

Vivekanand Institute of Technology's

Padmabhushan Dr. Vasantdada Patil College of Architecture, Pune

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PVP CoA, PUNE Self Study Report (SSR): 2022-2023 **Criterion 2: Teaching Learning and Evaluation**

Key Indicator: 2.6 Student Performance and Learning Outcome

BACHELOR IN ARCHITECTURE

Program Outcomes

As defined by University:

- Knowledge Understanding about the role of various knowledge domains such as humanities, technology, and environment in design of
- Principles & Theory Knowledge of principles of architecture & theoretical knowledge and its application in design.
- Creativity Creative and design thinking ability.
- Practice Ability to understand the real life situation of Architectural Practice and to work with ethical and professional responsibilities.
- Collaborative Working Ability to communicate effectively and work in interdisciplinary groups.
- Inclusivity Sensitivity in design for inclusivity, equity, environment, diverse cultures, and heritage.
- Technological Knowhow Ability to review, comprehend and report technological developments in the profession of architecture and
- Ability to choose Area of Specialisation or Practise Able to judge one's area of interest and accordingly choose the field of practice.

Course Outcomes

Sr. No	Subjects	Credits	CO Nos.	Course Outcomes
				ear B. Arch. (2019 pattern)
			CO 1	
			CO 2	Understanding basic elements of design
1	Basic Design	10	CO 3	Gain the ability to adopt the principles in design
		10	CO 4	Understanding form analysis and geometry
			CO 5	To analyse and decode the object wrt to the lifecycle of the object
	No.		CO 6	To grasp the multi-sensory aspects & explore experiential aspects of seasons
			CO 1	To develop a basic understanding of the relationship of materials to construction systems.
			CO 2	Understanding eco friendly and sustainable materials and its Jointing techniques
	AREPS MANAGES TO		100000000000000000000000000000000000000	To develop understanding of techniques and methodology with specific
2	Building Construction and Materials I	7	CO 3	reference to load bearing construction
			CO 4	Understanding varied construction materials and their techniques.
		1 1		Understand implication of construction techniques, materials, elements with
			CO 5	respect to climate analysis at site level.
			CO 6	Understand basic structural systems in construction of building.
				To develop understanding of building/structure as a system of forces and
			CO 1	transfer of forces/load
		1 1		from roof to foundation and soil.
3	Theory of Structures	2 -	CO 2	To develop understanding of various loads acting on a structure
0.000			15021007	To develop understanding of behaviour of elements like walls, beams and
			CO 3	columns subjected to tension, compression, shear and bending.
			-	To develop the understanding of load tranfer & Practical Application of a
			CO 4	support system
		3 -	CO 1	To develop control over their hand and understand characteristics of each grade
1			COI	of graphite pencils while drawing lines
			CO 2	To enable students visualize 3-dimensional objects and represent them in two
4	Architectural Graphics and Drawing I		CO 2	dimensional drawing
			CO 3	Understanding basic principles of free hand sketching and developing hand and
			003	leye coordination through live sketching exercies
			CO 4	Students should be able to communicate various ideas through Architectural
			CO 4	Graphic representations including building plans and sections (drafting and
				An understanding of architecture, including settlements, landscapes and
		8	CO 1	buildings as a cultural product shaped by various factors from ancient
				civilizations to Hindu architecture
5	History of Architecture and Culture I	2	CO 2	An understanding of the formal, structural, and stylistic aspects of architectural
	, , , , , , , , , , , , , , , , , , ,	_	COZ	development in the chosen period
			CO 3	Analysis of place, form, materials from socio-cultural and architectural
			CO 4	Introduce students in the process of doing systematic research in
-				documentation exercise of structures and to dehate on the formation of those
- 1				The student should be able to communicate fluently in the English language and
			CO 1	also use tools of communication such as written and graphical for every tive
				communication.
6	communication Skills	2	CO 2	Understanding importance and need for the Compression skill development
			CO 3	Understand various modes of communication states written, verbal and
			CO 3	graphical communication

_			CO	descipling and forms of willing in architectural descipling
			co	
-	W		CO.	Product Product
7 Works	Workshop I	2	CO	2 Understanding different types of materials and its uses in model making
l.		1	COE	Understanding tools used for cutting, joining in the process of model making
			CO 4	Visualising and executing 2 dimensional to 3 dimensional shapes and forms
			COI	Understanding Anthronometry and assess will all the standards and forms
1			COZ	- The space utilization as per firtion
			CO3	and removed the state of the st
8 Archite	18		CO 4	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Archite	ectural Design I	10	- 004	
			CO 5	Understand the role of art, socio-culture and geographical factors of the exist
				Isettlements.
			CO 6	Understand implementation of architectural elements with respect to climatic
			11, 12,026-06-1909	conditions.
1			CO 1	To expand knowledge about earthquakes and earthquake resistant structures
		4	-	load bearing structures
1			CO 2	The state of the s
9 Buildin		West C	CO 3	Understanding fundamentals of health
Bullain	g Construction and Materials II	7	003	doors and windows wrt timber construction
1			CO 4	Illuderstand the important assesses
			CO 4	architecture.
	(90)		22/6/202	To analyse and so relate with the
			CO 5	technologies using timber and timber components with construction
				technologies, using timber and timber derivatives
	Theory of Structures II	1	CO 1	To develop understanding of effect of various forces in terms of various stress and deflection
		2	COI	The deficetion
0 Theory				for various structural members like beams and columns.
			CO 2	To develop understanding of truss as lattice construction and structural action
			20007.00	in its members.
1			CO 3	To develop understanding of Load transfer in Load Bearing Structures.
			CO 4	To develop understanding of Load transfer in Framed Structures
1	Architectural Graphics and Drawing II		CO 1	To comprehend and express composite solid geometry through sketches and
			CO 1	drawings leading to comprehension of building components
			60.7	To represent set of solids or building components effectively in 3D using the
1 Architec		3	CO 2	techniques of perspective drawing and sciography
		1840	CO 3	To explore different techniques of creating effective presentation drawings
				To communicate various ideas through Architectural Graphic representations
			CO 4	including huilding plans and sections (1.6):
	December 1	W		including building plans and sections (drafting and sketching). An understanding of architecture, including settlements, landscapes and
		2	CO 1	huildings as a cultural mediate, including settlements, landscapes and
1		1 3	001	buildings as a cultural product shaped by various factors with a focus on Islamic
5 100	Was a warm of			architecure and post Mughal architecture
2 History	of Architecture and Culture II	2	CO 2	An understanding of the formal, structural, and stylistic aspects of architectural
1			60.2	development in the chosen period
			CO 3	Analysis of place, form, materials from socio-cultural and architectural
			CO 4	Introduce students in the process of doing systematic research in
			151858/11/	documentation exercise of structures and to debate on the formation of those
			Caucano na	Introduce students to the profession of Architecture and its distinguishing
			CO 1	characteristics
	29			with respect to other professions and disciplines
Fundame	T-1 - F A - 7 - 1		CO 2	Equip students to understand concept of Shelter and introduction to various
rundame	entals of Architecture	2	CO 2	building typologies and their design concerns
			CO 3	Equip students to understand fundamentals of architecture -function , culture
			CU 3	and environment and their integration into the architectural form
				Equip students to understand factors affecting architectural design- site, contex
ALC: THE RESERVE			CO 4	, circulation, structural system, materials and aesthetics.
			CO 1	Getting hands on experience in handling and aesthetics.
Worksho	- 95	2	CO 2	Getting hands on experience in handling material using balsa wood as model
Worksho	ih ii	2	CO 3	To be able demonstrate sufficient skills in making architectural models.
		-	CO 4	Understanding basic commands of 3D model making softwares in architecture
			CU 4	Exploring the 2D to 3D technique of form evolution using Sketchup as a tool
			CO 1	To understand history of evolution of Democracy, structure of Indian
		_	G183576	Constitution through lectures and comprehending the same through lecture
			- 1	To understand the process of Amendments to the Constitution with specific
Dec	1		CO 2	cases (73rd and 74th amendments) and their effects through lectures and
DEG	1	2		
1			COS	To understand the process of elections and formation of legislative bedieses
	1		CO 3	through lecture, discussions and comprehending the same through lecture pare
		1		To understand process of governance and develop failty to identify the
i i			CO 4	institutions of governance through lecture, discussions and comprehending the
				mountains of sovernance through lecture discussions and comprohessing A.

		-	Second	Year B. Arch. (2019 pattern)
			co	To understand the aspects and complexity in the Design of a Dwelling and its
			-	leffect on the lifestyle and people and understand what makes it personal for the
			CO 2	to document, analyse the site and derive hints for the formulation of a relevant
1	Architectural D	1	St	design approach
1	Architectural Design II	10	CO 3	To be able to decode the brief, programme and derive a relevant Design
			CO 4	approach by studying the site, socio-cultual aspects and climatology To study and understand anthropometry and proportions
				To choose an appropriate and the second seco
		8	CO 5	to derive a character for the built mass.
			CO 6	To develop Communication skills via 2D Drawings, 3D models
			CO 1	Learning Soil Mechanics and types of foundation in various soil types
	1		CO 2	Illinderctanding congrete as a seed of the
		3	CO 2	Jand also study of the ingredients of concrete
	4			To understand RCC frame structure for smaller spans generally applicable to
		à	CO 3	residential structures, along with earthquake resistant features, reference of a
	1	1	150000150	RCC drawing R.C.C structural details up to plinth viz. footings, external and
2	Building Construction and Materials III	7		Internal plinth hears, with plinth formation with death to the state of the state o
	Section (Section Control Section Control Secti			To understand construction of columns, beams for various types of end
			CO 4	conditions R.C.C floor slab details, viz. one-way, two-way slabs with different
		1		lend conditions, column beam-slabiunction with details for toilet block, also live to
			60.5	To Study of Holl-timber windows with materials like Steel-framed, aluminum
			CO 5	er read then
			60.5	construction details
			CO 6	The state of the s
			CO 1	The standing of the concepts of Fixity, Continuity and Torque
3	Theory of Structure III	2	CO 2	The same of the sa
			CO 3	The Skills to Design Small Spanned R.C.C Structure w.r.t Slabs, Beams and
			CO 4	Columns and use it for his B.C.M and W.D. subjects
	W.		CO 1	To understand wood and concrete as a material and as a structural material. To be able to communicate using non-verbal forms of communication
			5r(00-290-14)	To express and communicate the characteristics od a Space through sketching
	Computer Aided Drawing and Graphics	2	CO 2	and color medium.
4			20.5	to communicate various ideas through architectural graphic representations
			CO 3	(drafting and sketching).
				To understand AutoCad as a 2D drafting computer aided tool to prepare,
			CO 4	compose & plot Architectural drawings, graphics & information. Exploring the
- 12				overall AutoCad interface & learning various commands required in making a 2D
			CO 1	To understand the development of European architecture through the historical
				period till 17th century AD.
5	History of Architecture and Culture III		CO 2	To understand the relationship of religion and society with architecture
,	Instally of Architecture and Culture III	2	CO 3	To understand the drivers of change, revival, and evolution of architecture
				To use drawing analysis as a tool for application of above learning and
			CO 4	continuation of research process through documentation of structures - such as
				churches or any other relevant site
			CO 1	To understand principles and techniques of water supply, requrement storage
			k	and distribution.
6	Building Services I	3	CO 2	Understand the various types of taps, valves, faucets, Pipes and their networking system and their installation applications.
		3	1000,000,000	To understand Systems of hot water supply using conventional and non-
			CO 3	conventional energy sources.
	0		CO 4	Study of drainage and sewage system and their working application.
			CO 1	To understand climate as a determinant of architectural design and to enable
			COT	the students to evolve climate responsive design.
			CO 2	To understand the design of various building elements / spaces as a response to
7	Climatology	2		the climatic condition of the region / site
	1000			To understand and apply passive design strategies at various scales using the
- 1			CO 3	various tools like sun path, bioclimatic chart, site analysis matrix etc that are
		1		used to study sun movement, wind and comfort in buildings
			CO 4	Students should be able to make communicative drawings to explain the idea
			CO 1	To understand principles of Cluster or campus design for a project whose built
		-	60.0	up area is in the range of 1,000sq.m.
		-	CO 2	To prepare a site layout which provides good circulation, natural right/and
	700		CO 3	10 develop an appropriate response to climate and Can device and
3	Architectural Design III	10	CO 4	massing scheme for the building
		-	CO 4	To understand inter-relationships between multi-functional building
			CO 5	To use appropriate building materials, technology to derive a relevant character
- 1		L		for the built masses.
				1 2 / 03
				Mana

1	Ī	1		To be able to use 2D drawing a second
			CO 6	To be able to use 2D drawings and 3D model to communicate the ethos/ spirit of the design
				To study types of special concretes, lightweight concrete, ready-mixed concret
		1	CO 1	lincluding for recoment etc. etc.de. = fite : #
	*		1 001	materials on site,
				understanding good quality material and field & lab tests involved
	1		CO 2	
			CO 2	proofing different methods or treatments of damp R water and fine
	4			to understand R.C.C structural details for balcony slabs, canonies and
9	Building Construction and Materials IV	7	CO 3	construction of various types of precast and in-situ RCC stairs, along with
		1 2000		learthquake resistant features, reference of a RCC drawing
				Study of elevators, escalators, conveyors – types, size, capacity, speed and
		All	CO 4	Mechanical safety
			-	methods, provisions in civil work for installation of elevators and escalators
			CO 5	Study of Various types of sliding and folding doors and Construction of Bay
				Study Glass and Plastic as Building material, its types, uses and application in
	4		CO 6	building industry. Study Different types of adhesives and sealants used in
-8425			-	building construction
			CO 1	The understanding of supporting Balconies and Staircases
10	Theory of Structures IV	2	CO 2	The Understanding of Dividing Larger Rooms in Smaller One Way or Two Way
	, , , , , , , , , , , , , , , , , , , ,	2	00.2	Slab Units
		1	CO 3	The state of steel as a Material and Various Steel Sections and their
			CO 4	The understanding of using Steel Girders and Stanchions
		1	CO 1	To enable students to grasp the interdisciplinary nature of environment science
			-	and its interdependence on development and society.
	- 700 A 100 M 100 A 200 A 200 A 100 A		CO 2	To encourage students to think holistically about environment when taking
11	Environmental Science	2		architectural design decisions
			CO 3	To generate awareness in students regarding various environmental impacts and
				issues created by the construction industry in order to enable them to device
			CO 4	creative and sustainable solutions.
			5974	To familiarize students with various legislative provisions with regards to
	History of Architecture and Culture IV	2	CO 1	An understanding of architecture as a product shaped by various factors like
12			CO 2	technological developments, colonization, globalization, economy, and
			CO 3	To develop students' ability to take visual notes objectively of key lecture and An understanding of different Movements in Architecture
			CO 4	Develop reading and reviewing critical literature in Modern Architecture
				To understand basic principles of daylight and artificial lighting and develop an
		3	CO 1	ability to design a lighting plan for a space.
			CO 2	To be able to calculate the energy requirement of building electrical systems.
13	Building Services II		CO 3	Students should be able to identify space requirements and integration of these
	6 - 6 - 1 - 1 - 1 - 1		2 500000	systems in architectural design.
	18			To introduce students to Building Services in low, medium and high rise
			CO 4	buildings and inculcate in
				them the understanding of integration of services in architectural design
- 0			CO 1	To be able to comprehend the site characteristics, reading and interpreting
			5 I	survey drawings, understanding equipment and methods of surveying leveling
			COZ	To help students prepare and interpret survey drawings
14	Site Survey and Analysis	2	CO3	To acquaint the students to various site surveying instruments and methods
				which enables them to coprehend the given design site
				To empower the students with the different tools for site analysis like
9			CO 4	topography, hydrology, vegetation and visual aspects to be able to derive
			4	appropriate and conscious design decision
			riira Yea	r B. Arch. (2019 pattern)
			CO 1	Students should be able to study, analyse and synthesise various design
		#		parameters in built-unbuilt spaces
			CO 2	Students should be able to design a Campus comprising of more than one
1	Architectural Design IV	10	VOZAGO LIA	building and evolve design in response to the site and the context.
		10	CO 3	Students should be able to Integrate functions, structure and services in a
1		-	CO 4	building with relevant structural system.
			CO 5	Students should be able to creatively design and program open spaces.
		1	CO 6	Students should be able to negotiate various scales in drawings and models.
			000	Students to be equipped with ability to make communicative architectural
			CO1	Students should understand the principle, methods, advantages and
		ŀ	15	disadvantages of concrete floor construction systems and single basement Students should get to know the proprietary construction (echniques for sec
			CO 2	partition ceilings with the latest available materials
			(Students should get acquainted with the different rechniques used in Interior
2	Building Construction and Material V	6	CO 3	inishing work
18		L	1	HINDER WOLK

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Î		1	CO 4	Students should get annual to 1 at 1 at 1
				Students should get acquainted with the unferent materials used in Interior
		4	CO 5	waterproofing etc & material used for basement construction
			60.6	Introducts should got acquainted with the life and the state of the st
			CO 6	equipments used in work with timber derivatives
			CO 1	Istudents should Understand the beside to
			CO 1	structural design
		1	CO 2	Students should Understand understanding of larger space spanning both in
3	Theory of Structures V	2		R.C.C and Steel
		Vertex	CO 3	Students should Understand understanding of carrying of vertical loads by
			200 100 100 100 100 100 100 100 100 100	R.C.C. Columns and Stanchions
		W	CO 4	Students should understand understanding Lateral pressure and structural
			-	principles for overcoming it.
			CO 1	Students should be empowered with the methods and tools in landscape
		1	1001	and design of the built component a
				an effective response to its setting.
4	Landscape Architecture	3	CO 2	Students should be able to discern the various aspects of given context in terms
	Section 1990 to the Application Control Contro		10000000000	of topography, hydrology, vegetation and visual analysis. To acquaint the students with man and nature relationship through study of
			CO 3	various examples of man's response to his arrest line and the study of
				Various examples of man's response to his surroundings through history. To introduce students to the various construction detaills in landscape
_			CO 4	architecture and its implementation in their design project.
			CO 1	Inculcate in students an analytical thinking about architecture, introduce variou
			COI	theoretical positions.
5	Elective I (Contemporary Architecture)	2	CO 2	Help students develop individual view points and construct arguments to put it
	N N SEEDE	ARTO	CO 3	Skill of presenting a topic of choice, and generating a discussion
			CO 4	Equip students to write a college level essay by following the formalities of
				writing in terms of references and acknowledgements
		1	CO 1	To equip students with the Understanding of Natural and Mechanical Ventilatio
	Building Services III	3	1	system in building and build a healthy environment
			CO 2	Students should be able to derive low energy consumption techniques through
6				the understanding of Passive heating and cooling system
			CO 3	Students should understand the functioning of Air Conditioning system on
				different scale and the spacial requirements of same w.r.t. different equipment, ducts and tonnage.
				To understand the complexities of Building services (Mechanical Ventilation ,
			CO 4	Passive techniques, HVAC) and demonstrate in the current semester Design
				to develop the ability to rationalize & revise the student's own design &
			CO 1	presentation drawings, for appropriate & buildable dimensions as well as to
			CO 1	incorporate the principles of the load-bearing structural system like room span,
				foundation, size of openings, cantilever provision, treatment of junctions
			CO 2	to learn to generate building drawings with corresponding schedules (opening.
				framing, finishes etc.) that are technically correct & well communicative for
				construction purposes, like a setting-out plan, a center line plan, all level floor
				plans, sections & elevations to develop the ability to generate the construction details (opening deatils,
7	Working Drawing I	2		kitchen platform details, railing fixing details (opening deatils,
		2		kitchen platform details, railing fixing details & building envelop + skin section)
	k l		CO 3	for the building with correct technical specifications and cross-referencing
	9		003	system for the detail to relate back to the main building drawings. In the process
4				develop an understanding of the mandatory requirement for the building-
1				specific details in terms of dimensions, specifications, method of assembly &
				fixing etc responding to anthronometry climate & weather as well as the to generate the final consolidated drawing portfolio, from site-level drawings to
			10	building detail drawings with appropriate cross-references, sequence of the
			CO 4	drawings, construction notes & proforma. And to develop the skill to check the
				working drawing with given checklist.
			CO 1	Students should be able to understand progressively complex spaces and
			001	buildings in terms of area, a specific community, typology, function etc. with
8			002	Students should understand concerns of sites in urban context there by
				necessitating multi storied buildings.
8	Architectural Design V	10	CO 3	Students should be able to design and layer different activities with different
	SECTION OF THE SECTIO			spatial requirements
			CO 4	Students should be able to Integrate functions, structure and services in a
			\$3859 M	building with relevant structural system
			CO 5	Students to be equipped with ability to make communicative architectural to students should be able to negotiate various scales in grawings and models.
		-	CO 6	Students should be able to negotiate various scales in drawings and models.
- 1	4		CO 1	Students should develop an understanding of possibilities of steel as an
		- 1	COI	mportant building construction material.

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ì	1	197	4	
			0.00000000	Students should develop understanding of properties of ferrous and non ferrous
			CO 2	metals as materials for buildings will unable students to use Steel innovatively in
				building projects.
9	Building Construction and Material VI	195	CO 3	Students should know about the advanced techniques used to improve
1		6		learthquake resistance in construction
		1	CO 4	Students should get exposure to different types of roofing systems &
1		1	11 127 93 03 93	connections in steel structure
1		T .	CO 5	Students should get acquainted with the Industrialised building construction
				System along with Precast construction systems
			CO 6	Students should know about the application & execution process for steel &
de al			II UNAWAN	precast construction
		V	CO 1	Students should develop the understanding of Effects of Lateral Pressure of Soil
			B	and Water
10	Theory of Structures VI		CO 2	The state of the sense to make the state of
10	meary of structures vi	2	CO 3	Students should develop the understanding of different Structural Systems for
				Larger Spans and Tall Buildings with an understanding of Wind Load
H.		1	CO 4	To develop in students, the feel for structural principles and their relates to
		100		building design.
			CO 1	To introduce students to Research in Architecture and its various concepts
11	Research in Architecture I	1	CO 2	To introduce students to basics of research and comprehensive writing
11	inesearch in Architecture (2	CO 3	To introduce students to methods of research in architecture - Literature Students
		1	2000000000	Juse of surveys, observations, experiments, secondary sources etc.
		_	CO 4	To enable the students to prepare a research proposal
			CO 1	Students should be able to employ research and analysis methodologies
	2	1	5.5.5	pertaining to various design processes, meanings, and user experiences
	Elective II	3	CO 2	Students should be able to apply creative techniques in problem-solving and
12				Critical thinking.
			CO 3	Students should be able to demonstrate and employ various drawing skills to
				develop concepts.
			CO 4	Students should be able to understand fabrication methods to build scaled
				prototypes and eventually execute it
			CO 1	The Student to equip with the knowledge of Fire fighting and Acoustics in
				Architectrure and its importance in building design to make safe and health
			CO 2	Be able to understand the value of Acoustics w.r.t. from Site planning to
13	Building Services IV	3		Individual spaces
			CO 3	Be Able to Understand, requirement and specification of building material,
			003	construction technique, Fire Prevention and Life safety measures to safe life
			CO 4	To understand the complexities of Building services (Acoustics and Fire Fighting)
				and demonstarte in the current semester Design Project through site planning to
			1	To develop the ability to rationalize & revise the student's own design &
			CO 1	presentation drawings having minimum 2 storyes, for appropriate & buildable
				dimensions as well as to incorporate the principles of the selected structural
	1			system like room span, foundation, size of openings, cantilever provision. To learn to generate building drawings with corresponding schedules (opening,
				To learn to generate building drawings with corresponding schedules (opening,
				framing, finishes, etc.) that are technically correct & well-communicative for
			22/12/20	construction purposes, like a setting-out plan, a center line plan, all level floor
			CO 2	plans, framing plans, sections & elevations. To generate the appropriate internal
				layout drawings, taking into consideration the room sizes, position of openings.
105107	100			partitions etc., that are technically correct & well-communicative for execution
14	Working Drawing II	2		nurnoses, room plan, section, reflected ceiling plan to develop the ability to generate the construction details (staircase, toilets &
				to develop the ability to generate the construction details (staircase, toilets &
				building envelop + skin section) for the building + interior details (furniture,
5) I	1002200000000	partition & false ceiling) with correct technical specifications and cross-
		1	CO 3	referencing system for the detail to relate back to the main building drawings. In
				the process develop an understanding of the mandatory requirement for the
				building-specific details in terms of dimensions, specifications, method of
				assembly & fixing, etc. responding to anthropometry, climate & weather as well
				assembly & fixing etc responding to anthropometry climate & weather as well to generate the final consolidated drawing portfolio, from site-level drawings to
			COA	building detail drawings with appropriate cross-references, sequence of the
				drawings, construction notes & proforma. And to develop the skill to check the
				working drawing with given checklist
		Fo	ourth Yea	ir B. Arch. (2015 pattern)
			CO 1	Ability to comprehend and understand the larger context through
1	1			documentation & aspect based studies of selected study area. P
	1		CO 2	Develop group wise thematic approaches for selected study area
- 1		- 1		Formulation of program for Multifamily Residential Development + identification
			CORI	1 o desidential géreighment i dentine allement
1 1	rd.		CO 3	of the user group

1	Design VII	8	CO 4	and a services, explorations in construction
			CO 5	technology & structural system etc. Develop a Multifamily Residential Typology (builtform & functional) with interrelated scales - Neighbourhood, Site, Cluster & Unit; in response to physical
			CO 6	determinants like, Density, Unit mix, Site & Built-Up calculations, Ground coverage, FSI, etc. and resolve Habitable & Service grids
			CO 1	Learn techniques and methods to document and prepare appropriate
		Ř		representation + technically correct drawings for multilevel basement parking. Develop the ability to decode and analyze the parking layout, building services
			CO 2	and structural grid + construction details of existing buildings like retaining wall, foundation etc.
	Advance Building Technology and	4	CO 3	Develop understanding of swimming pool typology & its systemic, technical, & functional requirements through reference studies.
2	Services I	5	CO 4	Learn the method of identifying the suitable industrial processes for the neighborhood + prepare the master plan, process flowchart, and design guidelines for the selected industry from the reference studies.
			CO 5	Demonstrate the ability to resolve & produce technically correct drawings of the C & D waste recycling plant with required services, structural system, machine &
			CO 6	Develop the ability to select an appropriate long span structural system for the chosen industry + detail the drawings in response to services, machine layout,
			CO1	and need of the industry. Ability of student to understand role of Architect in society and implications of
				Architects Act 1972 on the profession including rights and duties as defined by
3	Professional Practice I	2	CO2	Develop knowledge of working of an Architect's office, understanding aspect of professional fees and mode and nature of professional Practice.
			CO3	Understand role of various professional organizations in architectural practice incuding benefits and processes to join them
			CO4	Understanding role, importance, types and processes of Architectural
4	Urban Studies I	2	CO 2	Understanding and assimilating the urban planning and design theories. Understanding the importance of neighbourhood planning, visual theories, DCR and bye-laws, MRTP Act and relevance of its learning in Architecture profession.
			CO 3	Understanding the evolution of housing typology and its physical determinants.
			CO 4	optimization of available land for a specific use.
		2	CO 1	Understanding the meaning and need of research in architecture and various concepts such as types of variables, measurement of variables, sample selection,
5	Research in Architecture I		CO 2	ethics in research.
	- Architecture			Understanding and assimilating Literature Reviews. Methodology and Methods of research in architecture. Use of surveys,
			CO 3	observations, experiments, secondary sources.
			CO 4	To enable students to write a research proposal.
6	Overtile C		CO 1	To develope knowledge about basics of qutity surveying and method of To get acquaint with calculating quantities for load bearing structure (G+1)
D	Quantity Surveying and Estimation I	2		To get acquaint with calculating quantities for load bearing structure (G+1) To get acquaint with calculating quantities for RCC (G+1) structure
			CO 4	To give exposure to IS 1200 mode of measurement for building entities in
			CO 1	To develope knowledge about basics of specicifications need, scope types etc.
7	Specification Writing I	2	CO 2	To acquint students with writing methodology for specifications of materials and execution of work (workmanship)
			CO 3	To explore Relationship between working drawings, specifications and quantities
25-			CO 4	To acquint students with specifications for demolition of work and formwork
8	Design and Technology Elective	1	CO 1	Develop knowledge about the recent developments in the field of architecture from point of view of building design, services and construction
-			CO 2	Application of the skills learnt
			CO 1	Ability to comprehend and understand the larger context through
			CO 2	documentation & aspect based studies of selected study area. Develop structure plan and design guidelines for thematic approaches in groups.
			CO 3	Formulation of program for need based non-residential Development +
9	Design VIII	8	COA	identification of the stakeholders. Develop design narrative & approach - public realm, multipurgose use.
			2025 H	Sustainability, low-cost construction, explorations in construction technology & Develop an urban insert typology - amenities & facilities with interrelated scales -
			CO 5	Neighbourhood, Block & Site; in response to physical determinants like, Site & Built-Up calculations, Ground coverage, FSI, etc. and resolve function & serving
			CO 6	Synthesis into a well resolved Urban Insert Project

07

				Identification and decoding of design program, structural system & services
			CO 1	requirements for the selected highrise typology on the basis of supporting data
				and information from the parallel references.
	1		8	Synthesis in terms of well resolved structural system & services required in high
			CO 2	rise for the selected context & concern, responding to local & global issues +
	· ·	1		environment, community, culture of the region
	Advance Building Technology and	W		Develop ability to generate idea and Design program based on understanding of
10		5	CO 3	function structure & services a service to be sign program based on understanding of
	Services II	100		acoustical & visual environment + construction &
	. A			ventilation systems using parallel references for an auditorium. Synthesis of an auditorium in response to the existing physical and
			CO 4	programmatic content of the existing physical and
		A.		programmatic context of the institute. with proper seating configuration,
			CO 5	geometry, structure and building services understanding of systems in built environment
			003	Tochnical analysis of
			CO 6	Technical analysis of construction techniques, specification & quantity
				estimation used in the execution of the detail
	1		CO1	Understand various modes of construction management like direct work, site
	1			visit report Tenders, its types, documents & processes
11	Professional Practice II	2	CO2	Abiity to understand role of architect in contractual management including
			600	contents of contract document
			CO3	Understand importance of National Building Code
			CO4	Ability to understand the Role and Legal duties of Architects in Arbitration and
		-		Valuation.
	Urban Studies II	2	CO 1	Ability to comprehend and identify issues related to various aspects such as
			The states	image, environment, culture, traffic and transportation etc through primary
			CO 2	Understanding of the inter-dependencies of various networks, systems, function
12			- AND AND A TOP	and activities in a selected neighbourhood
			CO 3	Analysing the urban fabric of a neighbourhood in terms of its morphology
		i i	3000	through the layout and pattern of sub-division of streets, plots and buildings
			CO 4	Understanding the process of planning & survey, conservation and Urban design.
			0.000.000.00	guidelines, legislation.
		2	CO 1	Data collection of various case studies undertaken for topic exploration.
13	Research in Architecture II		CO 2	Analysis of data using various techniques such as verbal, visual, graphical,
13	Nesearch in Architecture ii		0.000000000	numerical etc.
			CO 3	Findings and Technical writing of research conducted in the form of research
277170			CO 4	Presentation of a research paper in prescribed format.
	1	4	CO 1	students should get aquainted with rate analysis for every entity in construction
		9	CO 2	students should get aquainted with indent of materials
14	Quantity Surveying and Estimation II	2	CO 3	students should get aquainted with quantity working for water supply and
			18 H 28 1	sanitation systems
		1	CO 4	students should get aquainted with quantity working for steel structures -
			57550100	industrial truss
			CO 1	Explain importance of check list in building construction
			coal	to explain about specifications for services (Water Supply & Sanitation.
15	Facility William			Electrification, HVAC, Acoustics, Fir Fighting)
15	Specification Writing II	2	соз	to explain about specifications for communication Systems (lift, escalators,
			1 3 5 5 5 5	telecommunication, accessibility)
			CO4	to explain about specifications for renewable energy, water proofing, external
			COMMONDAY.	developement, market survey etc.
16	Elective III - Allied	1		Develop understanding about links of design as a faculty with allied fields
	-sansanneniseanna Massacean	10.44	CO 2	Application of the skills learnt

	2010/11		I I I I	ar B. Arch. (2015 pattern)
			CO 1	Develop the ability to work outside his / her comfort zone through joining offices which are outside the state of Maharashtra or the homestate of student to give an exposure which is outside the students cultural zone of working and living
			CO 2	Develop the ability and tenacity in student to work for a period of continuous 6 months in a single office
1	Practical Training	8	CO 3	Develop exposure to real life situations through active participation in working on ongoing projects in the office & Understand the complexity in the working on the process of a project from client brief to excution of the project w.r.t. design, services, structure, management, working drawing, construction details.
			CO 4	Develop the ability in student to work with confidence and full comitement in a professional office as part of a larger professional team. Thus also develop the ability to follow instructions and understand the profess of teamwork wife.
			CO 5	Develop ability of student to document the training process by responding to various formats like day to day work diary, log book a prepare a portfolio of work done in office which could be stored in college library for reference of future generation of students

			CO 6	Develop the ability to develop a 'Real time' attitude towards work and reflect
			CO 1	Tendering
2	Elective IV	2	CO 2	finalizing the
			CO 3	most suitable contractor for a project. Basic Approaches Of Valuation ,Valuation of Leasehold Properties, Valuation of Rental Properties
			CO 4	Theories of Land Valuation, Valuation for different purposes, Case Studies In Valuation, Report writing
	Architectural Design Project		CO 1	Aims at encouraging exploration of Ideas, addressing Social-Environmental-
			CO 2	Historical issues and Building Types that together make architecture and built To realize that the philosophical - social - political - economic - cultural - historical - environmental - scientific - technological - engineering issues need to be seen together as a whole phenomenal reality that creates a ground and consciousness for architecture and allied disciplines.
-		4	CO 3	Aims at approaching Architectural Design Project as an enquiry, study, investigation, and research methodically pursued by the students
3		12	CO 4	To understand the seriousness of investigation into understanding interconnected complex issues in their chosen area of research into any one or more areas of concern/interest
			CO 5	Giving the students an opportunity to articulate idea/enquiry and adding a new perspective to it and arriving at a rational conclusion with a design
- 19 2			CO 6	Organizing EXIT Exhibition to generate a window where students interact with citizens, professionals from the construction industry and allied fields thereby increasing the reach of students' projects and potential and encouraging employment opportunities to recent graduates.

POST GRADUATE - Urban Design (UD)

Program Outcomes

- Students shall be equipped to understand surveying and documentation techniques, and analyse real site conditions in an urban area,
- Students shall be equipped to understand urban spaces critically in terms of their processes, outcomes and performances. 2
- Students shall be enabled to understand client dynamics and tangible deliverables through working on live and real case situations in the
- Students shall be exposed to the need of research in Urban Design, essentials of any research and various research methodologies used in
- Students shall be equipped with necessary information on various interdisciplinary theories, principles, techniques and methodologies.
- Students shall be enabled to deal with varying site-based natural and ecological systems with reference to urban design projects and the
- The students are expected to learn to work as a team member towards a holistic development of the built environment.
- Students shall be exposed to various modes of professional practice in urban design in local and global context through practical training as
- Students will learn to take a position and be able to develop their own argument regarding an issue or the aspect of human

Course Outcomes

-		M	Arch, L	Jrban Design (2019 pattern)
				First Year
Sr. No	Subjects	Credits	CO Nos.	Course Outcomes
	UD Studio – I : Urban Interventions		CO1	Students will be exposed to the complexities of the urban processes which are context-specific thrusting upon site study, documentation, mapping and analysi which in turn will provide the key ingredients for gaining contextual knowledge of any given situation.
			CO2	Students will be equipped with understanding the role of various layers of the making of a city/town/village that contribute in the various urban processes. For e.g. physical, social, economical, infrastructural, etc.
1		10	CO3	Students shall be able to understand the importance and contribution of a decision-making processes to be able to address the concerns holistically
			CO4	Students will be aware of the contribution of related disciplines associated with production of the city.
			CO5	Students shall be familiarized with the urban design terminologies, methods of surveys and site analysis along with various documentation techniques.
			CO6	Students will understand about assessing the needs of the project along with preparing the programme of design intervention and design demonstration as part of the design realisation process.
			CO1	Students will be exposed to the idea of understanding various aspects of 'Humanities & Social Sciences'.
1		I L	CO2	Students will be exposed to the process of urbanism critically in contemporary

2	Elective – I (Humanities & Social Sciences)	3	COS	Students shall be trained to identify and understand the issues, dilemmas,
	(Homanities & Social Sciences)			lideologies and new patterns that are emerging in contomposed to the contomposed to
			CO4	students will be equipped with the ability of understanding and developing
			004	different approaches to address critical concerns under the domain of humanities & social sciences.
		V.		Students will devolop skills that I I
			CO1	in a comprehensive manner by sensitively acknowledging its ecological setting
		1	CO2	
3	Decidence of the Control of the Cont		CO2	Isite and its resource systems
)	Landscape Urbanism and Site Planning	4		Students will be enabled to deal with varying site-based natural and ecological
			CO3	systems with reference to urban design projects and the city at large to enhan
		1		Critical thinking and decision making
			CO4	Students will be equipped with the abilities to conceptually understand the
		-	-	[ecological support systems like services and related infrastructure
	1			Students will achieve a comprehensive understanding of various ideologies,
			CO1	phenomenons, processes, etc. that have shaped the evolution of settlements i
		The second		history by studying precedent examples and its urban form and urban spaces in
4	History of Urban Form and Space		151001	historical and theoretical terms. Students will be equipped to be exposed to the entire process of historical
1.8	ristory or orban rorm and space	3	CO2	evolution and transformation of settlement pattern along with its urban form
		ð	603	Students will learn various urban form determinants by studying representative
		*	CO3	examples in reference to the historical timeline of evolution of urban design
			CO4	Students shall develop an understanding of the historical perspective when
			C04	Idesigning in contemporary contexts while being sensitive towards the original
	Urban Design Methodologies		CO1	To provide explanations of Urban Design terminologies, definitions and
		3		methodologies for shaping and understanding of urban form 8, urban
			CO2	Students will understand the theory and draw parallel references from empiric
5			2332-00	levidence based on interpretation of existing urban morphologies
			CO3	of tudents are exposed to different methodological approaches, technologies, are
			1 003	foundation theories of urban design through established reference text sources
			-	such as books and journals.
			CO4	Students will understand the aspect of various scales of representation of urbar form & urban space under same.
				Students will understand different examples from contemporary India drawn
		2	CO1	from various disciplines like history, sociology, humanities, political studies,
				economics and technology and their implications on the city space.
6	Reading the City		CO2	Students shall understand the relation between the city space and its
			CO3	Students will understand the processes of production of culture where multiple
			- 002	layers of production exist simultaneously.
			CO4	Students shall learn ways of reading the cities and their phenomenon through
				different narratives and shall also be equipped with the required writing skills
		8	CO1	Students will be able to apply theoretical knowledge in resolving a design
				problem for a Green Field site or an Urban Extension situation. Students shall be able to look at cities and their growth outside the realm of
			CO2	Urban Design and develop methods to comprehensively deal with its
				development within the context of the civil its
				development within the context of the city itself. Students will develop a holistic (theoretical as well as physical) understanding of
			CO3	the site, its potentials and its constraints to be developed to create a set of
			COS	proposals dealing with broad issues of sustainable development with focus on
7	UD Studio – II : Urban Extensions /	2000,000		laddressing the idea of resilience
1	Green Field Development	10	984.3450y-0x	Students shall be able to evolve a design brief pertaining to specific situations
			CO4	after an exhaustive analysis of the collected data, all within the limitations of the
	1			lestablished norms
- 4		6		Students shall be able to formulate a vision statement and evolve a
			CO5	comprehensive urban structure plan for the proposed site addressing the site &
	1			context, culture and lifestyle, ecology and environmental issues, scales and
				density, services and infrastructure, etc. Students will be enabled with the skill to conceive urban extensions or
	Ti and the second secon		CO6	development on green-field sites professible for the
			-05	development on green-field sites preferably for live and real urban conditions,
				thereby understanding client dynamics as well as tangible deliverables. Students shall develop a comprehensive understanding of the urban design
- 3		1	CO1	discipline by studying it from various Interdisciplines Design
		1		discipline by studying it from various Interdisciplinary Design and Planning fields. Students will be exposed to the various aspects & concept in Felation with
		1		Students will be exposed to the various aspects & concept in relation with urban development from interdisciplinary feilds like Integrating Cites in Visual Arts/Performing Arts/Literature/Cinema: Urban Activation Londres
	Elective – II		CO2	Arts/ Performing Arts/ Literature/ Cinema; Urban Aextestics; Landscape
- 1	(Interdisciplinary Design and Planning	3		Urbanism; Art and Science of Conservation; Environmental Planning; Future
- 1	Finide)			Cities: G.I.S. and other softwares: Computer Aided Urban Design or any other)
				The state of the s

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	rieius)	7	-	Student's chall be accessed that I I was
			CO3	Student's shall be equipped with the ability to think laterally about the cities its complexities from the interdisciplinary perspective.
				Students will be familiarised to the ability of critical understanding one of the
			CO4	important interdisciplinary dimensions being dealt with in the UD Studio II
		_	-	through this elective.
		1	CO1	Students will be acquainted with the evolution of ideas and principles of Urba
			1001	Design by centering on the relationship between societal change and the form organization of the urban environment.
				Students will learn to pursue historical, theoretical and critical lines of
			CO2	arguments by examining urban places and spaces in their making, use and
9	Urban Design Theories and Criticism	4		change, ranging from early civilizations to the present
		7	1	Students will be equipped with the ability to study and understand the urban
		W	CO3	spaces critically in terms of their production processes and their performance
				as social and public spaces.
			CO4	Students shall learn to evolve their thinking ability by processing various sets information and also learn the skill of critical thinking and also learn the skill of
				representing their critical thinking through formal writing.
				Students will attain the understanding required to establish the need of resea
			CO1	in the field of Urban Design along with the process of formulating a research
				proposal and project.
			Parati	Students will gain awareness about different types of research, their advantage
10	Research I	3	CO2	disadvantages and their applications while learning various research
55		3	-	methodologies and methods used in the realm of Urban Design and Urban
		1	CO3	Students will develop skills of conducting and communicating research by
		Í		developing abilities of data collection, analysis, technical writing. Students will attain the comprehensive knowledge of conducting an ethical
			CO4	research which includes areas like understanding Cyber Security and Laws,
				Intellectual Property Rights and Plagiarism
				Students will be exposed to the principles of planning and critically evaluate
			CO1	different planning processes prevalent in India and abroad to understand its
0				limpact on the development and growth of the City
				Students will be aware of the statistical and survey techniques used in
	Planning Tools for Urban Design	3	CO2	preparation of planning and urban design programmes informing the student
1				the various methods, techniques and processes of planning, focusing on the latest methods of assessing and gathering information.
				Students will learn concepts and theories of planning and their applications in
			CO3	terms of preparation of various types of plans, preparation of guidelines and
				regulations, understanding of legal and statutory aspects, etc.
			CO4	Students will be equipped with necessary information and knowledge on
-			1,7678.02	planning theories, principles, techniques and methodologies.
		2	CO1	The students will gain an understanding of the infrastructure needs for an urba
- 1			02081600.11	environment and fundamental concepts that cater to such needs. Students will be equipped and aware of both social and physical urban
			CO2	infrastructure along with their relationship with urban design.
2 (Urban Systems		500	Students will be sensitized to the issues related to traffic & transportation in
			CO3	cities and various planning tools & mechanisms to cater to the same
				Students will be informed of different transportation systems, surveys and
			CO4	models, standards policies and techniques for designing of pedestrian spaces.
100				parking and other modes of travels, etc. along with their relationship with urba
-		·		Second Year
			CO1	Students will have had understood the process of evolving a premise for urban
				design in tune with the growth and transformations within / of a city in a brow field situation.
				Students will be able to inspect into the various key issues within the city and
100			CO2	identify opportunities of responses through various approaches like urban
186			COZ	regeneration / restructuring / renewal, etc. and evolve an agenda for Urban
				Design through the lens of the approach selected
		10	CO3	Students will learn to evolve a design brief and undertake suitable intervention
	UD Studio – III : Urban Transformations		Beer/Cortes	with engagement of various stakeholders.
L			CO4	Students will have learned appropriate tools and mechanisms for
ľ				implementation of the proposed project with understanding of its financial Students shall attain capabilities of theorising and articulating a design problen
		9 9		toplen
				understanding design decision process, preparing structurally 2, walking
			CO5	understanding design decision process, preparing structurelolan & design strategies, developing implementation mechanisms and evaluation needed to
, [CO5	strategies, developing implementation mechanism, and avaluation needed to
,		5	CO5	strategies, developing implementation mechanisms and avaluation needed to realise a practical Urban Design Project. Students will have learnt to prepare a comprehensive report of documentations.
s u			CO5	strategies, developing implementation mechanism, and ovaluation needed to realise a practical Urban Design Project. Students will have learnt to prepare a comprehensive report of decumentation studies and analysis along with preparation of a Detailed Project Report (DPRo)
		5	CO5	strategies, developing implementation mechanism, and avaluation needed to realise a practical Urban Design Project. Students will have learnt to prepare a comprehensive report of documentation
			CO5	strategies, developing implementation mechanism, and ovaluation needed to realise a practical Urban Design Project. Students will have learnt to prepare a comprehensive report of decumentation studies and analysis along with preparation of a Netpiled Project Report (DPRO).
			CO5	strategies, developing implementation mechanisms and evaluation needed to realise a practical Urban Design Project. Students will have learnt to prepare a comprehensive report of documentation studies and analysis along with preparation of a United Project Report (DPRO).
			CO5	strategies, developing implementation mechanism, and ovaluation needed to realise a practical Urban Design Project. Students will have learnt to prepare a comprehensive report of decumentation studies and analysis along with preparation of a Detailed Project Report (DPRo)

				Ch. L. L. all.
			CO1	Students will be equipped with the thinking abilities to study central issues
				related to Urban Design from past, to the present day and future. Students will be capable of conducting theoretical explorations related and
14	Research II	3	CO2	supportive to the selected research topic.
		3	CO3	Student will be equipped to undertake an independent and a methodical
	1		CUS	research on a topic in Urban Design
			CO4	Students will be equipped with the comprehensive skill set of conducting and
			5050%	Writing a successful research
	¥.			Student will have had acquired experience of working on projects of urban scale
			CO1	(research and design both) with an organization involved in Urban Design or its
				allied disciplines along with getting acquainted with the structure and systems
		2013	-	an office working. Students will be exposed to the nature of various Professional Practices in Urba
	Urban Design Policies: Practice &		CO2	Design in local and global context through practical training as well as through
15	Implementation	4	1	Itheory course.
	- Famenadon	1		Students will be acquainted with the role and stature of an Urban Designer in
			СОЗ	the society, as well as understand the duties, responsibilities, liabilities and
		ä	003	ethics as a professional by preparing a comprehensive Detail Project Report
				I(DPR) which covers the entire process involved in the realization of
			CO4	Students will be equipped with the understanding of providing professional
				Iservices involved as part of the professional practice
			CO1	Students shall be equipped with the understanding of various charters, dossier
				and reports by various national and international agencies working in the field of
		3		Urban Conservation which in turn will sensitize students towards acknowledging
				and responding to heritage as an important component of any city fabric. Students will learn various tools and methods of documentation of the past
	3		CO2	layers of development of historic procincts correspond to the past
16	Urban Conservation			layers of development of historic precincts corresponding to its time and Students will understand the importance of the discipline of Urban Conservation
			CO3	as a tool / method while developing design approaches like urban revitalization
			COS	renewal considering the socio-cultural and morphological aspects of the built
				environment from heritage perspective
			CO4	Students will be exposed to the role and importance of Urban Conservation in
				Urban Design that will sensitize students to designing in the context and develop
				alternative frameworks of assessment and response
	Urban Economics and Financial Planning		CO1	Students will be acquainted with the idea of economy and finance as the vital
		3		dimensions of various urban processes. Students will appreciate and understand relation between Urban Design project.
17			CO2	and economic processes at three scales – global, national and local.
(GA)			CO3	Students will learn concept, systems and mechanisms of urban financing as an
			COS	important and allied component in realizing urban scale projects
			CO4	Students shall develop the ability to analyze relations between trade patterns
			0.50.7594.0	and urban structures and form.
			CO1	Students will be exposed to and learn the new trends and paradigms of
	Emerging Urbanisation			urbanization / urbanism emerging through different phenomenon, discourses,
				practices, realities, etc. in the past 15-20 years with a focus on the Indian Students will develop critical understanding of urbanisation and urbanism as
				processes and ideas of urban development as these patterns and ways of
18		2		thinking tend to emerge as development trends.
5755 U -				Students will have developed an understanding of the formal as well as informal
				trends in urbanisation which would have been a resultant of the processes of
10			4	planned as well as spontaneous urbanisation involving various actors operating
		- 1	190704-7107	Students will learn further to evaluate the potential and limitations of the
			CO4	emerging concepts in urban design in terms of their applicability at large by
			·	critically analysing various urban patterns and phenomenon.
- 1			CO1	Students will be aware of the structure, source, objects and philosophy of
	Introduction to Constitutation	2	Name and	Constitution of India,
19			CO2	Students will be acquainted with the undersatanding of their freedoms, responsibilities and fundamental rights and that of others too.
		34100		Students will be aware of and learn about the Directive Principles i.e.
			CO3	Fundamental Principles' in the governance of the country as a state policy.
-			CO4	Students shall have learned about their fundamental duties.
			COI	Students will have had developed the ability to both theorize and demonstrate
	1			their entire knowledge from the previous semesters is terms of those space
- 1				students will learn to take a position and be able to develop their own again ent
			CO2	regarding an issue or an aspect of human settlement? rown / city through the
				knowledge gained from the research conducted earlier preferably.
			CO3	Students will develop the ability of additionally looking at research-based ndependent thinking pertaining to their design thesis project argument.
- 4	.1	L		independent trimining pertaining to their design thesis ordiest aroument

20	Urban Design Project	20	CO4	Students should be able to critically reflect on similar arguments, ideas and design implementations in diverse contexts through the conduct of various
			CO5	Students will have developed the ability to theorise and articulate a design problem, understand the design decision process, prepare a structure plan, formulate design strategies, realise the demonstration and respond it through design and implementation strategies.
			CO6	Students shall be equipped with the ability of preparing a comprehensive report of articulated design concern, documentation, studies, analysis and design.
	Elective – III(Open Elective)		CO1	Students shall learn minimum one or multiple new dimension/s from the interdisciplinary area with its theoretical knowledge and practical understanding.
			CO2	Students will learn broad ideas and concepts inherent in the subject of elective
21		5	CO3	Students will understand the importance of application of the ideas and concepts learned and its contextualization in the field of Urban Design
			CO4	Students shall be equipped with the abilities of supportive as well as lateral thinking ideas that contribute to the discipline of Urban Design.
			CO5	Students shall learn the abilities of participative as well as collaborative working
			CO6	Students will be able to represent their learning outcome in the form of a report / journal / model or any other form suitable for the topic studied.

POST GRADUATE- Landscape Architecture (LA)

- DESIGN AND PLANNING ABILITIES Imparting the abilities with respect to design and planning of landscapes
- KNOWLEDGE BASE Knowledge of theory of landscape architecture, research and allied disciplines relevant to the field and its challenges,
- PRACTICAL, TECHNICAL AND COMMUNICATION SKILLS- Ability to work on real life contexts/projects (design, planning, and research) and
- SENSITIZATION, RESPONSIBILITY, COMMITMENT (TOWARDS NATURAL AND CULTURAL ENVIRONMENT AND ASSOCIATED ETHICAL
 - OUTREACH, DIVERSITY AND EXPOSURE Ability to expand the scope of work of landscape design and planning and to respond to diverse

Course Outcomes

Semester I (2019 pattern)						
or. No	Subjects	Credits	CO Nos.	course outcomes		
			CO1	Students will imbibe an understanding of how to perceive & comprehend		
		1	COI	various landscape spaces		
				Develop an understanding about how to study & analyze designed as well as		
			CO2	natural environments to understand various constituents of the landscape		
				design & the role they perform in design (visual / aesthetic, ecological, cultural,		
			CO3	the learning will empower to synthesize the essential character of the place and		
	1 N			its features , the perception of which allows the student to manifest an		
1	Landscape Design Studio-I	10		appropriate design proposal		
				Students will be able to comprehend the process of site & context study & how		
			CO4	to arrive at rationale of siting , developing conceptual design , program		
				formulation/landscape design brief		
			COS	The learnings will empower the students to apply the various elements of		
				Landscape in their design development.		
			COE	apart from the landscape proposal responding to the human use the learning		
				will help the students to comprehend with the living community of plants and		
		3 -	CO1	To introduce the students to digital tools related to GIS such as QGIS & Global		
	Elective-I GIS: Geographical Information System			mapper and their significance as a tool for mapping in landscape architecture		
			CO2	To introduce the students to the steps and the techniques of digitizing the		
2				various maps relevant for landscape architecture		
			203	To enable the students in mapping of the natural and built layers such as relief,		
				gradient, aspect, vegetation, hydrology, landuse and landcover etc.		
			COA	To enable the students overlay and analyze the various layers of site study and		
	NAME OF THE PARTY		i Denotre Solta	synthesize it to derive spatial analysis		
		4 -	COI	To understand visualizing landforms, their graphical representation, deriving		
Ä	Landscape Engineering			contours by method of interpolation		
			CO2	relationship between site characteristics and design requirements. Process of		
				site analysis / documentation with respect to gradient, relief, aspect, surface		
3				water regime etc.		
			200	To introduce Earth Work: Cut fill processes & Computation, grading of terraces,		
				grading of roads, basics of road alignment (horizontal and vertical)		
			CO4 5	Understanding drainage pattern and watershed area, storm water run-off		
				systems and their design, calculation of surface runoff, determination of		
				catchments area and discharge rate, etc.		
		3	CO1	Understanding of various phenomenon and processes with respective acquiring		
	Geology And Soils		CO2	Understanding minerals, metals and rocks		
4			CO3	Understanding formation, classification and mapping of soils		
				Applicative understanding of ecology and soils and the analysis of various		
				parameters to arrive at appropriate inference		

5	Geomorphology And Hydrology		CO1	Understanding Geomorphological processes, landforms and geomorphological features
5	Geomorphology And Hydrology		U-SOUGHOUSE.	features
5	Geomorphology And Hydrology			
<i>-</i> 5	Geomorphology And Hydrology		CO2	Understanding hydrological cycle, watersheds and watershed management,
		3		types of flow and drainage basins
			CO3	Understanding various phenomenon & processes and how do they create
			XIE. GOAL	particular kind of a landscape as a result of the same.
		1	CO4	Understand the interconnectedness of various earth sciences & develop an eye
		A		of observation & Analysis of various parameters to arrive at inference.
			CO1	Understanding the Phytogeography Zones of India and Introduction to Plant
6	Diant Systematics R. T.	1	CO2	Studying plant structure, morphology, anatomy, plant physiology and plant
U	Plant Systematics & Taxonomy	2	CO3	Undertanding the relationship between habit of a plant, its form & habitat
		1	CO4	Understanding the attributes of plant materials, its value and significance in
		-		natural and designed environments so as to decide their applications in
		ye	Sem	ester II (2019 pattern)
			CO1	Demonstrating contextual understanding, documentation of site characteristics,
	1			landscape layer mapping and analysis
			CO2	Demonstrating the process of landscape program formulation and it's zoning
		1	-	based on site suitability
			CO3	Process of schematic landscape design development/planning in response to
1	Landscana Danies St. J	172123	65	contextual analysis, synthesis & theoretical bearings
+	Landscape Design Studio-II	10	CO4	To be able to derive an open space structure for the zones with suitable
			200000000	landuses/activities in response to the context
			COS	Evolving landscape structure for the overall site & suggesting an appropriate
			005	landscape design with respect to ecological, functional, cultural & visual context
				Communicating the understanding through comprehensive graphical
			CO6	representation and narratives that encompass the various tangible and
				intangible aspects incorporated in the landscape design proposal
		0)	CO1	Understanding of landscape construction technical drawings and details
	C1440705740 07.00		CO2	Understanding of landscape services technical drawings and details
2	Elective-II	3	CO3	exposure to the market trend for various materials and technologies used in
	Landscape Construction and Services	-	CO3	Landscape design through conducting market surveys.
	CAN THE CASE OF THE CONTROL OF THE C	15	CO4	Familiarization to the various landscape mitigation techniques used to create a
			C04	sustainable landscape project
			CO1	Understanding Fundamental concepts & principles in ecology – Evolution of life
			CO1	on earth, Environment , habitat , niche , Interactions , food chain , food web ,
		4		Study all major biomes of the world & major ecosystems of India with respect to
3	Ecology And Ecosystem Analysis		CO2	the physical characteristics, relevance and function
3	Leology And Ecosystem Analysis		25275G32511V	Understanding biodiversity, biodiversity hotspots, the role of indigenous and
			CO3	issues with non-indigenous flora and fauna
		3		Understanding landscape ecology, ecological services and field eology methods,
			CO4	techniques and applications
			2050763347	Understanding the need & scope of theory and the tools to study & develop the
			CO1	same with respect to landscape architecture
				Studying landscape attitudes, approaches, design & philosophy through history
	Theory Of Landscape Architecture-I			starting from the ancient till early 19th century along with insights into natural,
			CO2	social & temporal context and development of a theoretical structure for such a
				comparative study
4				Discerning the changing perceptions of man's relationship with nature in various
			CO3	phases of history, Responses and attitudes to nature and landscape resources as
				a function of this perception.
				Understanding of environmental and behavioral theories like Entropy, Prospect-
			CO4	refuge theory, Defensible space etc., introduction to social and cultural
				dimensions of landscape
	Research-I		7 = -7	Developing an understanding of research, types of research and the process of
		134	CO1	formulating research proposal
		3		Studying the various methods of research, their relative advantages and
5			CO2	disadvantages and their applications
				Introduction to research publication, developing technical writing skills and
13				
				presenting a research paper
			CU4	Introduction to the concept & Problem of plagiarism & software to check the
		2		Understanding the relationship between ecological and visual characteristics of
	Plants And Design			plants, looking at their form in relation to their habit.
			CO2	Familiarizing with indigenous plants and planting techniques for tree, shrubs and ground covers
6				and ground covers Developing the ability to coloct plants have due to the coloct plants have du
-			COS	Developing the ability to select plants based on the visual, functional, recoor al,
				cultural & temporal, laying emphasis on architectural & spatial significant of the vegetation in addition to its environmental lange.
				The vegetation in addition to its environmental fields by the

			CO4	Understanding the principles of designing with plants and demonstrating of
WAYII.			Sem	planting in landscape architecture through graphical representation ester III (2019 pattern)
		1		Understanding of the landscape regional context as an interacting process
		A.	CO1	between the natural layers and the resulting man-made environment
		1	CO2	understand the significance of landscape planning and role of landscape
			CUZ	architect with respect to the same through relevant literature and case studies
		4	CO3	To identify the various issues and concerns in relation to the large scale
1	Landscape Design Studio-III	10		landscape and come up with appropriate framework for the landscape propos
	THE THESE PROPERTY AND ADDRESS OF THE	2000	CO4	Deriving an appropriate landscape approach based on analysis and synthesis of
			10000000	the selected area under study
			CO5	Preparation of Comprehensive Landscape Development Plan (CLDP)/Landscap
			722-73	Policy and guidelines/ Landscape Planning proposal including landscape design
			CO6	Ability to comprehensively demonstrate the landscape strategy, planning and
			-	design proposal in textual and graphic form The ability to select an appropriate research topic from the field of landscape
			CO1	architecture or allied disciplines, for the theoretical exploration related and
			345.00	supportive to the selected dissertation topic.
			222	Framing an appropriate research proposal including the relevance of the
2	Research-II	3	CO2	selected topic, the aim and objective of the research, and the the scope and
S. 1	The second in the	3		Conducting an appropriate literature and case study from primary and secondary
			CO3	sources relevant to the selected topic of research and representing the study in
				an emperical manner
				Develop an appropriate methodology and research approach (but not restricte
			CO4	to) related to the Landscape Architecture Project
			CO1	Understanding of Professional practice – Ethics, code of conduct and liabilities
				landscape architects, contracts and tenders, execution procedures, profession
				fees. Role of various bodies and organizations like COA, ISOLA, IFLA
			CO2	Ability to make Landscape working drawings with proper annotations and
	Landscape Architecture Professional			legends and understanding the universal vocabulary for this subject, Landscap
3	Practice and training			specification writing, Costing and estimation
	and the same of th		coa	Successfully undergo Professional Training (40 full days) at the end of Semeste
			CO3	Ill which invloves working in a Landsccape Architect's Firm in India or abroad to
				gain insight and exposure to the practical aspects of the field of Landscape Compilation of the work done during the professional training in the form of A
			CO4	report exhibiting the student has acquired the basic skills and knowledge with
				respect to professional practice
			1998	Understanding the evolution of landscape architecture in post-industrial world
			CO1	the concepts of park, park systems & open space structure
			CO2	Understanding changing concepts of space and the relationship of landscape
4	Theory Of Landscape Architecture-II	3	CO2	architecture illustrated through studies of selected works
	, and a compact of the contract of the	9	CO3	Familiarizing with Landscape Planning and design process in Landscape
				Architecture by studying significant examples of 20th century Landscape
			CO4	Discerning the contemporary & futuristic approaches in designed landscape
				across the world
		3 -	CO1	Understanding importance of landscape management, Landscape Managemen
				principles, framework and strategies from site level to regional level landscape
- 1			CO2	Understanding the concept of landscape management plan and role of
5	Landscape Management & Legislation		·	landscape architect with respect to the same through presentation of relevant
			CO3	Studying of the Legislative frameworks related to landscape conservation, planning and management and execution
				Demonstrating the ability to prepare landscape management framework based
			CO4	on the understanding of the legislative framework in the given context.
	Landscape Planning	2	2002000	Understanding the concept, methodology, process and theories, Concept of
				garden city and its evolution, Contemporary approaches in planning of cities,
				Understanding the importance of landscape conservation and various
				approaches to same, Conservation of historic and cultural landscapes,
				Conservation of natural resources
5				Ecological assessment and mapping of landscape with respect to biodiversity,
			CUS	soil, water etc. for understanding of ecologically sensitive sites
				Introduction to Multidisciplinary framework for regional landscape planning,
				stakeholders in landscape planning, collaborative and participatory approaches
			COA	and participatory approaches
			004	in landscape planning, various experts involved in making regularity level
			CO4	in landscape planning, various experts involved in making e-gionaly in evel plans and plans of large scale projects
			Semes	in landscape planning, various experts involved in making regularity level

1	Landscape Architecture Project		CO2	Developing Landscape design briefs along with study-frameworks to initiate a clear inquiry on the subject matter.
			CO3	studying and documenting the precedents and trends to ensure a relevant and future-ready intervention answering interrelated environmental, social, cultural, fictional and spatial issues.
		20	CO4	Selecting an appropriate site for design demonstration, conducting and a thorough contextual study including regional scale, site and surrounding and site level analysis and inferences
			CO5	Conceptualize and plan/ design representing detailed documentation of design approach, process and the outcome in the form of landscape proposal
			CO6	Presenting comprehensive drawings and report to explain the project and its details that demonstrate the student's ability to independently conceptualize and develop a landscape architectural project with a policy and/design level
2	Elective-III Interdisciplinary Courses		CO1	Ability to understand the significance of interdisciplinary studies and select an appropriate area of interest from a discipline other than architecture to be taken up for further investigation
		5	CO2	Summarize and develop a framework for further investigation in the area identified for interdisciplinary studies
		1	CO3	Present theoretical and practical understanding of the interdisciplinary subject
			CO4	Individual student's ability to link the findings from the interdisciplinary study to the field of Landscape Architecture and if possible to the the respective Landscape Architecture Project for a comprehensive outcome

