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-80 dated 21.09.2021 - Revision in Teaching & Examination Scheme and Syllabi of Semester-I and II of B.Arch. programme in suppression of existing curricula**
3. **Resolution No. 3(i)(b) – Faculty of Architecture & Planning meeting – 27.10.2021**
4. **Resolution No. 8(B) – Academic Council meeting – 30.11.2021**
5. **Approval of Director General on note-dated 23.12.2021**

Sub: **Introduction of Institute Elective courses along with Syllabi to be offered in Semester-V and VI and addition in existing pool of Electives**

It is hereby notified for information of all concerned that the Academic Council in its meeting held on 30.11.2021 under resolution No. 8(B) in exercise of powers referred at serial 1 above and taking into consideration the recommendations of the Faculty of Architecture & Planning, has resolved to approve the introduction of following **Institute Elective** courses along with Syllabi and addition of the same in the existing pool of electives, to be offered to the students registered in Semester-V and VI of **B.Arch.** programme from academic year 2021-22 onwards:

i. Prefabrication
ii. Geometry in Architecture
iii. People and Cities
iv. Field Study of Plants
v. Green Infrastructure
vi. Urban Agriculture & Architecture
vii. Architectural Acoustic Design
viii. Vernacular Building Practices
xi. Advanced Surveying
x. Building Energy Analysis
xi. Edible to Productive Landscapes
xii. Colour Workshop

It is further notified that the Director General was authorized to approve the revised document incorporating the suggestions made by the Academic Council and the final document as approved by the Director General is attached herewith as *Appendix-A*.

Executive Registrar

Encl.: Appendix-A [Pages 1 to 26]

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To,
1. Dean, Faculty of Architecture & Planning
2. Academic Coordinator
3. Dy. Registrar (Exam)

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

c.f.w.cs to: Director General

NIRMA UNIVERSITY

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

Institute Elective Courses for Semester-5 and Semester-6:

New Institute Elective courses (Semester-V and VI):	
2AREA29*	Prefabrication
2AREA30*	Geometry In Architecture
2AREA31*	People and Cities
2AREA32*	Field Study of Plants
2AREA33*	Green Infrastructure
2AREA34*	Urban Agriculture & Architecture
2AREA35*	Architectural Acoustic Design
2AREA36*	Vernacular building practices
2AREA37*	Advanced Surveying
2AREA38*	Building energy analysis
2AREA39*	Edible to Productive Landscapes
2AREA40*	Color Workshop

Existing Institute Elective Courses

2AREA01	Leather craft
2AREA02	Pottery
2AREA03	Claywork/ Terracotta/ Ceramic
2AREA04	Furniture design
2AREA05	Performing Arts
2AREA06	Graphic Signage
2AREA07	Collages and Montages
2AREA08	Metal craft
2AREA09	Casting/ Moulding (Pop, Metal, resin, fiber)
2AREA10	Print (Lithography/ Linography/ Woodcut/ Metal print)
2AREA11	Colour in Architecture

NIRMA UNIVERSITY
INSTITUTE OF ARCHITECTURE AND PLANNING

TEACHING AND EXAMINATION SCHEME FOR SEMESTER V - B.ARCH.
(2021 onwards)
Name of the Programme: Bachelor of Architecture
SEMESTER V

Course Code	Name of the Course	Teaching Scheme				Hours	Scheme of Examination		
		Hours/ Week			Credit		Component Weightage		
		L	W	S	C	SEE	SEE	CE	LPW
CORE COURSES									
2AR561	Architectural Design Studio - V	-	-	12	12	-	-	0.5	0.5
2AR562	History & Theory - V	2	-	-	2	3	0.3	0.5	0.2
2AR563	Building Construction & Technology - V	2	2	-	4	3	0.3	0.5	0.2
2AR564	Landscape Design	2	-	-	2	-	-	0.5	0.5
2AR565	Environmental Science & Services - III	1	2	-	3	3	0.3	0.5	0.2
2AR566	Digital Technology in Architecture-I	1	2	-	3	-	-	0.5	0.5
2AR567#	Related Study Programme - IV#	-	-	-	4#	-	-	-	1
#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.									
Institute Elective courses as per Annexure-1									
	Elective	1	1	-	2	-	-	0.5	0.5
	Elective	1	1	-	2	-	-	0.5	0.5
	Total	10	8	12	30/ 34S				

S Credit of RSP will be given to those students who registers for RSP in the respective semester

L: Lecture, W: Workshop, S: Studio, C: Credit

CE: Continuous Evaluation, LPW: Lab/Project/Studio Work, SEE: Semester End Examination

NIRMA UNIVERSITY
INSTITUTE OF ARCHITECTURE and PLANNING

TEACHING AND EXAMINATION SCHEME FOR SEMESTER V - B.ARCH.
Name of the Programme: Bachelor of Architecture
SEMESTER VI

Course Code	Name of the Course	Teaching Scheme				Hours	Scheme of Examination		
		Hours/ Week			Credit		Component Weightage		
		L	W	S	C	SEE	SEE	CE	LPW
CORE COURSES									
2AR661	Architectural Design Studio - VI	-	-	12	12	-	-	0.5	0.5
2AR662	History & Theory - VI	2	-	-	2	3	0.3	0.5	0.2
2AR663	Building Construction & Services	2	2	-	4	3	0.3	0.5	0.2
2AR664	Environmental Design and GIS Application	-	2	-	2	-	-	0.5	0.5
2AR665	Development Control Regulation	1	2	-	3	3	0.3	0.5	0.2
2AR666#	Related Study Programme – V #	-	-	-	4#	-	-	-	1
2AR667#	Field Studio#	-	-	-	5#	-	-	-	1
Institute Elective courses as per Annexure-1									
Yet to be decided	Elective	1	1	-	2	-	-	0.5	0.5
Yet to be decided	Elective	1	1	-	2	-	-	0.5	0.5
SUPPLEMENTARY COURSES/ VALUE ADDED COURSES									
Yet to be decided	Value Added Courses*	-	2	-	-	-	-	-	1
	Total	7	10	12	27/ 31$/ 33$				

Students can register either for 2AR667 (Related Study Programme – IV) or 2AR668 (Field Studio) in this semester, as per the following condition –
  - 3 RSP and 1 Field Studio is to be completed during the entire duration of B.Arch programme out of which 2 RSP is to be completed upto Semester VII and remaining 1 RSP up to Semester X. And 1 Field Studio needs to be completed between Semester-V to X

$ Credit of RSP or Field Studio will be given to students based on their registration in the respective semester
* Value Added courses offered in respective semester as offered by the Dean, FoAP,IAP,NU (As per attached Annexure-C)

Institute Elective courses as per Annexure-A

L: Lecture,   W: Workshop,   S: Studio,   C: Credit
CE: Continuous Evaluation,   LPW: Lab/Project/Studio Work,   SEE: Semester End Examination

NIRMA UNIVERSITY

Institute:	Institute of Architecture and Planning
Name of Programme:	Bachelor of Architecture
Course Code:	2AREA34
Course Title:	Urban Agriculture & Architecture
Course Type:	Institute Elective
Year of introduction:	2021

Credit Scheme

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

Course Learning Outcomes (CLO):

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

- To explore the need for urban agriculture.
- Learn through best practices incorporating urban agriculture into the design of buildings and layout.
- Apply the learning and principles in design of habitat incorporating urban agriculture.

Syllabus: 15 weeks (2 hours/week)   **Total Teaching hours: 30 Hrs**

Unit	Syllabus	Teaching hours
Unit-I	Introduction to Urban Agriculture. • building understanding on urban food systems and supply chain. • Importance & key challenges to sustainable food production; examination and need for indoor agriculture along with the cutting-edge precision agricultural technologies associated. • Learn through best practices in cities / Global examples / FAO (Food and Agricultural Organization), etc. • Review the key challenges unique to urban indoor farming such as diseases, pests, abiotic stresses.	8 hours
Unit-II	Understand the Framework and link it to Architectural education. • significance of integration at different levels of Architectural practice in building, vacant plots and UPA (urban and peri-urban agriculture. • Review the critical aspects of urban agriculture, including site selection, design, soil management,	14 hours

variety selection, pest management, accessing and developing markets for urban agricultural products and/or urban agri-tourism.

- Investigate and analyze a diversity of urban agricultural systems that vary in location, scale, cropping and non-crop systems, production methods, and market opportunities, including edible and ornamental crops, non-crop urban landscapes and public/private gardens, residential and community scale agriculture, non-profit and commercial urban farms.

Unit-III	Learn it from market experts and local industry.	8 hours
	• Apply the learnings and principles in designing the habitat.	

Suggested Readings/ References:

1. Second Nature Urban Agriculture: Designing Productive Cities Ed by André Viljoen and Katrin Bohn
2. Creating Urban Agricultural Systems: An Integrated Approach To Design Gundula, Proksch
3. Carrot City: Creating Places For Urban Agriculture by Mark Gorgolewski, June Komisar and Joe Nasr
4. Designing Urban Agriculture: A Complete Guide to the Planning, Design, Construction, Maintenance and Management of Edible Landscapes Hardcover by April Philips.
5. Urban Agriculture by Aubry, Christine, Duchemin, Éric, Nasr, Joe.
6. Creating Urban Agricultural Systems An Integrated Approach to Design By Gundula Proksch.
7. Sustainable Urban Agriculture and Food Planning by Rob Roggema.