



**MANIPAL SCHOOL  
OF ARCHITECTURE AND PLANNING**  
MANIPAL  
(A constituent unit of MAHE, Manipal)

**REGULATIONS,  
SCHEME OF EXAMINATION  
AND  
SYLLABUS**

(As prescribed by Manipal Academy of Higher Education)

**MASTER OF ARCHITECTURE  
(M. Arch, Urban design & Development)**

Two Year Degree Program

(2024 Scheme)

APPLICABLE FROM THE ACADEMIC YEAR

2024 - 2025

*Poo*  
1.7.24

Deputy Registrar - Academics (Tech.)  
MANIPAL ACADEMY OF HIGHER EDUCATION  
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*Ramesh*

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## **PREAMBLE:**

Urban design and development was initiated in the year 2014 at the Manipal School of Architecture and Planning, Manipal Academy of Higher Education, Manipal as a program where the traditional scope of designing architectural attributes for public places and cities was combined with allied fields of planning concerns of sociology and economics. This course has a holistic approach towards urban design addressing the contemporary and future needs of the city and its dwellers through design and theories. With the change in demographic trends observed due to globalisation and urbanisation, cities today need to be addressed more than ever before.

In addition to this, the curriculum also addresses the understanding of urban form, typologies, aesthetics, identity, and user behaviour, in the cities through urban design studios and core theoretical Courses offered. The same is dovetailed with multi-disciplinary Courses like urban sociology, transportation, urban governance, policies and regulations, environmental management, climate change and sustainable cities to get an overall understanding of contemporary urban issues. Professional electives are offered to engage more interactively. Mandatory Learning Courses are offered to develop and inculcate necessary skills for the students.

The institute follows outcome-based education where the student's performance is the focus of the system. Best practices of delivery and evaluation are incorporated to give the student the best possible education experience during the course. The student has ample scope and the opportunity to join research groups, and interdisciplinary forums to form their own special identity in the profession and give maximum options to develop a good platform to launch in the profession.

MAHE, an institute of Eminence and Manipal School of Architecture and Planning have enabled the students to participate in classes of various disciplines in 22 institutes of MAHE. The students also get to participate in exchange programs across partner Universities through semester exchange or through AISEC, IAESTE internship options. The institution is developing centres of research and many interdisciplinary research groups safeguarding the interests of people and places. Urban Designers play a major role in spatial planning, and design thus, making the spatial environment healthy, sustainable & inclusive. Overall, the growth of the institute and courses has led to expansion in various dimensions and disciplines across many roles that an architect and designer could do. This is reflected in our education system, syllabus and objectives of the department.

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## MANIPAL SCHOOL OF ARCHITECTURE AND PLANNING

### VISION

Excellence in design education, enabling sustainable endeavours for societal well-being.

### MISSION

**M1:** Develop core competencies of design and professionalism to address societal and environmental concerns.

**M2:** Enable experiential learning and community engagement to encourage inclusive and sustainable design.

**M3:** Provide an international platform for interdisciplinary learning and collaborative research.

### PROGRAM EDUCATIONAL OBJECTIVES (PEO)

**PEO 1:** Graduates will be able to apply the knowledge of urban design and allied Courses to address complex, interdisciplinary issues considering societal and environmental contexts.

**PEO 2:** Graduates will be able to apply analytical and spatial tools & techniques for solving urban development issues.

**PEO 3:** Graduates will be able to communicate well, work effectively with team and stakeholders, and exhibit ethical conduct and demonstrate leadership qualities.

**PEO 4:** Graduates will be able to engage in lifelong learning, career augmentation, pursuing higher education, research and adapt to professional and societal needs.

### PROGRAM OUTCOMES (PO)

**PO 1: Knowledge:** To achieve the required skills by understanding various dimensions and tangents of urban design.

**PO 2: Analysis:** To be equipped with scientific methodology and strategies to evaluate the holistic development scenarios.

**PO 3: Synthesis:** To use evidence-based research for interpretation and synthesis of the information to provide reliable conclusions by applying critical thinking.

**PO 4: Social responsibility:** To facilitate the needs and aspiration of the society.

**PO 5: Ethics:** To foster an ethical framework and decision making.

**PO 6: Individual and teamwork:** To function effectively as an individual, as a team member and leader in diverse fields.

**PO 7: Lifelong learning:** To be able to adapt and upgrade to changing scenarios and acquire knowledge for continued learning.



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## VERTICAL INTEGRATION

The curriculum is designed with courses that vertically and horizontally integrate with the range of courses that strengthen the Professional Core Courses as a cumulative learning. As an overview of themes, the first three semesters focus on developing the student's knowledge base and skill sets, the final semester is a culmination of the learnings to explore and expand the application and professional needs. Themes are intricately woven into each semester's curriculum, facilitating a progressive accumulation of knowledge and skills, thereby preparing students for the challenges and complexities they will encounter in their professional endeavors.

Urban design history, technical and policy related courses are embedded in the first semester. Urban Design & Development Lab-I forms the core studio which is dovetailed with the course on site planning to understand the context. Further, the second semester has been developed based on technical skills, urban design deliberations, mandatory learning course (MLC) and electives in the form of dialogues in urban design, fundamentals of transport planning, urban land economics and design studio. The transport planning and land economics aid to understand the complexities of a larger city, that the students take up in the third semester aided with an introduction to infrastructure planning in major cities. A summer internship is a mandatory learning course (MLC) during the summer break between the second and third semesters. The pre-thesis in the third semester enables the student to develop his/her interest and explore and manifest into a project that is taken up as a design thesis in the fourth semester.



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## 1. PROGRAM REGULATIONS

### 1.1 Title of the Program

Postgraduate degree program in Urban Design & Development - **Master of Architecture**, abbreviated to M. Arch (UDD).

### 1.2 DURATION OF THE PROGRAM

#### 1.2.1 Normal Duration: M. Arch, Urban Design & Development

M.Arch. (Urban Design & Development) – 2 years (4 Semesters). The full-time postgraduate degree program shall be completed in a maximum period of three years by a candidate. However, in special circumstances, the candidate may be granted an extra one year by the university to complete the Programme, this shall be given only once to the candidate and treated as zero year. (Refer to 'Council of Architecture MINIMUM STANDARDS OF ARCHITECTURAL EDUCATION FOR POST-GRADUATE DEGREE PROGRAM, 2022' document; Clause 3.4, pg. 01)

#### 1.2.2 Credits of the Program

The number of credits to be completed by students admitted into the M. Arch, (UDD) program shall be 80.

### 1.3 PROGRAM STRUCTURE

The program is tailored for two years (4 Semesters) with coursework at the Institute for 1st, 2nd, 3rd, 4<sup>th</sup> and Internship during summer break (in between 2nd & 3rd Sem.). Each semester of the program consists of 15 weeks of classes and related academic activities, followed by an end-semester examination.

After the declaration of the results, make-up examinations will be conducted as per the academic calendar.

### 1.4 EDUCATIONAL PROCESS

#### 1.4.1 Program of Studies and Educational Process

The program comprises of Core Studio Courses, Theory Courses, Mandatory Learning Courses (MLC) (Table 1)

## 1.4.2 Course Categories

<b>Core Studio Courses with End Sem Viva-Voce</b>	Urban Design and Development I/II/III & Thesis.
<b>Studio Courses with End Sem Viva-Voce</b>	Site Planning in the first semester is studio-based and must be dovetailed with Urban Design & Development Lab-I (UDDL-I).
<b>Theory Courses with End-Semester Examination</b>	<b>Viva -Voce:</b> Dialogues in urban design, Geographic information systems & Pre-thesis. <b>Written examination:</b> Urban design history and techniques, urban governance and policy planning, fundamentals of transport planning, urban land economics & infrastructure planning.
<b>Theory Courses with only In-Semester Assessment</b>	Research Methodology, Indian cities and urbanism, visualising the city, inclusive cities, food and urbanism, cities and sustainability, and urban heritage management.
<b>Mandatory Learning Courses (MLC)</b>	The mandatory learning courses are oriented toward developing an affective domain aimed at enabling the students to respond to the field requirements and improve the skills required. <b>(Summer Internship, Urban Project Management)</b>

Table 1: Course Categories

## 1.5 ATTENDANCE REQUIREMENTS

### 1.5.1 Minimum attendance policy

A student must maintain an attendance record of at least 75% individually in all courses. Attendance of lectures, studios/tutorials, and sessional/tests count towards the calculation of attendance percentage. Without the minimum attendance, students are not





eligible to write the End-semester examination in that course and for subsequent grading.

In case of detention due to less attendance, the student will have to undergo the particular course by re-registering the course to earn the deficient attendance with prescribed fees at a later time along with the regular semester for the course. This may involve an extension of the total course duration and graduation date.

### **1.5.2 Core Studio Course Attendance Requirements**

In case of detention due to less attendance in Core Studio Courses, less than 75% but more than 50%, he/she has to appear for an improvement studio to improve attendance and internals to be eligible for the make-up examination. If a student has attendance in Core studio **LESS** than 50%, he/she has to re-register with prescribed fees to repeat the coursework during the subsequent corresponding semester.

### **1.5.3 Studio Course Attendance Requirements**

In case of detention due to less attendance in Studio Courses, if a student has less than 75% attendance, then he/ she has to re-register for the course with prescribed fees to make up for the deficient attendance during the subsequent corresponding semester.

### **1.5.4 Theory Course Attendance Requirements**

In case of detention due to less attendance in Theory Courses, if a student has less than 75% attendance, then he/she has to re-register for the course with prescribed fees to make up for the deficient attendance during the subsequent corresponding semester.

### **1.5.5 Mandatory Learning Courses (MLC) Attendance Requirements**

In case of detention due to less attendance in Mandatory Learning Courses (MLC), if a student has less than 75% attendance, he/she has to re-register with prescribed fees to repeat the coursework during the subsequent corresponding semester.

## 1.6 CREDIT BASED SYSTEM:

The educational process at Manipal School of Architecture and Planning uses a Credit Based System wherein the course content is expressed in the number of credits. The current syllabus follows a 10-point Credit System and has a total of 80 credits. (Table 2)

Year	Semester	No. of Credits
1	1	22
	2	20
2	3	20
	4	18
Total		80

Table 2: Distribution of credit

Each course is expressed in terms of a certain number of credits. The number of credits assigned to a course depends on the number of contact hours per week. **For lectures and studios, the number of credits is equal to the number of contact hours per week. For practical, 1 hour is equal to .5 credits for workshops/seminar/lab** (Refer to 'Council of Architecture MINIMUM STANDARDS OF ARCHITECTURAL EDUCATION FOR POST-GRADUATE DEGREE PROGRAM, 2022' document; Clause 6, pg. 07) However, a student will be required to carry out assignments and self-studies which may greatly exceed the actual number of contact hours defined for a course.

A student is deemed to have completed a particular semester, when he/she earns all the credits of all courses, i.e., he/she has no 'F' and/or 'I' grade in any course of that semester.

When a student earns the specified number of credits in each of the semester making up the course, he/she is deemed to have completed the requirements for graduation. This also means a student should have an 'E' grade or better in every course of every semester, to be eligible, to receive the degree.



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## 1.7 OUTLINE OF EVALUATION

The students shall be informed about the procedures followed for in-semester assessment and end-semester examination for every course on the first day of the classes for that particular course.

### 1.7.1 End Semester Evaluation

To pass a course, a candidate shall secure a minimum of 50% in the end-semester examination and an aggregate of 50% of the maximum marks of the courses.

### 1.7.2 Evaluation of Core Studio and Studio Courses with Viva-Voce

The student performance in Core Studio Courses Urban Design and Development Lab-I/II/III is evaluated out of 100 marks for the In-semester assessment and 100 marks for the End-semester examination. A minimum of 50% marks is required in the In-semester assessment to be eligible to appear for the End-semester examination.

The End-semester examination for the Core Urban Design and Development Lab (I/II/III) will be conducted through Viva-voce on In-semester coursework by a jury consisting of a panel or a minimum of one internal examiner and one external examiner.

If a student obtains an 'F' grade in the End-semester evaluation of Urban Design and Development Lab (I-III) he/she can appear for the respective Make-up examinations.

If a student has less than 50% marks in the In-semester assessment, he/she has to undergo the improvement studio to be conducted for a minimum of **four weeks** immediately after the announcement of In-semester marks. The improvement studio will be conducted under the supervision of the respective Studio faculty. Students will have to improve and resubmit the regular internal coursework for re-assessment. Students who secure a minimum of 50% marks in the re-assessment will be eligible to appear for the Make-up examination. If the student is unable to obtain a minimum of 50% marks even after the improvement studio, he/she will not be

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eligible for the Make-up examination and will have to re-register for the course with prescribed fees.

### 1.7.3 **Evaluation of Thesis**

The student's performance in the Thesis is evaluated out of 200 marks for the In-semester assessment and 200 marks for the End-semester examination. A minimum of 50% marks is required in the In-semester to be eligible to appear for the End-semester examination. End-semester examination (viva-voce) will be conducted by a jury panel or a minimum of one internal examiner and one external examiner.

If a student obtains an 'F' grade in the End-semester evaluation of Architectural Design Thesis, he/she can appear for the respective Make-up examinations.

If a student has less than 50% marks in the In-semester assessment, he/she has to undergo the thesis work improvement to be conducted for a minimum of **four weeks** immediately after the announcement of In-semester marks. The improvement of the thesis work will be conducted under the supervision of the respective guides. Students will have to improve and resubmit the regular internal coursework for re-assessment. Students who secure a minimum of 50% marks in the re-assessment will be eligible to appear for the Make-up examination. If the student is unable to obtain a minimum of 50% marks even after the improvement, he/she will not be eligible for the Make-up examination and will have to re-register for the course with prescribed fees

If the student is unable to obtain a minimum of 50% marks even after the improvement, he/she will not be eligible for the Make-up examination and will have to re-register for the course with prescribed fees.

### 1.7.4 **Evaluation of Studio Courses with Only In-Semester Assessment**

(Not applicable to M.Arch UDD)



### 1.7.5 Evaluation of Theory Courses with End-semester Examination

The student performance in each Theory course is evaluated out of a maximum of 100 marks out of which 50 marks are for In-semester assessment and 50 marks for end-semester examination / Viva-Voce. The In-semester assessment in theory courses is based on sessional, assignments, presentations, seminars, etc.

If a student with 'F' grade wants to improve the in-semester assessment he/she can re-register for those courses during subsequent corresponding semesters by paying the prescribed fees, and improve in-semester assessment requirements.

### 1.7.6 Evaluation of Theory Courses with Only In-semester Assessment

The student performance in Theory Courses with only In-semester assessment is evaluated out of a maximum of 100 marks. A minimum of 50% marks is essential to pass the Courses. There will be no end-semester examination. The In-semester assessment of a student is based on his/her portfolio, time test and presentations of the completed assignments.

Students with an 'F' grade in any courses with only in-semester assessment should re-register for those courses during subsequent corresponding semesters whenever possible by paying the prescribed fees and improve the in-semester assessment requirements and earn the minimum 50% marks.

### 1.7.7 Evaluation of Summer Internship (between Second and Third semesters)

Students shall undergo an internship for the **equivalent to the days in the summer break between second and third semesters and have a minimum of 75% attendance. Students may work in government bodies like urban development authorities, municipalities, or firms working on larger scale urban architecture, urban design, urban planning, urban conservation, Environmental planning, or similar firms and also at centres in MAHE, that are working in similar or Urban scale projects in their research.** The students are permitted to carry out internships anywhere in India or



abroad. The students shall undergo internship in a single organization only. The change of office /firm shall be permitted only under extraordinary circumstances with due approval from the HOI.

Each candidate shall produce the documents towards fulfilling the requirements of the training manual of the Manipal School of Architecture and Planning.

The candidates who have completed the summer internship shall submit the report and give a brief presentation on the work done during the summer internship in the third semester. The End-semester evaluation will be given as 'Satisfactory' or 'Non-Satisfactory' based on the requirements specified in the Training Manual which will appear in the Grade Sheet accordingly. However, it is not included in the CGPA calculation.

In case the student is awarded 'Non-Satisfactory', he/ she has to undergo improvement and resubmit the work as per the manual for the internship. If the student is awarded 'Non-Satisfactory' even after the improvement, then he/ she has to re-register for a summer internship in the subsequent corresponding semester by paying prescribed fees.

#### **1.7.8 Evaluation of Mandatory Learning Courses (MLC)**

Mandatory Learning Courses are compulsory courses a student has to undergo to satisfy the credit requirements of the program. The grading of the course shall be limited to Satisfactory/ Non-Satisfactory performance which will appear in the Grade Sheet accordingly. However, these grades are not included in the CGPA calculation.

If the student is awarded 'Non-Satisfactory' then he/ she has to re-register for the course in the subsequent corresponding semester by paying prescribed fees.

## 1.8 EVALUATION PROCEDURES

For each Course, in-semester assessment and end-semester examination (wherever applicable) together contribute to the final grade awarded for the Course.

### 1.8.1 Relative Grading

Marks obtained in the in-semester assessment and end-semester examination are added together and a 10-point grading system will be used to award the student with an overall letter grade for the Course.

### 1.8.2 Letter Grading System

Final evaluation of a Course is carried out on a TEN POINT grading system. Grades and Grade Points are as shown below (Table 3):

Grade	A+	A	B	C	D	E	F (Fail)
Grade Points	10	9	8	7	6	5	0

Table 3: Grades and Point Distributions

A student who earns a minimum of 5 grade points (E grade) in a Course is declared to have completed the Course and is deemed to have earned the credits assigned to that Course. A Course completed cannot be repeated.

Students who fail to appear for the end-semester examination will be awarded an 'F' grade on the grade sheet. Students who fail to appear for end-semester examinations due to genuine reasons are eligible for an 'I' (incomplete) grade (prior approval of the Director is necessary before examination). Students with an 'I' grade/s should register for the make-up examination.

### 1.8.3 Grade Point Average (GPA) & Cumulative Grade Point Average (CGPA)

Each Course grade is converted into a specific number of points associated with the grade. These points are weighted with the number of credits assigned to a course. The Grade Point Average

(GPA) is the weighted average of Grade Points awarded to a student. The grade point average for each semester will be calculated only for those students who have passed all the courses of that semester. The Cumulative Grade Point average (CGPA) will be the weighted average of GPAs of all semesters after the program completion.

For Example (Table 4):

Courses	Credits	Letter Grade	Grade Value	Credit Value	Grade Points
Maths	3	C	7	3 x 7	21
Chemistry	3	B	8	3 x 8	24
Physics	3	A	9	3 x 9	27
English	2	B	8	2 x 8	16
Total	11	Total			88

Table 4: Calculation of GPA & CGPA

In this case, GPA = Total Grade Points/ Credits = 88/ 11 = 8

Suppose the GPA in two successive semesters are 7.0 and 8.0 with 26 and 24 respective course credits, then, the

$$CGPA = \frac{(7.0 * 26) + (8.0 * 24)}{26 + 24} = \frac{374}{50} = 7.48$$

**Generally,**

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

$$CGPA = \frac{\sum_{j=1}^N GPA_j * (\sum_{i=1}^n C_i)_j}{\sum_{j=1}^N (\sum_{i=1}^n C_i)_j}$$

**Where,**

$n$  = number of courses

$C_i$  = number of credits

$N$  = number of semesters

$G_i$  = corresponding grades

$G_j$  = corresponding grades





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## **1.9 VALUATION AND PERSONAL SCRIPT SEEING**

### **1.9.1 Valuation**

Distributed single valuation will be followed for End-semester theory examinations.

### **1.9.2 Paper seeing and Re-evaluation of answer scripts**

A student may apply for the re-evaluation of theory courses only with end-semester examination answer scripts by applying along with the prescribed fee. The student will be able to see his/her answer script and the scheme of valuation on a scheduled date. If not satisfied with the assessment, he/she can request for re-evaluation. The evaluation fee will be refunded in case of any change in grade after re-evaluation. The student will be awarded the grades obtained after re-evaluation irrespective of whether there is any improvement or not.

## **1.10 VERTICAL PROGRESSION**

### **(PROMOTION/ ELIGIBILITY TO HIGHER SEMESTERS)**

A student earns the credits assigned to a course when he/she obtains an "E" or higher grade. Student has to fulfil the attendance and minimum internal requirements to appear for the End-semester examination.

A student can carry forward only one Design course from any of the previous semesters while progressing from an even semester to an odd semester. However, there will be no restriction in progressing from an odd semester to an even semester. The student has to clear all courses up to the penultimate semester to be eligible to appear for Thesis defence in the final semester.

## **1.11 BREAK IN ACADEMIC PROGRAM**

A student who discontinues the Academic Program for any reason and re-joins the Program at a later date shall be governed by the rules, regulations, courses of study and syllabi in force at the time of his/her re-joining the Program. He/ she will have to complete the



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pending coursework as per previous rules and regulations, courses of study, syllabi (applicable before re-joining), and transfer into the prevailing rules and regulations, courses of study and syllabi.

### **1.12 RE-REGISTRATION**

Refer to the corresponding regulations under 1.5 and 1.7 for course re-registration.

### **1.13 END-SEMESTER EXAMINATION AND MAKE-UP EXAMINATION**

The examinations at the end of a particular semester will be conducted only for the courses of the current semester. That is, at the end of the odd semester, examinations of only odd-semester courses will be conducted. Similarly, at the end of the even semester, examinations of only even semester courses will be conducted.

Make-up examinations will be held after the announcement of the results of the regular examinations, to allow the students who fail to secure a minimum 'E' grade, and also for those who missed regular examinations due to valid reasons.

The cut-off marks for grades in the make-up examination will be the same as those in the regular End-semester examination. However, the maximum grade that will be awarded in subsequent examinations to those students who were once awarded an 'F' grade OR who were not eligible for the regular exam due to attendance shortage, in any course will be a 'C' grade. Students who are awarded an 'I' grade, however, are eligible for whatever grade they achieve in subsequent examinations.

A minimum of 50% for courses with End-semester examination is essential to pass the course. A student will earn full credits in any course only when he/she gets the minimum 50% in total aggregate assessments for the course.



### 1.13.1 **Withholding of Results**

Results will be withheld when a student has not paid his/her dues or when there is a case of indiscipline pending against him/her.

### 1.13.2 **Requirements for Graduation**

A student is deemed to have completed the requirements for graduation, if he/she has fulfilled all minimum requirements of study and earned the number of credits specified in the prescribed courses of study, paid all dues to the Institute and has no case of indiscipline pending against him/her.

## 1.14 **REQUIREMENTS OF MINOR SPECIALISATION**

Not Applicable for M.Arch UDD.

## 1.15 **CLASS COMMITTEES**

### 1.15.1 **Constitution of the Class Committees**

A class committee for each semester shall be constituted by the Director comprising of:

**Course Faculty:** Faculty of all courses in the given semester.

**Studio Coordinator:** If there is more than one faculty in any given section for any course one of the faculty will be nominated as the Studio Coordinator for the course for each section.

**Course Coordinator:** If there is more than one section, one of the course faculty will be nominated as the Course Coordinator for the given course.

**Class Committee Coordinator:** A Design Studio faculty from the given semester will be the Class Committee Coordinator who will also chair the Class Committee.

The roles and responsibilities of the above-mentioned committee is defined in Standard Operating Procedures (SOP) of Academics and Examinations.



### **1.16 ASSESSMENT OF CONDUCT**

Students have to comply at all times with the Code of Conduct put forth by the Manipal Academy of Higher Education.

(Refer <https://manipal.edu/mu/campus-life/around-campus/student-discipline.html>).

Any violation will be recorded and reflected in the conduct certificate issued by the institute and/or action taken as per University norms and Institutional policies.

**THE RULES AND REGULATIONS OF THE PROGRAM IS SUBJECTED TO CHANGE/ AMENDMENDED FROM TIME TO TIME, AS AND WHEN NEED ARISES FOR FURTHER IMPROVEMENT IN THE ACADEMIC QUALITY.**