



NU/AC/AC-300621/8(A)/21-81
Date: 24.09.2021

NOTIFICATION

- Read: 1. R-44 – Empowering the Academic Council to approve Teaching & Examination Scheme, Syllabi, etc published vide notification No. NU-442 dated 27.01.2004
2. Notification No. NU-23 dated 24.07.2020 – Revision in TES and Syllabi of Semester-III of B.Arch. programme
3. Resolution No. 3(A) – Faculty of Architecture & Planning meeting – 09.04.2021
4. Resolution No. 8(A) – Academic Council meeting – 30.06.2021

Sub: Revision in the Teaching & Examination Scheme and Syllabi of Semester-III and V of B.Arch. programme in suppression of existing curricula

It is hereby notified for information of all concerned that the Academic Council in its meeting held on 30.06.2021 under resolution No. 8(A) in exercise of powers conferred upon it by the Board of Governors under regulation mentioned at serial 1 above and taking into consideration the recommendations of the Faculty of Architecture & Planning, has resolved to approve the revision in the Teaching & Examination Scheme and Syllabi of Semester-III and V of B.Arch. programme by way of replacing with new courses and revision in the existing courses in pursuance to the draft guidelines of Council of Architecture in supersession of existing curricula, to be made effective for the students registered in Semester-III and V in academic year 2021-22 onwards as per **Appendix-A** attached herewith.

Executive Registrar

Encl.: Appendix-A [Pages: 1 to 91]

To,

1. Dean, Faculty of Architecture & Planning
2. Academic Coordinator
3. Dy. Registrar: Exam; IAP

Copy to,

1. Exam Sec.
2. OS
3. Library
4. P.A. to ER

c.f.w.es to: Director General

Institute:	Institute of Architecture and Planning
Name of Programme:	Bachelor of Architecture
Year of introduction:	2021

INSTITUTE OF ARCHITECTURE and PLANNING NIRMA UNIVERSITY									
TEACHING AND EXAMINATION SCHEME FOR SEMESTER III - 2021 onwards									
Name of the Programme: Bachelor of Architecture									
SEMESTER III									
Course Code	Name of the Course	Teaching Scheme				Scheme of Examination			
		Hours/Week			Credit	Hours	Component Weightage		
		L	W	S	C	SEE	SEE	CE	LPW
CORE COURSES									
2AR381	Architectural Design Studio - III	-	-	12	12	-	-	0.5	0.5
2AR382	History & Theory -III	2	-	-	2	3	0.3	0.5	0.2
2AR383	Building Construction & Technology - III	2	2	-	4	3	0.3	0.5	0.2
2AR384	Architectural Graphics Skills & Representation- III	1	2	-	3	-	-	0.5	0.5
2AR385	Structure - III	1	2	-	3	3	0.3	0.5	0.2
2AR386	Environmental Science & Services - I	1	1	-	2	3	0.3	0.5	0.2
2AR387	Introduction to Ecology and Landscape	2	1	-	3	-	-	0.5	0.5
2AR388#	Related Study Programme - II#	-	-	-	3#	-	-	-	1
Total		9	8	12	29/ 32#				
#4 RSP is to be completed during the entire duration of B.Arch programme out of which 2 RSP is to be completed before registration in Semester VII and remaining 2 RSP up to Semester X.									
ELECTIVE COURSES									
Course Code	Course Name	L	T	P	C	SEE	SEE	CE	LPW
Yet to be decided	University Elective	3	-	-	3	-	0.4	0.6	-
S Credit of RSP will be given to those students who registers for RSP in the respective semester									
SUPPLEMENTARY COURSES/ VALUE ADDED COURSES									
Course Code	Course Name	L	W	S	C	SEE	SEE	CE	LPW
2ARS301	Social Work	-	2	-	-	-	-	-	1
2ARS302	Photography	-	2	-	-	-	-	-	1
L: Lecture T: Tutorial P: Practical W: Workshop S: Studio C: Credit CE: Continuous Evaluation, LPW: Lab/Project/Studio Work, SEE: Semester End Examination									
University Elective Courses:									

NIRMA UNIVERSITY

Institute:	Institute of Architecture and Planning		
Name of Programme:	Bachelor of Architecture		
Course Code:	2AR387		
Course Title:	Introduction to Ecology and Landscape		
Course Type:	<input checked="" type="checkbox"/> Core	<input type="checkbox"/> Institute Elective	
	<input type="checkbox"/> Value Added Course	<input type="checkbox"/> University Elective	
Year of introduction:	2021		

Credit Scheme

L	T	Practical component				C
		LPW	PW	W	S	
2	-	-	-	1	-	3

Course Learning Outcomes (CLO):

At the end of the course, students will be able to:

- Develop an understanding of basic concepts of landscape systems
- Understand ecological issues pertaining to human settlements and design interventions
- Learn about major ideas of natural selection, ecology, community, biodiversity, climate change and sustainability

Syllabus: 15 weeks (3 hours/week)

Total Teaching hours: 45 Hrs

Unit	Syllabus	Teaching hours
Unit-I	Introduction to Ecology – <ul style="list-style-type: none"> • Discussion and discourse on assessing the Value of Ecosystem and Ecosystem Services 	6 Hours
Unit-II	Interaction in Ecological community – <ul style="list-style-type: none"> • Time problem – Based on population and prediction of change over time – assess the prediction based on based on their ecological logic and feasibility. 	6 Hours
Unit-III	Ecological cycle – <ul style="list-style-type: none"> • Inter-relationships between ecological cycles • Discuss how ecological flows are inter-related and compare and contrast different ways of representing information on a concept map. 	9 Hours
Unit-IV	Impact of Architectural Design on sustainability – <ul style="list-style-type: none"> • Exploring Building Life Cycle Assessment through digital and physical models 	6 Hours

Unit-V	Introduction to Landscape –	9 hours
	<ul style="list-style-type: none"> • Definitions of Landscape terminologies • Elements of Landscape: Natural / Manmade. (Lightening, Paving, Fencing & Edging, Stones, Wood, Plants, water, Landform, Timber, Metal, Glass). 	
Unit-VI	Understanding the Site, Role of Vegetation & Planting –	9 hours
	<ul style="list-style-type: none"> • Introduction to site features, topography / Land Forms, Wind flow, Air quality, Hydrology, climate and vegetation • Understanding TREE Architecture / FORM- Identification, botanical, common name, type, native- exotic, Span, height, girth, Life, Purpose, Flowering & fruiting season/ colour, etc., climatic consideration 	

Self Study:

Suggested List of Experiments:

Suggested Case List:

- Suggested Readings/ References:
1. Samuelson P, Nordhaus W, *Economics*, McGraw Hill Education (India) Pvt.Ltd., New Delhi, 2010
 2. Samuelson P, Nordhaus, *MicroEconomics*, McGraw Hill Education (India) Pvt.Ltd., New Delhi, 2013
 3. Deodhar S, *Day to Day Economics*, Random House India, Gurgaon, 2012
 4. Mankiw, N. G. *Principles of Economics* (Sixth ed.). Cengage Learning. 2012.
 5. Musgrave and Musgrave *Public Finance in Theory and Practice* McGraw Hill Education (India) Pvt.Ltd., New Delhi. 2004.