



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

*Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)

DIRECTION NO. 36 OF 2023

**ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF
M.ARCH./M.DES (SEMESTER PATTERN) (CHOICE BASED CREDIT SYSTEM),
DIRECTION, 2023**

Whereas, the Maharashtra Public Universities Act, 2016 (hereinafter 'Act') (VI of 2017) has come into force with effect from 1st March, 2017 and the same has been made applicable to Rashtrasant Tukadoji Maharaj Nagpur University (hereinafter "the University");

AND

Whereas, the University has issued Direction No. 27 of 2022 dealing with the composition of the four faculties created by the Act, where under the existing different faculties of the University have been merged into the four new faculties created by the Act, by which the subject of Engineering and Architecture have been included in the faculty of Science and Technology;

AND

Whereas, introduction of new academic programme requires making of an Ordinance as per the provisions of section 12(7) of the Act, however, since Ordinance making is a time consuming process and there was an urgency in introducing the new "Master of Architecture /Masters of Design (M.Arch/M.Des.) (Semester Pattern) (Choice Based Credit System) programme in the faculty of Science and Technology from the academic session 2020-21 and therefor to meet the urgency Direction was issued by the Vice-Chancellor to issue a Direction under section 12(8) of the Act as an interim measure;

AND

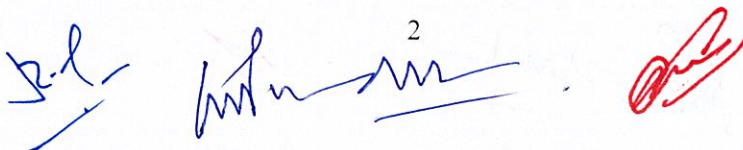
Whereas, some minor changes are introduced in the program of M.Arch as per the need of New National Education Policy, and for uniformity of Grade Letters in the University etc. as per the decision of the Board of Studies in Architecture;

AND

Whereas, DIRECTION NO. 4 OF 2021 ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF M.ARCH./M.DES (SEMESTER PATTERN) (CHOICE BASED CREDIT SYSTEM), DIRECTION, 2021 governing the M.ARCH./M.DES (Full Time) Courses issued by the University has lapsed by virtue of the provisions of proviso to Section 12(8) of the Act, necessitating issuance of a fresh Direction incorporating the provisions of the said lapsed Direction with minor modifications, pending the making of the necessary Ordinance;

Now, therefore, I, Dr. Subhash R. Chaudhari, Vice-Chancellor of Rashtrasant Tukadoji Maharaj Nagpur University, considering the exigency, in exercise of my powers under section 12(8) of the Act, do hereby issue the following Directions: -

1. This Direction shall be called "ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF M.ARCH./M.DES (SEMESTER PATTERN) (CHOICE BASED CREDIT SYSTEM), DIRECTION, 2023.
2. This Direction shall come in to force from the date of its issuance.
3. In this Direction unless the context requires otherwise: -
 - a. "Ad-hoc Committee" means the ad-hoc committee constituted by the university for the subjects of "Computer Engineering" and "Computer Science & Engineering" in the Faculty of Engineering and Technology
 - b. "ATKT" means "Allowed to Keep Term" in the higher semester, as per the rules herein.
 - c. "Course" means a theory, practical (or the combination of theory and practical) subject, and research project, prescribed for any semester and carrying maximum and minimum passing marks, which a student, admitted to the programme of Master of Architecture(M.Arch), Master of Design(M. Des.) governed by this Direction has to study in order to become eligible for the award of the Degree under this Direction.
 - d. "Credit" means the unit by which the course work is measured. It is measured in terms of weekly class hours assigned to a Course.
 - e. "Credit Point" (CP) it is the value obtained by multiplying the Grade Point by the Credit i.e.
No. of Credits assigned for the course \times Grade Points secured for that course.



- f. **“Cumulative Grade Point Average (CGPA)”** CGPA refers to the Cumulative Grade Point Average weighted across all the semesters. It is obtained by dividing total number of credit points in all the semesters by the total number of credits in all the semesters.
- g. **“Degree”** means the Master of Architecture (M.Arch), Master of Design (M. Des.) (Semester Pattern) (Choice Based Credit System).
- h. **“Grade Letter”** it is an index to indicate the performance of a student in a particular course/paper. It is the transformation of actual marks secured by a student in a course/paper. It is indicated by a Grade letter O, A, B, C, D, F and Ab. There is a range of marks for each Grade.
- i. **“Grade Point”** grade Point is weight allotted to each grade letter depending on the marks awarded in a course/paper.
- j. **“Programme”** means the Master of Architecture (M.Arch), Master of Design (M. Des.) (Semester Pattern) (Choice Based Credit System) programme under this Direction.
- k. **“Student”** means a student admitted to the programme under this Direction.
- l. **“Semester Grade Point Average (SGPA)”** SGPA indicates the performance of a student in a given semester. It is based on the total credit points earned by the student in all the courses and the total number of credits assigned to the courses/papers in a Semester.
- m. **“University”** means Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

4. **Admission and eligibility to the Programme:** Subject to the compliance with the provisions of this Direction and other Directions/Ordinances of the University issued from time to time and the other relevant guidelines/directions/instructions issued by Council of Architecture, New Delhi and state of Maharashtra from time to time, following persons shall be eligible for admission to the programme, under this Direction:-

a) M.Arch/M. Des. (First Semester):-

- i) The college shall get the list of admitted students scrutinized and approved from the university, strictly as per sanctioned quota and in accordance with the prescribed rules and regulations.
- ii) The general eligibility qualification for admission to the respective post graduate course shall be as mentioned in Table No. 1 given below:




Table No. 1

Sr. No.	Course M.Arch./M.Des in	Eligibility Qualification B.Arch. of this university or any other statutory university recognized equivalent thereto OR Maharashtra Gov. Equivalence GR.
1	Architecture Education	B.Arch.
2	Environmental Architecture	B.Arch.
3	Industrial Design	B.Arch.
4	Urban Design	B.Arch.
5	Landscape Architecture	B.Arch.

iii) The student should have perceived a regular course of study in a college affiliated to the University for Conduct of the course or a university department/center for not less than one semester in the subjects in which he/she offers for examination.

b) **M. Arch./M .Des (Second Semester):-** A student who has after passing the M.Arch./M.Des. (First Semester) examination prosecuted a regular course of study in a college affiliated to the university for conduct of the course or a university department/ center for not less than one semester in the subjects in which he/she offers for examination.

5. **Duration of the Programme:** The duration of the programme shall be of two academic years consisting of four semesters for which the teaching sessions shall be held during regular college hours and the university examination shall be conducted at the end of each semester namely, the first, second, third and fourth semester.

6. **Medium of Instructions:** The medium of instructions shall be English.

7. **Structure of the Programme:**

i. The **M.Arch./M.Des** (Full Time) programme governed by this Direction & the corresponding Boards of Studies shall be as detailed in the following Table No. 2

Table No. 2

Sr. No.	M.Arch./M.Des.. Specialization	Board of Studies
1	Architecture Education	Architecture
2	Environmental Architecture	Architecture
3	Industrial Design	Architecture
4	Urban Design	Architecture
5	Landscape Architecture	Architecture




Note:- The number of courses (Theory papers, Practical, College Assessment, Project Work, Viva-Voce and Seminar), maximum and minimum passing marks assigned to each of them, the minimum marks required for passing the semester examination shall be as indicated in the respective scheme appended to this Direction.

(The list is subject to necessary revision from time to time as per introduction of new full time course)

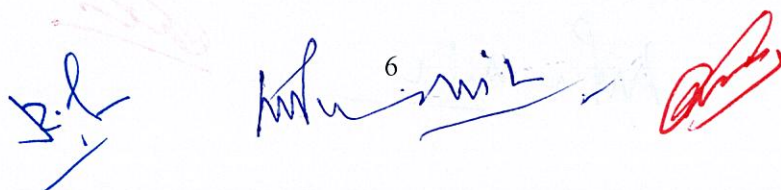
- ii. The scope of the course/subject shall be as indicated in the respective syllabus, appended to this Direction.
 - iii. The subjects under Foundation Course-I, would be taught by Approved Ph.D. Supervisors only and the subjects under Open Electives would be taught by concerned subject teachers only. The paper setting, Moderation and Valuation work would be done by respective BOS who have proposed the said subjects.
 - iv. An examinee shall carry out his/her thesis work beginning from third semester up to the end of fourth semester under the supervision of:
 - a) A recognized Post-Graduate teacher in the college or institute.

OR

 - b) A person from industry or research institute possessing B.Arch. degree in the appropriate subject and has not less than 5 years' experience in an industry or research institution in a responsible capacity.
- OR
- c) A person who is an approved teacher having experience of more than 3 years and post graduate degree in the related specialization or a person who is an approved teacher having Ph.D. degree in related field.
 - d) No faculty can guide more than 5 projects.
- v. The examinee shall submit his Project Work to the university through the Head of institute or college not later than 30th April / 30th October certified by the guide that the work was carried out satisfactorily under his guidance.
- vi. The examinations based on the Project report shall be conducted by the Board of examiners consisting of an external examiner appointed by the university and internal examiner.

8. Scheme of Examinations:-

- i) Subject to the provisions of the general rules of the University with respect to conduct of examinations and in particular the rules regarding payment of examination fees, award of grace marks, eligibility for getting exemption in any passing heads, there shall be end semester examination to be conducted by the University as per the scheme and modalities to be notified from time to time.
- ii) In **M. Arch./M. Des** minimum passing marks for clearing the subject (Theory/Practical) shall be 50% of total marks comprised of College assessment and University assessment taken together.
- iii) The detailed scheme of examination with credits and min. and max. marks prescribed for different theory and Practical courses is given in the Annexures I to V.
Annexure I is for M. Arch.(Architectural Education) Semester I to IV.
Annexure II is for M. Arch.(Environmental Architecture) Semester I to IV.
Annexure III is for M. Arch.(Urban Design) Semester I to IV.
Annexure IV is for M. Des..(Industrial Design) Semester I to IV.
Annexure V is for M.Arch..(Landscape Architecture) Semester I to IV.
- iv) General rules of the University relating to the award of grace marks for passing an examination, securing higher division/class and for securing distinction in subject(s) as modified from time to time shall apply to the examination under this Direction.
- v) An unsuccessful examinee shall be eligible for grant of exemption in any course/paper as per the general rules of the University.
- vi) In the case of unsuccessful examinees, the marks obtained in the college assignment in the subjects, he/ she has failed, shall reappear for internal assessment at the concerned college. The college shall submit fresh marks of the candidate for such subject.
- vii) Where a student wishes to improve his CGPA, he can reappear in the theory exam for improvement of his CGPA in a period of maximum two consecutive year after the declaration of result
- viii) Examinees successful at the final examinations shall on payment of the prescribed fees shall be entitled for the award of the degree of **M. Arch. /M. Des** in the respective specialization & branch of Engineering in the prescribed form signed by the Vice- Chancellor.
- ix) An examinee at the fourth semester examination, who fails to submit his Project Work within the prescribed date or fails to present himself for the Project Work may, subject to other provisions of this Direction shall be readmitted to the examination at any subsequent date provided:-



- a) He/ She pays the fee prescribed from time to time.
- b) His/her application is received by the Controller of Examinations not later than one month before the date of commencement of examination.
- x) The marks will be allotted in all examinations which will include college assessment marks and the total marks for each Theory / Practical shall be converted into Grades as per **Table No.3**.
- xi) SGPA shall be calculated based on Grade Points corresponding to percentage of marks as given in **Table No.3** and the Credits allotted to respective Theory / Practical shown in the scheme for respective semester.
- xii) SGPA shall be computed for every semester as per formula mentioned below

$$SGPA = \frac{C1 \times G1 + C2 \times G2 + \dots Cn \times Gn}{C1 + C2 + \dots + Cn}$$

Where:

C = Credit of individual Theory / Practical

G = Corresponding Grade Point obtained in the respective Theory /Practical.

n = Number of subject heads in a given semester

- xiii) The CGPA shall be calculated based on SGPA of I, II, III & IV Semester taken together as per formula mentioned below.

Where:

$$CGPA = \frac{\sum((SGPA)_j)}{\sum(Cr)_j}$$

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(SGPA)_j = SGPA of jth Semester
(Cr)_j = Total Credits for jth Semester
SGPA = Semester Grade Point Average
CGPA = Cumulative Grade Point Average

CGPA equal to 6.00 and above shall be considered as equivalent to First Class and CGPA equal to 7.5 and above shall be considered as equivalent to Distinction on Grade Card of IV Semester as a foot note. Equivalent percentage calculation will be based on the following formula:

$$\text{Equivalent \%} = \text{CGPA} \times 10$$

Table No. 3

THEORY			PRACTICAL		
Grade	Percentage of Marks	Grade Points	Grade	Percentage of Marks	Grade Points
O	90-100	10	O	90-100	10
A+	80 - < 90	9	A+	80 - < 90	9
A	70 - < 80	8	A	70 - < 80	8
B+	60 - < 70	7	B+	60 - < 70	7
B	55 - < 60	6	B	55 - < 60	6
P	50 - < 55	5	P	50 - < 55	5
F	Below 50	0	F	Below 50	0
AB	Absent in Examination	0	AB	Absent in Examination	0

xiv) As soon as possible, after the examination, the Board of Examinations shall publish a list of successful examinees and the degree shall be awarded based on CGPA thereon for **M.Arch./M.Des** students.

9. A.T.K.T. Rules:-

- Student will have no restriction to take admission to II Semester.
- For admission to Second year of M.Arch/M.Des, the student should have passed at least 50% of subject heads taking together I & II Semester.

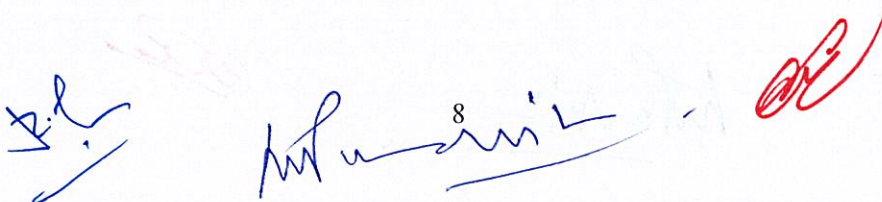


Table No. 4

Admission to Semester	Student should have appeared for the examination	Student should have passed in all the subjects of the following examination of R.T.M. Nagpur University	Student should have passed at least 50% of the papers of the following examinations
Semester-I	-----	As Provided in the Eligibility Criteria mentioned in Table-I	-----
Semester-II	Semester-I	-----	-----
Semester-III	Semester-II	-----	Semester-I & II taken together
Semester-IV	Semester-III	-----	-----

10. In the event of any question of interpretation or application of the provisions of This Direction arising the same shall be referred to the decision of the Vice-Chancellor whose decision in the matter shall be final and binding on all the concerned people.

Nagpur

Date: 12-9-23

(Dr. Subhash R. Chaudhari)
Vice-Chancellor

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
 Faculty of Engineering & Technology (Board of Studies - Architecture)
 Course and Examination Scheme of Master of Architecture
 Choice Base Credit System(CBCS)
 I Semester M. Arch. (Architecture Education)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Practical/Viva - Voce			
											Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S			University Assessment	College Assessment						
PGAE101T	Introduction to learning methods- I	3	-		3	3	70	30	100	50	-	-		
PGAE102T	Basics of Architecture Education	3	-		3	3	70	30	100	50	-	-	-	-
PGAE103T	Society and Architecture	3	-		3	3	70	30	100	50	-	-	-	-
PGAE104P	Elective -I (Discipline Specific)	1	-	3	4						50	50	100	50
PGAE105T	Elective -II (Open-Architecture)	4	-		4	3	70	30	100	50	-	-	-	-
PGAE106P	Paper Writing and Presentation	1		3	4	-	-	-	-	-	50	50	100	50
PGAE107P	Studio I-Design Processes-part-I	-		6	6	-	-	-	-	-	100	100	200	100
Total		15	0	12		-	280	120	400	-	200	200	400	-
Semester Total		27			27	800 Marks								

Elective 1- 1.Environmental Issues in Architecture Education. 2. Creativity in Architecture Education. 3. Appreciation & Criticism in Architecture

Note:- Open Electives are listed Separately

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology (Board of Studies - Architecture)
Course and Examination Scheme of Master of Architecture
Choice Base Credit System(CBCS)
II Semester M. Arch. (Architecture Education)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Practical/Viva - Voce			
											Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S	University Assessment	College Assessment	University Assessment	College Assessment						
PGAE201T	Introduction to learning methods- II	3	-		3	3	70	30	100	50	-	-	-	-
PGAE202T	History of Architecture Education	3	-		3	3	70	30	100	50	-	-	-	-
PGAE203T	Behaviour and Expression of Structures	3	-		3	3	70	30	100	50	-	-	-	-
PGAE204T	Elective -III (Discipline)	1	-	3	4						50	50	100	50
PGAE205T	Foundation Courses -I	4	-		4	3	70	30	100	50	-	-	-	-
PGAE206P	Visual Arts And CAD	1		3	4	-	-	-	-	-	50	50	100	50
PGAE207P	StudiolI-Design processes-Part-II	-		6	6	-	-	-	-	-	100	100	200	100
Total		15	0	12		-	280	120	400	-	200	200	400	
Semester Total		27			27	800 Marks								

Elective III- 1. Construction Principles & Methods. 2. Climate & Architecture 3. Advance Teaching Models & Aids , Foundation Course I- Research in architecture -part-I
Foundation Course to be conducted by a teacher having Ph.D Qualification

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology (Board of Studies - Architecture)
Course and Examination Scheme of Master of Architecture
Choice Base Credit System(CBCS)
III Semester M. Arch. (Architecture Education)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Theory				Practical/Viva - Voce			
							Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S	University Assessment	College Assessment	University Assessment	College Assessment						
PGAE301T	Elective -IV (Open-Architecture)	4	-		4	3	70	30	100	50	-	-	-	-
PGAE302T	Foundation Courses -II	4	-		4						50	50	100	50
PGAE303P	Social Relevance of Architecture Education	1		3	4						50	50	100	50
PGAE304P	Seminar	1	-	3	4	-	-	-	-	-	50	50	100	50
PGAE305P	Studio III- Design Methods/ Construction Methods- Innovative Approach			8	8						100	100	200	100
Total		10	-	14	24	-	70	30	100	-	250	250	500	-
Semester Total		24			24	600 Marks								
Foundation Course II- Research in architecture-part-II Foundation Courses to be conducted throughout the semester														

Foundation Course II- Research in architecture-part-II, Foundation Course to be conducted by a teacher having Ph.D Qualification



Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology (Board of Studies - Architecture)
Course and Examination Scheme of Master of Architecture
Choice Base Credit System(CBCS)
IV Semester M. Arch. (Architecture Education)

IV Semester M. Arch. (Architecture Education)														
Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Theory				Practical/Viva - Voce			
							Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S										
PGAE401P	Professional Training				2									
PGAE402P	Colloquim	1		3	4						50	-	50	25
PGAE403P	Dissertaion	2	-	10	12	-	-	-	-	-		50	50	25
Total		3	-	13		-	-	-	-	-	100	200	300	150
Semester Total		16			18		-	-	-	-	150	250	400	-
400 Marks														
The IV semester will start with Professional Experience (Placement) of duration 8 Weeks.														

The IV semester will start with Professional Experience (Placement) of duration 8 Weeks.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology (Board of Studies of Architecture)
Course and Examination Scheme of Master of Architecture
Choice Base Credit System(CBCS)

Annexure-II

I Semester M. Arch. (Environmental Architecture)

Semester M. Arch. (Environmental Architecture)														
Subject Code	Subject	Teaching Scheme			Examination Scheme									
					Theory						Practical/ Viva voce			
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S			University Assessment	College Assessment			University Assessment	College Assessment		
PGEA101T	Society and Environmental Economics	3	-		3	3	70	30	100	50	-	-	-	-
PGEA102T	Traditional Knowledge Systems	3	-		3	3	70	30	100	50	-	-	-	-
PGEA103T	Sustainable Building Technology and Management	3	-		3	3	70	30	100	50	-	-	-	-
PGEA104P	Elective –I (Discipline Specific)	1	-	3	4						50	50	100	50
PGOPEN105T	Elective –II (Open for Architecture)	4	-		4	3	70	30	100	50	-	-	-	-
PGEA106P	Environmental Architecture theory	1		3	4	-	-	-	-	-	50	50	100	50
PGEA107P	Sustainable design studio-I	-		6	6	-	-	-	-	-	100	100	200	100
Total		15	0	12		-	280	120	400	-	200	200	400	-
Semester Total		27			27	800 Marks								

Elective 1-1. Contemporary Practices in Sustainable Architecture

Elective 1-1. Contemporary Practices in Sustainable Architecture 2. Housing, Environmental Planning & Policies. 3. Ecological Planning.

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*Open Electives are offered Separately.

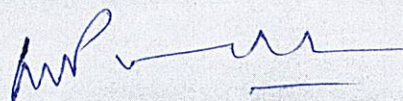
II Semester M. Arch. (Environmental Architecture)

Semester III. Arch. (Environmental Architecture)														
Subject Code	Subject	Teaching Scheme			Examination Scheme									
					Theory					Practical/Viva voce				
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S			University Assessment	College Assessment			University Assessment	College Assessment		
PGEA201T	Environmental Laws and Legislation	3	-	-	3	3	70	30	100	50	-	-	-	-
PGEA202T	Renewable Energy Systems and Technology	3	-	-	3	3	70	30	100	50	-	-	-	-
PGEA203T	Environmental Impact Assessment and mitigation	3	-	-	3	3	70	30	100	50	-	-	-	-
PGEA204P	Elective -III (Discipline)	1	-	3	4	-	-	-	-	-	50	50	100	50
PGFD205T	Foundation Courses -I	4	-	-	4	3	70	30	100	50	-	-	-	-
PGEA206P	Energy audits and codes	1	-	3	4	-	-	-	-	-	50	50	100	50
PGEA207P	Sustainable design studio-II	-	-	6	6	-	-	-	-	-	100	100	200	100
Total		15	0	12	-	-	280	120	400	-	200	200	400	-
Semester Total		27	-	-	27	800 Marks								

Elective III- 1. Conservation as a tool for sustainability 2. Restoration of Ecologically Disturbed Sites 3. Climate Responsive Design System.

Foundation Course I- *Research Methodology for Architecture and Design

* To be conducted by a Teacher Having Ph.D qualification.



III Semester M. Arch. (Environmental Architecture)

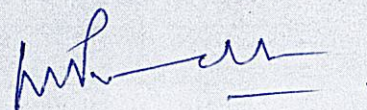
Semester IV: Arch. (Environmental Architecture)														
Subject Code	Subject	Teaching Scheme			Examination Scheme									
					Theory						Practical/Viva voce			
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
							University Assessment	College Assessment			University Assessment	College Assessment		
OPEN301T	Elective -IV (Open)	4	-	-	4	3	70	30	100	50	-	-	-	-
GF0302T	Foundation Courses -II	4	-	-	4	-	-	-	-	-	50	50	100	50
GEA303P	Software simulation tools for Energy Efficient Buildings	1	-	3	4	-	-	-	-	-	50	50	100	50
EA304P	Seminar	1	-	3	4	-	-	-	-	-	50	50	100	50
EA305P	Sustainable design studio- III	-	-	8	8	-	-	-	-	-	100	100	200	100
Total		10	-	14	24	-	140	60	200	-	150	250	400	-
Semester Total		24			24	600 Marks								
Foundation Course II: Architectural Design - Planning & Design														

Foundation Course II- Architectural Project Planning & Management

IV Semester M. Arch. (Environmental Architecture)

S. No.	Subject	Teaching Scheme			Examination Scheme										
					Theory					Practical/Viva voce					
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	
		L	P	S			University Assessment	College Assessment			University Assessment	College Assessment			
401P	Professional Training*				2							50	-	50	25
402P	Colloquim	1		3	4								50	50	25
403P	Dissertation	2	-	10	12	-	-	-	-	-	100	200	300	150	
Total		3	-	13		-	-	-	-	-	150	250	400	-	
Semester Total		16			18	400 Marks									

* semester will start with Professional Experience (Placement) of duration 8 Weeks.



Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Board of Studies - Architecture
Course and Examination Scheme of Master of Design
Choice Base Credit System (CBCS)

Annexure-III

I Semester M. Des. (Industrial Design)

Subject Code	Subject	Teaching Scheme		Examination Scheme										
				Theory						Practical/Viva Voce				
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
							University Assessment	College Assessment			University Assessment	College Assessment		
GID101T	History of Design	3	-		3	3	70	30	100	50	-	-	-	-
GID102T	Materials and Processes	3	-		3	3	70	30	100	50	-	-	-	-
GID103T	Craft, Creativity and Postmodernism	3	-		3	3	70	30	100	50	-	-	-	-
GID104P	Elective –I (Discipline Specific)	1	-	3	4						50	50	100	50
OPEN105T	Elective –II (Open)	4	-		4	3	70	30	100	50	-	-	-	-
GID106P	Studies in Form - I	1		3	4	-	-	-	-	-	50	50	100	50
GID107P	Design - I	-		6	6	-	-	-	-	-	100	100	200	100
Total		15	0	12		-	280	120	400	-	200	200	400	-
Semester Total		27			27	800 Marks								

Elective I -1. Elements of Design 2. Workshop Practice 3.Design and Technology
 Open electives are listed separately.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur Faculty of Engineering & Technology
Board of Studies - Architecture Course and Examination Scheme of Master of Design Choice Base Credit System(CBCS)II Semester M. Des.
(Industrial Design)

Department of Design Choice Base Credit System(CBCS)II Semester M. Des. (Industrial Design)														
Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Theory				Practical/Viva Voce			
							Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S										
PGID201T	Product Development	3	-		3	3	70	30	100	50	-	-	-	-
PGID202T	Product Planning and Marketing	3	-		3	3	70	30	100	50	-	-	-	-
PGID203T	Human Factor Design	3	-		3	3	70	30	100	50	-	-	-	-
PGID204P	Elective –III (Discipline)	1	-	3	4						-	-	-	-
PGFD205T	Foundation Course -I*	4	-		4	3	70	30	100	50	50	50	100	50
PGID206P	Studies in Form - II	1		3	4	-	-	-	-	-	-	-	-	-
PGID207P	Design - II	-		6	6	-	-	-	-	-	50	50	100	50
Total		15	0	12		-	280	120	400	-	100	100	200	100
Semester Total		27			27	800 Marks								
Elective III- 1.Presentation techniques 2. Web Design 3. Game Design														
*Foundation Course - I, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z														

Elective III- 1.Presentation techniques 2. Web Design 3. Game Design

*Foundation Course I- Research Methodology for Architecture and Design - To be conducted by teacher having PhD qualification.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Board of Studies - Architecture
Course and Examination Scheme of Master of Design
Choice Base Credit System (CBCS)

III Semester M. Des. (Industrial Design)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
						Theory					Practical/Viva Voce			
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks
		L	P	S			University Assessment	College Assessment			University Assessment	College Assessment		
OPEN301T	Elective – IV (Open)	4	-		4	3	70	30	100	50	-	-	-	-
GFD302T	Foundation Course -II	4	-		4	-	-	-	-	-	50	50	100	50
GID303P	CAD Modeling and Digital Design	1		3	4						50	50	100	50
GID304P	Seminar	1	-	3	4	-	-	-	-	-	50	50	100	50
GID305P	Design - III			8	8						100	100	200	100
Total		10	-	14	24	-	70	30	100	-	250	250	500	-
Semester Total		24			24	600 Marks								

Foundation Course II- Architectural Project Planning & Management

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Board of Studies - Architecture
Course and Examination Scheme of Master of Design
Choice Base Credit System(CBCS)

IV Semester M. Des. (Industrial Design)

Subject Code	Subject	Teaching Scheme			Examination Scheme										
					Theory					Practical/Viva Voce					
		Hours per week			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	Max. Marks	Max. Marks	Total Marks	Min. Passing Marks	
							University Assessment	College Assessment			University Assessment	College Assessment			
L	P	S													
PGID401P	Professional Training*				2							50	-	50	25
PGID402P	Colloquium	1		3	4								50	50	25
PGID403P	Dissertation	Student is expected to work in Industry on a live project			12	-	-	-	-	-	100	200	300	150	
Total		1	-	3		-	-	-	-	-	150	250	400	-	
Semester Total		4			18	400 Marks									

* The IV semester will start with Professional Experience of duration 8 Weeks.



Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Board of Studies - Architecture
Absorption Scheme of Master of Design
Choice Base Credit System (CBCS)

I Semester M. Des. (Industrial Design)

OLD PATTERN		CBCS SYSTEM	
SUBJECT CODE	NAME OF SUBJECT	SUBJECT CODE	NAME OF SUBJECT
1-D-1	Oreintation - I	PGID104P	Elective –I (Elements of Design/Workshop practices)
1-D-2	Oreintation - II	PGID204P	Elective –III (Presentation Techniques)
1-D-3	Design - I	PGID107P	Design - I
1-D-4	History of Design	PGID101T	History of Design
1-D-5	Studies in form - I	PGID106P	Studies in Form - I
1-D-6	Material and process	PGID102T	Materials and Processes

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Board of Studies - Architecture
Absorption Scheme of Master of Design
Choice Base Credit System (CBCS)

II Semester M. Des. (Industrial Design)

OLD PATTERN		CBCS SYSTEM	
SUBJECT CODE	NAME OF SUBJECT	SUBJECT CODE	NAME OF SUBJECT
2-D-1	Product development	PGID201T	Product Development
2-D-2	CAD - 3D Modeling	PGID303P	CAD Modeling and Digital Design
2-D-3	Design - II	PGID207P	Design - II
2-D-4	Human Factor Design	PGID203T	Human Factor Design
2-D-5	Studies in form - II	PGID206P	Studies in Form - II
2-D-6	Seminar	PGID304P	Seminar



Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Board of Studies - Architecture
Absorption Scheme of Master of Design
Choice Base Credit System (CBCS)

III Semester M. Des. (Industrial Design)

OLD PATTERN		CBCS SYSTEM	
SUBJECT CODE	NAME OF SUBJECT	SUBJECT CODE	NAME OF SUBJECT
3-D-1	Digital design	PGID303P	CAD Modeling and Digital Design
3-D-2	Product planning and marketing	PGID202T	Product Planning and Marketing
3-D-3	Design - III	PGID305P	Design - III
3-D-4	Elective	PGID304P	Seminar
3-D-5	Advanced Studies in form	PGID206P	Studies in Form - II
3-D-6	Training	PGID401P	Professional Training

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Board of Studies - Architecture
Absorption Scheme of Master of Design
Choice Base Credit System (CBCS)

IV Semester M. Des. (Industrial Design)

OLD PATTERN		CBCS SYSTEM	
SUBJECT CODE	NAME OF SUBJECT	SUBJECT CODE	NAME OF SUBJECT
4-D-1	Project	PGID403P	Dissertation
4-D-2	Design review	PGID402P	Colloquium



**Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for
M. Arch.(Urban Design)) Program in all subjects.**

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Science & Technology (Board of Studies of Architecture)

Course and Examination Scheme of Master of Architecture (. Urban Design)

Choice Base Credit System (CBCS)

I Semester M.Arch. (Urban Design)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per Week				Theory				Practical/Viva Voce				
						No. of Credits	Durati on of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks
		L	P	S			Univ. Assess ment	College Assess ment			Univ. Assess ment	College Assess ment		
UDC-01	Design Studio –I	-	-	12	12	-	-	-	-	-	100	150	250	125
UDC-02	History of Urbanity	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-03	Urban Design Methods and Techniques	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-04	Site and Urban Planning	2	-	1	3	3	70	30	100	50	-	-	-	-
UDE-01	Elective-I	1	2	-	3	-	-	-	-	-	-	100	100	50
Total		7	2	15	24		210	90	300	-	100	250	350	-
Semester Total	24					24	650 Marks							

Elective I : 1) Computer Aided Urban Design 2) Indian Urbanism

*Open elective are offered separately.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Science & Technology (Board of Studies of Architecture)
Course and Examination Scheme of Master of Architecture (Urban Design)
Choice Base Credit System (CBCS)
II Semester M.Arch. (Urban Design)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
						Theory					Practical/Viva Voce			
		Hours per Week			No.of Credits	Duration of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks	Min. Passing Marks
		L	P	S										
UDC-05	Design Studio II	-	-	12	12	-	-	-	-	-	100	150	250	125
UDC-06	Theory of Urban Form	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-07	Urban and Transport planning – Planning legislation and practices	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-08	*Foundati on Course - I	4	-	-	4	3	70	30	100	50	-	-	-	-
UDE -02	Elective – II – Swayam online courses	3	-	-	3	-	-	-	-	-	-	100	100	50
UDE -03	Elective - III	1	2	-	3	-	-	-	-	-	-	100	100	50
Total		12	2	14	28	-	210	90	300	-	100	350	450	
Semester Total		28			28	750 Marks								

Elective –III (Discipline) : **1) Advanced Computer Applications in Spatial Analysis**
2) Urban nature and City Design

* Foundation Course-I : **1) Research Methodology for Architecture and Design-** To be conducted by teacher having Ph.D qualification.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Science & Technology (Board of Studies of Architecture)
Course and Examination Scheme of Master of Architecture (Urban Design)
Choice Base Credit System (CBCS)
III Semester M.Arch. (Urban Design)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
						Theory					Practical/Viva Voce			
		Hours per Week			No. of Credits	Duration of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks	Min. Passing Marks
		L	P	S										
UDC-09	Design Studio III	-	-	12	12	-	-	-	-	-	100	150	250	125
UDC-10	Contemporary urban form	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-11	Urban Renewal and Conservation	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-12	Landscape Design & Sustainable Development and EIA	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC -13	*Foundati on courses - II	4	-	-	4	-	-	-	-	-	50	50	100	50
UDC-14	Housing and Real Estate Developm ents	2	-	1	3	3	70	30	100	50	-	-	-	-
Total		12	-	16	28	-	280	120	400	-	150	200	350	
Semester Total		28			28	750 Marks								

* Foundation Course -II PROJECT PLANNING, EVALUATION & MANAGEMENT

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Science & Technology (Board of Studies of Architecture)
Course and Examination Scheme of Master of Architecture (Urban Design)
Choice Base Credit System (CBCS)
IV Semester M.Arch. (Urban Design)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
						Theory					Practical/Viva Voce			
		Hours per Week			No. of Credits	Duration of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks	Min. Passing Marks
		L	P	S										
UDC-15	Design Thesis or Research Thesis	-	-	12	12	-	-	-	-	-	150	250	400	200
UDC-16	Future Urbanism	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-17	Urban Project and Systems Management	2	-	1	3	3	70	30	100	50	-	-	-	-
UDC-18	Training in Urban Design or Case Studies	2 Months			6	-	-	-	-	-	100	--	100	50
Total		4	-	14	24	-	140	60	200	-	250	250	500	--
Semester Total		18			24	700 Marks								



**Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M. Arch.
(Landscape Architecture) Program in all subjects.**

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Science & Technology (Board of Studies of Architecture)

Course and Examination Scheme of Master of Architecture (Landscape Architecture)

Choice Base Credit System (CBCS)

I Semester M.Arch. (Landscape Architecture)

Subject Code	Subject	Teaching Scheme				Examination Scheme									
						Theory						Practical/Viva Voce			
		Hours per Week			No. of Credits	Duration of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks	Min. Passing Marks	
		L	P	S											
LA101P	Landscape Design Studio-I	-	-	6	6	-	-	-	-	-	100	100	200	100	
LA102T	Landscape Constructions and Services-I	3	-	-	3	3	70	30	100	50	-	-	-	-	
LA103T	Theory of Landscape-I	3	-	-	3	3	70	30	100	50	-	-	-	-	
LA104P	Elective-I (Discipline)	1	-	3	4	-	-	-	-	-	50	50	100	50	
LA105T	Elective-II (Open for Architecture)	4	-	-	4	3	70	30	100	50	-	-	-	-	
LA106T	Plants and Design	3	-	-	3	3	70	30	100	50	-	-	-	-	
LA107P	Natural Sciences	1	-	3	4	4	-	-	-	-	50	50	100	50	
Total		15	0	12	27		280	120	400	-	200	200	400	-	
Semester Total	27				27	800 Marks									

Elective I (Discipline): 1) Landscape Architecture and Allied Art 2) Universal Design 3) Parametric Design in Landscape Architecture

Elective II (Open for Architecture): 1) Waste Management 2) Energy Conservation & Management
3) Computer Aided Facilities Planning

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Science & Technology (Board of Studies of Architecture)
Course and Examination Scheme of Master of Architecture (Landscape Architecture)
Choice Base Credit System (CBCS)

II Semester M. Arch. (Landscape Architecture)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
						Theory					Practical/Viva Voce			
		Hours per Week			No.of Credits	Duration of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks	Min. Passing Marks
		L	P	S										
LA201P	Landscape Design Studio-II	-	-	6	6	-	-	-	-	-	100	100	200	100
LA202T	Landscape Constructions and Services-II	3	-	-	3	3	70	30	100	50	-	-	-	-
LA203T	Theory of Landscape-II	3	-	-	3	3	70	30	100	50	-	-	-	-
LA204P	Elective-III (Discipline)	1	-	3	4	-	-	-	-	-	50	50	100	50
LA205T	Foundation Course-I	4	-	-	4	3	70	30	100	50	-	-	-	-
LA206T	Landscape Professional Practice-I	3	-	-	3	3	70	30	100	50	-	-	-	-
LA207P	Landscape Graphics	1	-	3	4	4	-	-	-	-	50	50	100	50
Total		15	-	12	27	-	280	120	400	-	200	200	400	
Semester Total		27			27	800 Marks								

Elective –III (Discipline) : 1) Ecosystem Analysis 2) Degraded and Disturbed Landscapes
3) Sustainable Landscape Practices

* Foundation Course : 1) Research Methodology for Architecture and Design- To be conducted by teacher having Ph.D qualification.

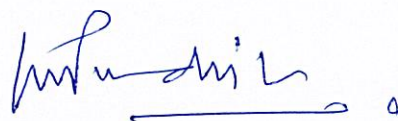
Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Science & Technology (Board of Studies of Architecture)
Course and Examination Scheme of Master of Architecture (Landscape Architecture)
Choice Base Credit System (CBCS)

III Semester M. Arch. (Landscape Architecture)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
						Theory					Practical/Viva Voce			
		Hours per Week			No. of Credits	Duration of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks	Min. Passing Marks
		L	P	S										
LA301P	Landscape Design Studio-III	-	-	8	8	-	-	-	-	-	100	100	200	100
LA302P	Landscape Management	1	-	3	4		--	--	-	-	50	50	100	50
LA303T	Elective – IV (Open)	4	-	-	4	3	70	30	100	50	-	-	-	-
LA304T	Foundation Course-II	4	-	-	4	-	-	-	-	-	50	50	100	50
LA305P	Seminar	1	-	3	4	-	-	-	-	-	50	50	100	50
Total		10	-	14	24	-	70	30	100	-	250	250	500	--
Semester Total		24			24	600 Marks								

Elective- IV (Open) : 1) Green Building 2) Man, Environment and Sustainability 3) Advances on Renewable Energy Technology

Foundation Course II: Architectural Project Planning & Management



Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Science & Technology (Board of Studies of Architecture)
Course and Examination Scheme of Master of Architecture (Landscape Architecture)
Choice Base Credit System (CBCS)

IV Semester M. Arch. (Landscape Architecture)

Subject Code	Subject	Teaching Scheme			Examination Scheme									
					Theory					Practical/Viva Voce				
		Hours per Week			No. of Credits	Duration of paper (Hrs.)	Max Marks	Max Marks	Total Marks	Min Passing Marks	Max Marks	Max Marks	Total Marks	Min. Passing Marks
		L	P	S										
LA401P	Professional Training*	-	-	-	2	-	-	-	-	-	50	-	50	25
LA402P	Colloquium	1	-	3	4	-	--	--	-	-	-	50	50	25
LA403T	Dissertation	Student is expected to work in Industry on a live project			12	-	-	-	-	-	100	200	300	150
Total		1	-	3	-	-	-	-	-	-	150	250	400	--
Semester Total		4			18	400 Marks								

*The Fourth Semester will start with Professional Experience of duration 8 weeks.