for the

semester under consideration. (Candidate who secure overall attendance greater than 60% and less than 75% have to pay a condonation fee as prescribed by the Institution along with a medical certificate obtained from a medical officer not below the rank of Asst Director)

2. He/ She earn a progress certificate from the Head of the Institution for having satisfactorily completed the course of study in all the subjects pertaining to that semester.

3. His/ Her conduct is found to be satisfactory as certified by the Head of the Institution. A candidate who has satisfied the requirement (1) to (2) shall be deemed to have satisfied the course requirements for the semester.

13.2 Scribe for End Semester Examination.

If any student is not in position to write end semester examination on account of temporary physical disability or injury due to accident and applies for a scribe (writer) with medical certificate obtained from a medical officer not below the rank of Assistant Director level, then a scribe shall be allowed / assigned by COE to such student. Normally, such scribe shall neither be a student or a degree holder of any technical programme having similar competency. The student shall, however, apply in a prescribed proforma to COE asking for permission letter to the student for using the scribe well in advance, not the day of examination to make necessary arrangements (Scriber, Separate Examination Hall etc.). COE shall then take the undertaking from the scribe in a prescribed proforma. Such student shall produce the permission letter from COE for using scribe to the invigilator. He/She should pay the TA/DA and other charges to the scribe. Scribe shall be allowed extra time as per norms of Controller of Examinations.

13.3 Differently Abled Candidate Examination.

In case any student is admitted with differently abled category. Students who can write but at much slower speed as compared to normal student, he/she may be allowed as extra time of 30 minutes for 50 marks paper and 60 minutes for 100 marks paper to write the examination for all the courses, provided he/she seeks permission from COE for extra writing time on account of his/her percentage of disability by producing necessary medical certificate from medical officer.

14. ASSESSMENT PROCEDURE

14.1 Theory Courses
All theory courses shall be assessed as per Table 14.1.1.

Table 14.1.1 Assessment method for Theory Courses

Assessment	Continuous Assessment Marks (CAM)				End Semester Examination (ESE) Marks	Total Marks
	CAT 1	CAT 2	Model Exam	Attendance		
Marks	45 (Best of 2 from 3 Test,200 marks reduced to 45 marks)			5	50	100

i). Continuous Assessment:

Continuous Assessment Marks shall be based on attendance, Continuous Assessment tests and assignments.

a. **Attendance:**

5 Marks for class attendance in the particular subject. The distribution of marks for

attendance is as follows:

5 marks for 95% and above
4 marks for 90% and above but below 95%
3 marks for 85% and above but below 90%
2 marks for 80% and above but below 85%
1 mark for 75% and above but below 80%

b. Continuous Assessment tests:

Continuous Assessment test carries 45 marks. Performance in all the tests will be taken for assessment as follows:

Table 14.1.2 Weightage of Assessment for Theory Courses

S. No	Test	Portion for Test	Test Marks	Duration of Test	Weightage for Internal Marks
1	CAT - 1	2 Units	50 (Converted to 100)	1 hour 30 Minutes	Best of 2 from 3 Test, 200 marks reduced to **45**
2	CAT - 2	2 Units	50 (Converted to 100)	1 hour 30 Minutes	
3	Model Exam	All 5 Units	100	3 hours	
Continuous Assessment Tests Marks for Theory courses					45

.
Improvement Test 1 & 2 is optional for the students those who want improvement in the internal marks based on their request to the department consultative committee.

ii). End Semester Examination:

The duration of examination shall be 3 hours with a maximum of 100 marks which will be reduced to 50.

iii). Question Paper Pattern – Theory

The question paper pattern of CAT, Model and End Semester Examination for Theory courses as per the Table 14.1.3, and 14.1.4 shall be followed.

Table 14.1.3 Question Paper pattern for CAT 1 and 2

2 Mark Questions	15 Mark Questions	Total Marks
10	2 (Out of 3 Questions)	50

Table 14.1.4 Question Paper pattern for Model and End Semester Examinations

2 Mark Questions	16 Mark Questions	Total Marks
10 (two questions from each unit)	5 (out of 5 Questions, one from each unit)	100

14.2 Theory Cum Studio Courses

All theory cum Studio courses shall be assessed as per Table 14.2.1.

Table 14.2.1 Assessment method for Theory Cum Studio Courses

Assessment	Continuous Assessment Marks (CAM)				End Semester Examination (ESE) Marks	Total Marks
	CAT 1	Model Exam	CAT 2*	Attendance		
Marks	20		25	5	50	100

* The Second assessment (CAT-2) will be in the form of Assignment / <u>Miniature Models</u> / Portfolio

i). Continuous Assessment:

Continuous Assessment Marks shall be based on attendance, Continuous Assessment tests and assignments.

a. Attendance:

5 Marks for class attendance in the particular subject. The distribution of marks for attendance is as follows:

5 marks for 95% and above
4 marks for 90% and above but below 95%
3 marks for 85% and above but below 90%
2 marks for 80% and above but below 85%
1 mark for 75% and above but below 80%

b. Continuous Assessment tests:

Continuous Assessment test carries 45 marks. Performance in all the tests will be taken for assessment as follows:

Table 14.2.2 Weightage of Assessment for Theory Courses

S. No	Test	Portion for Test	Test Marks	Duration of Test	Weightage for Internal Marks
1	CAT - 1	2 Units	50 (Converted to 100)	1 hour 30 Minutes	20 (Combined of 2 Test Marks)
2	Model Exam	All 5 Units	100	3 hours	
3	CAT - 2	All 5 Units Drawings	25	-	25 (Portfolio)
Continuous Assessment Tests Marks for Theory Cum Studio courses					45

.
Improvement Test 1 & 2 is optional for the students those who want improvement in the internal marks based on their request to the department consultative committee.

ii). End Semester Examination:

The duration of examination shall be 3 hours with a maximum of 100 marks which will be reduced to 50.

iii). Question Paper Pattern – Theory cum Studio

The question paper pattern of CAT, Model and End Semester Examination for Theory courses as per the Table 14.2.3, 14.2.4 and 14.2.5 shall be followed.

Table 14.2.3 Question Paper pattern for CAT 1

2 Mark Questions	15 Mark Questions	Total Marks
10	2 (Out of 3 Questions)	50

Table 14.2.4 Question Paper pattern for CAT 2

25 Marks	Total Marks
Drawing Portfolio as per the Syllabus	25

Table 14.2.5 Question Paper pattern for Model and End Semester Examinations

2 Mark Questions	20 Mark Questions	Total Marks
10 (two questions from each unit)	4 (out of 4 Questions, one from each unit, 4 th question option will be from unit-5)	100

14.3 Studio Courses

Studio-based courses (Course with Full Studio component – Foundational Space Design Studio, Rural Architectural Design Studio, Campus Design Studio, Urban Mixed Use Design Studio, Multi-Level Complex Design Studio, High Rise Commercial and Residential Design Studio etc.)

The portfolio of work will be evaluated individually for the total sessional marks of 50. End semester assessment will be done by **two numbers of duly appointed External examiners for Two days** through Viva –voce exam for the remaining 50 marks.

All Studio courses shall be assessed as per Table 14.3.1.

Table 14.3.1 Assessment method for Studio Courses

Assessment	Continuous Assessment Marks (CAM)				End Semester Viva Voce (ESE) Marks	Total Marks
	Concept	Design Development	Presentation	Attendance		
Marks	10	20	15	5	50	100

14.4 Professional Training

At the completion of a Professional Training the student will submit a portfolio duly signed by the Training Architect, which will be evaluated by **Two numbers of duly appointed examiner(s) for Two Days.**

Table 14.4.1 Assessment method for Professional Training

Assessment Tool	Weightage	Split up of Marks	
		Internal	**External Viva-voce**
Total in-semester Assessment	100%	45 + 5 for attendance (100 reduced to 45)	50 (100 reduced to 50)

Internal Marks will be based on the performance in Intern Office and Presentation of Portfolio submitted in College at the end of the Practical Training.

14.5 Thesis

B.Arch Thesis as for as possible should be socially relevant and attempt to improve existing Design standards in buildings. B.Arch. thesis work will be carried out individually by the students. The internal assessment for 50% of the marks will be done by a thesis review committee, comprising of a renowned practicing architect, Experienced Academic Expert the Head of institution and the guide at least once in a month to monitor the progress. At the completion of a Thesis the student will submit a Thesis report, the presentation drawings and models, which will be evaluated by two numbers of duly appointed examiner(s) for Two Days. The evaluation will be based on a viva voce examination of the project at the end of the semester for the remaining 50% of the marks. The grade will be awarded to the student on the basis of the total marks obtained by him/her out of 100.

The Thesis shall be submitted within **30 calendar days** from the last working day of the semester. If a student fails to submit, he/she will not be allowed to appear for the End Semester Viva Voce Examination.

Table 14.5.1 Assessment method for Thesis

Assessment tool	Weightage	Remarks		
Review 1	5 marks			
Review 2	10 marks			
Review 3	10 marks			
Review 4	10 marks			
Internal Review	10 marks			
Total in-semester assessment	45%(100 reduced to 45)	45% + 5% for attendance		
End semester viva-voce	50% (100 reduced to 50)	Split up of marks		
		Concept	Design Development	Presentation
		15	20	15

15. SCHEME OF END SEMESTER EXAMINATION

Table 15.1 Scheme of End Semester Examination

Course	Duration of End Semester Exam (In Hours)	Internal Assessment Marks	End Semester Exam marks	Total	Attendance Code
All Theory Courses	3 hrs.	50	50	100	Applicable
All Theory cum Studio Based courses	3 hrs.	50	50	100	Applicable
All Studio Based courses	Two Days (viva-voce)	50	50	100	Applicable
Professional Training	Two Days (viva-voce)	50	50	100	Applicable
Thesis	Two Days (viva-voce)	50	50	100	Applicable

Table 15.2 Marks requirement to pass the course

	Theory/ Elective courses			Theory cum Studio courses Drawing &construction- based studio courses			Design Based studio courses			Architectural Thesis			Professional Training		
	IA	ESE	TM	IA	ESE	TM	IA	ESE	TM	IA	ESE	TM	IA	ESE	TM
Max	50	50	100	50	50	100	50	50	100	50	50	100	50	50	100
Min	-	23	50	-	23	50	-	23	50	-	23	50	-	23	50
Min pass %	-	45	50	-	45	50	-	45	50	-	45	50	-	45	50

16. LETTER GRADES AND GRADE POINTS(GP)

Based on the aggregate of marks obtained through internal assessment and external assessment, each student is awarded a final letter grade at the end of the semester in each Course.

Table 16.1 Grade Points by Range of Total Marks.

Range of Total Marks	Letter Grade	Grade Points
90 to 100	S	10
80 to 89	A	9
70 to 79	B	8
60 to 69	C	7
55 to 59	D	6
50 to 54	E	5
0 to 49	F	0
Incomplete	FA	

16.1 'F' Denotes failure in the Course. 'FA' denotes absent / detained.

After results are declared, grade sheets will be issued to the students. The Grade sheets will contain the Following details:

(a) The College in which the candidate has studied.

(b) The list of courses enrolled during the Semester and the grades scored.

(c) The Grade Point Average (GPA) for the semester and The Cumulative Grade Point Average (CGPA) for all enrolled subjects from first semester onwards.

(d) GPA is the ratio of sum of the products of the number of credits © of courses registered and the corresponding grade points (GP) scored in those courses, taken for all the courses and sum of the number of credits of all the courses
GPA = (SUM OF (C x GP) / SUM OF C)
CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. FA grades are to be executed for calculating GPA and CGPA.
The conversation of CGPA into percentage marks is as given below
% MARKS = (CGPA – 0.5) X 10

(e) COA Student Enrolment number will be mentioned in the Final Consolidated mark sheet.

17. REVALUATION FOR THEORY AND THEORY CUM STUDIO

A Candidate can apply for Revaluation for a theory course and theory cum studio course, within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examination through the Head of Institution. Based on the recommendation, the candidate can register for revaluation through proper application to the Controller of Examination. The Controller of Examination will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institution. Candidate can apply for revaluation of answer scripts not exceeding 5 subjects at a time.

Students can Apply Photocopy of Answer Scripts before applying revaluation.

Revaluation shall not be permitted for all Studio Courses, Professional training and Thesis where Viva- Voce Examination is involved.

17.1 Review for Theory and Theory cum Studio.

Candidates not satisfied with Revaluation can apply for Review of his/her examination answer paper in a theory course and theory cum studio, within the prescribed date on payment of a prescribed fee through proper application to controller of Examination through the Head of the institution. Candidates applying for photocopy-cum-Revaluation only are eligible to apply for review.

18. PROVISION TO CONDUCT THE SUPPLEMENTARY EXAMS

The Supplementary exams to be conducted to all Theory cum Studio and Studio courses within 30 days from declaration of the results, the improved portfolio will be submitted to the External in Viva Voce. However, the internal marks secured by the students earlier will be retained.

18.1 For Theory Courses, an additional supplementary examination exclusively conducted in the Fifth and Tenth Semester.

19. GRADE CARD

19.1 The grade card issued by the Controller of Examinations to each student, after the announcement of the results will contain the following:

1. The credits for each course registered for that semester,
2. The letter grade obtained in each course
3. The total number of credits earned by the student up to the end of that semester in each of the course categories
4. The Cumulative Grade Point Average (CGPA) and GPA of all the courses taken from the semester onwards.
5. In Consolidated Mark sheet Council of Architecture Student Enrolment Number to be printed.

19.2 Class/Distinction will be awarded to the students after they successfully complete the B.Arch. programme as per the norms stipulated in the following table:

Table.19.2.1 Class / Distinction

Category	CGPA (From I-X semesters)	Class / Distinction
Students who successfully complete the B.Arch. programme within the time duration of 10 semesters	< 6.5	Second Class
	≥ 6.5 &< 8.5	First Class
	≥ 8.5	First Class with Distinction (only if no arrear history)
Students who cannot complete the B.Arch. programme in 10 semesters but complete it successfully within the time duration of 16 semesters.	≥ 6.5 &< 8.5	First Class
	< 6.5	Second Class

19.3 For the Award of Gold Medal for each branch of study, the CGPA secured from 1st to 10th semester alone should be considered and it is mandatory that the candidate should have passed all the subjects from 1st to 10th semester in the first attempt. Rank certificates would be issued to the first ten candidates.

20. ACADEMIC DISHONESTY

When a student is found responsible for a violation of the School of Architecture – Sri Manakula Vinayagar Engineering College code of conduct pertaining to academic dishonesty (Malpractice in Examinations), the Office of Controller of Examinations will initiate action based on the pre-approved procedures. Appropriate penalty or punishment will be awarded to the student and communication sent to the concerned Head of the Institution.

21. ELIGIBILITY FOR AWARD OF THE B. ARCH DEGREE

A student shall be declared to be eligible for the award of the B.Arch. degree if he/she has Registered and successfully completed all the courses and Thesis, Professional Training as per the curriculum.
   a) Successfully acquired the minimum required credits as specified in the curriculum.
   b) No disciplinary action pending against him/her.
   c) **Two Compulsory Educational Tours apart from the site / field visit.**

22. QUESTION PAPER PATTERN

1. The questions in the End Semester Examinations of Theory and Theory cum Studio courses will cover the following three aspects
   - Remembrance
   - Understanding
   - Application / Design/ Analysis/ Evaluation/ Creativity/ Case Study (whichever is suitable to the subject.)
2. The percentage and way in which these aspects should be incorporated will be broadly based on the nature of each subject and its unique content.
3. The distribution of questions will be broadly based on weightage of each unit/ number of periods in a unit.
4. There will be no subdivisions in a Part A question.
5. There will be a maximum of two subdivisions in a Part B question.
6. In order to cover content as per weightage of units as well as not to leave a unit in choice, a Part B question (especially in the case of Theory cum Studio where the number of questions is not equal to the number of units), if required, can integrate knowledge across units or have subdivisions with questions from related units.
7. Care should be taken to give choices between questions of broadly similar nature (in terms of remembrance/ understanding/ application/ design/ analysis/ evaluation/

creativity/ case study) in Part B.

TABLE 1- SEMESTER I

A. THEORY COURSES

Code	Subject	Duration	Part A	Part B
U23TH0100	Mathematics	3 hrs	**10** questions X **2** marks = **20**	**5** questions X **16** Marks = **80**
U23TH0101	Introduction to Architecture	3 hrs	1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern

B. THEORY CUM STUDIO COURSES

Code	Subject	Duration	Part A	Part B
U23TS0102	Communication English	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**4** questions X **20** Marks=**80** 1. Essay type questions covering first four units depending on the weightage of the units, whereas fifth unit is practical based. 2. Questions in Either/Or pattern

C. STUDIO COURSES

Code	Subject	Duration	
U23ST0103	Fundamental Art Studio	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.
U23ST0104	Introduction to Graphics	3 hrs	
U23ST0105	Fundamental Design Studio	2 days	

TABLE 2- SEMESTER II

A. THEORY COURSES

Code	Subject	Duration	Part A	Part B
U23TH0206	Structural Mechanics	3 hrs	**10** questions X **2** Marks=**20**	**5** questions X **16** Marks=**80**
U23TH0207	History of Architecture - Civilizations	3 hrs	1. Objective type questions covering all units depending on the weightage of theunits 2. All questions compulsory	1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern

B. STUDIO COURSES

Code	Subject	Duration	
U23ST0208	Building Elements and Finishes	2 days	
U23ST0209	Perspective and Measure Drawings	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.
U23ST0210	Architectural Model Making	2 days	
U23ST0211	Foundational Space Design Studio	2 days	

TABLE 3- SEMESTER III

A. THEORY COURSES

Code	Subject	Duration	Part A	Part B
U23TH0312	Structural Analysis of Beams and Columns	3 hrs	**10** questions X **2** Marks=**20**	**5** questions X **16** Marks=**80**
U23TH0313	History of Indian and Islamic Architecture	3 hrs	1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern

B. THEORY CUM STUDIO COURSES

Code	Subject	Duration	Part A	Part B
U23TS0314	Surveying and Site Analysis	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**4** questions X **20** Marks=**80** 1.Essay type questions covering first four units depending on the weightage of the units, whereas fifth unit is practical based. 2.Questions in Either/Or pattern.
U23TS0315	Climate responsive Architecture	3 hrs		

C. STUDIO COURSES

Code	Subject	Duration	
U23ST0316	Building Materials in Construction	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.
U23ST0317	Rural Architectural Design Studio	2 days	

TABLE 4- SEMESTER IV

A. THEORY COURSES

Code	Subject	Duration	Part A	Part B
U23TH0418	Structural Steel Design	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**5** questions X **16** Marks=**80** 1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern
U23TH0419	History of Early Christian to Baroque Architecture	3 hrs		

B.THEORY CUM STUDIO COURSES

Code	Subject	Duration	Part A	Part B
U23TS0420	Services on Water Supply and Waste Management	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**4** questions X **20** Marks=**80** 1. Essay type questions covering first four units depending on the weightage of the units, whereas fifth unit is practical based. 2. Questions in Either/Or pattern

C. STUDIO COURSES

Code	Subject	Duration	
U23ST0421	Metals in Building Construction	2 days	
U23ST0422	Computer Aided Design	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.
U23ST0423	Campus Design Studio	2 days	

TABLE 5- SEMESTER V

A. THEORY COURSES

Code	Subject	Duration	Part A	Part B
U23TH0524	Design of Structural Members	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**5** questions X **16** Marks=**80** 1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern
U23TH0525	History of Modern, Post Modern and Contemporary Architecture	3 hrs		
	Professional Elective - I	3 hrs		

B. THEORY CUM STUDIO COURSES

Code	Subject	Duration	Part A	Part B
U23TS0526	Services on Electricity and Acoustics	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**4** questions X **20** Marks=**80** 1. Essay type questions covering first four units depending on the weightage of the units, whereas fifth unit is practical based. 2. Questions in Either/Or pattern

C. STUDIO COURSES

Code	Subject	Duration	
U23ST0527	Concrete in Building Construction	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.
U23ST0528	Urban Mixed Use Design Studio	2 days	

TABLE 6- SEMESTER VI

A. THEORY COURSES

Code	Subject	Duration	Part A	Part B
U23TH0629	Building Automation and Control Systems	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**5** questions X **16** Marks=**80** 1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern
U23TH0630	Specification and Estimation	3 hrs		
	Professional Elective II	3 hrs		
	Professional Elective III	3 hrs		

B.STUDIO COURSES

Code	Subject	Duration	
U23ST0631	Architectural Design Detailing	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.
U23ST0632	Multi - Level Complex Design Studio	2 days	

TABLE 7- SEMESTER VII

A. THEORY COURSES

Code	Subject	Duration	Part A	Part B
U23TH0733	Professional Practice and Ethics	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**5** questions X **16** Marks=**80** 1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern
U23TH0734	Landscape and Ecology	3 hrs		
	Professional Elective - IV	3 hrs		
	Professional Elective -V	3 hrs		

B. THEORY CUM STUDIO COURSES

Code	Subject	Duration	Part A	Part B
U23TS0735	Services on AC, Fire Safety and Mechanical Transportation	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**4** questions X **20** Marks=**80** 1. Essay type questions covering first four units depending on the weightage of the units, whereas fifth unit is practical based. 2. Questions in Either/Or pattern

C.STUDIO COURSES

Code	Subject	Duration	
U23ST0736	High Rise Commercial and Residential Design Studio	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.

TABLE 8 – SEMESTER VIII

A. PRACTICAL TRAINING

Code	Course Title	Duration	
U23PT0837	Professional Training	2 days	Portfolio examined through a Viva Voce Examination by one External Examiner (who shall be a Practicing Architect) unique for each batch of 40 and appointed by COE.

TABLE 9- SEMESTER IX

A. THEORYCOURSES

Code	Subject	Duration	Part A	Part B
U23TH0938	Human Settlement and Planning	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**5** questions X **16** Marks=**80** 1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern
U23TH0939	Urban Design	3 hrs		
U23TH0940	Urban Housing	3 hrs		
	Professional Elective IV	3 hrs		

B. STUDIO COURSES

Code	Subject	Duration	
U23ST0941	Urban Design Studio	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.

TABLE 10 – SEMESTER X

A. THEORY COURSES

Code	Course Title	Duration	Part A	Part B
U23TH1042	Disaster Management Architecture	3 hrs	**10** questions X **2** Marks=**20** 1. Objective type questions covering all units depending on the weightage of the units 2. All questions compulsory	**5** questions X **16** Marks=**80** 1. Essay type questions covering all units depending on the weightage of the units 2. Questions in Either/Or pattern

B. THESIS

Code	Course Title	Duration	
U23ST1043	Architectural Thesis	2 days	Portfolio examined through a Viva Voce Examination by two External Examiners (of which one shall be a Practicing Architect) unique for each batch of 40 students and appointed by COE.

23. CHANGE OF REGULATIONS

The School of Architecture may from time to time revise, amend or change the regulation, curriculum and syllabus as and when found necessary.