

SEMESTER-V														
S.No.	CODE	SUBJECTS	L	TS	PS	CREDITS (L+0.5TS+1 .5PS)	MSE		ESE		TA	MAR KS	Course Category	Total Periods
							Theo ry	Viva	Theo ry	Viva				
1	ARPC3111	Architectural Design-V	3	3	1	6	30	20	0	50	100	200	Professional Core (PC)	7
2	ARPC3112	History of Post Renaissance Architecture	3	0	0	3	30	0	50	0	20	100	Professional Core (PC)	3
3	ARPC3113	Building Bylaws, Codes and Practice	3	0	0	3	30	0	50	0	20	100	Professional Core (PC)	3
4	AREP3111	Building Materials & Construction Techniques-V	2	1	1	4	30	20	50	40	60	200	Essential Program Requirements (EPR)	4
5	AREP3112	Concrete Structures	3	0	0	3	30	0	50	0	20	100	Essential Program Requirements (EPR)	3
6	ARPE3111	Professional Elective-II	3	0	0	3	30	0	50	0	20	100	Professional Elective (PE)	3
7	AREP3121	Rendering and Advance Computing in Architecture	0	2	0	1	0	20	0	40	40	100	Essential Program Requirements (EPR)	2
8	ARPC3121	Working Drawing	0	2	0	1	0	20	0	40	40	100	Professional Core (PC)	2
Total			17	8	2	24					320	1000		27



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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	Architectural Design-V
3.	L-T-P Structure	3-3-1
4.	Credits/# of period	6/7
5.	Course number (Code)	ARPC3111
6.	Status (Core/Essential/Elective)	Professional Core (PC)
7.	Pre-requisites (course no./title)	Architectural Design-IV
8.	Frequency of offer	Annual
9.	Course Objectives (CO):	1. To incorporate electrical and mechanical Services. 2. To incorporate acoustics and illumination. 3. To promote computer aided drawings.
10.	Course Syllabus:	All courses learnt in this semester and in all previous semesters are subservient to Architectural Design-V course. The students shall be encouraged to incorporate their understanding of Spatial Organization, Climate Responsiveness, Building Services (Electrical and Mechanical), Acoustics, Illumination, etc. Computer aided drawings shall be promoted to improve the skills of the students. There shall be at least two design problems during this course to achieve the objectives stated hereabove. This may be done through designing the built forms emphasizing on electrical and mechanical services, acoustics and illumination, climate responsiveness, etc. The suggestive design topics may include multiple spaces viz. shopping mall, gymnasium, fitness center, apartment, higher-secondary school, senior secondary school, convention center, auditorium, marriage hall, banquet hall, trauma care center, etc. <i>The deliverables shall be in form of Portfolio/Sheets/Models/Reports/Multi-Media Presentation, etc.</i>
11.	References: -	i. Bureau of Indian Standards (BIS) code -- IS 3646 (Part 1): 1992. ii. De Chiara, J. (2001). Time-saver standards for building types. McGraw-Hill Professional Publishing. iii. Greeno, R. (2007). Building services handbook. London: Butterworth-Heinemann. iv. Indian Standard Code of Practice for Acoustical Design of Auditoriums and Conference Halls (Ninth Ed.). (December 1998). Manak Bhavan, 9 Bahadur Shah Zafar Marg New Delhi 110002: Bureau of Indian Standards. v. National Building Code (NBC), 2016, GoI. vi. Neufert, E., Neufert, P., & Kister, J. (2012). Architects' data. John Wiley & Sons.



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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	History of Post Renaissance Architecture
3.	L-T-P Structure	3-0-0
4.	Credits/# of period	3/3
5.	Course number (Code)	ARPC3112
6.	Status (Core/Essential/Elective)	Professional Core (PC)
7.	Pre-requisites (course no./title)	NIL
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To learn the evolution of Architectural styles after European Renaissance. 2. To understand the changes in architectural characteristics after Renaissance.	
10.	Course Syllabus: Unit-1: Advent of Tudor, Baroque, Rococo and Neo- Classic Architectural Style a. Principles and philosophies. b. Various styles, expressions, and evolutions. c. Case examples. Unit-2: Neo-Gothic styles and Modernism a. Principles and philosophies. b. Various styles, expressions, and evolutions. c. Case examples. Unit-3: Art-Nouveau, Expressionism and Art Deco styles a. Principles and philosophies. b. Various styles, expressions, and evolutions. c. Case examples. Unit-4: Usonian, Brutalism and Post-modernism a. Principles and philosophies. b. Various styles, expressions, and evolutions. c. Case Examples. Unit-5: The era of Deconstructivism, Neo-futurism, Parametricism and Utopian architectural styles a. Principles and philosophies. b. Various styles, expressions, and evolutions. c. Case examples. <i>The assignments may be in form of sketches, term-papers, reports, drawings, presentations, etc.</i>	
11.	References: - i. Baker, G. H. (1996). <i>Design Strategies in Architecture: An Approach to the Analysis of Form</i> . United Kingdom: Van Nostrand Reinhold. ii. Curtis, W. J. R. (1987). <i>Modern Architecture Since 1900</i> . United Kingdom: Prentice-Hall. iii. Kostof, S. (1985). <i>History of Architecture: Settings and Rituals</i> . United Kingdom: Oxford University Press. iv. Norberg-Schulz, C. (1980). <i>Meaning in Western Architecture</i> . United Kingdom: Rizzoli. v. Sir Banister Fletcher (2019). <i>Global History of Architecture</i> . United Kingdom: Bloomsbury Visual Arts. vi. Taschen. (2015). <i>Architectural Theory: From the Renaissance to the Present</i> . Germany: Taschen.	



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1.	Department proposing the course	Architecture
2.	Course Title	Building Bylaws, Codes and Practice
3.	L-T-P Structure	3-0-0
4.	Credits/# of period	3/3
5.	Course number (Code)	ARPC3113
6.	Status (Core/Essential/Elective)	Professional Core (PC)
7.	Pre-requisites (course no./title)	NIL
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To make students aware of the byelaws and regulations in Architectural practices. 2. To understand acts, regulations, controls, standards, codes, etc.	
10.	Course Syllabus: Unit-1: Introduction a. Understanding general concept of Development Control Rules in buildings and agencies enforcing them. b. Definitions need and importance of building byelaws. c. Learning various terminologies pertaining to building byelaws as per Indian standards/manuals/handbooks/codes. Unit-2: Byelaws with respect to various aspects-I a. Road width, plot size, air funnel, sky-plane, etc. b. Lighting and Ventilation. c. Parking and Site circulation. d. Acoustical Measures and HVAC. Unit-3: Byelaws with respect to various aspects-II a. Fire Safety and Fighting. b. Universal Accessibility. c. Disaster Mitigation (natural and manmade). d. Building Types. Unit-4: Development Controls and Building Approval Process a. Understanding of Development plan, Landuse map, Zoning Regulations, Aesthetic Controls, TDR, etc. b. Sub-division, Land Development Standards, Municipal Byelaws in various states. c. Steps involved in Building Approval. Unit-5: Zoning Regulations for Special Zones a. Coastal/Island Regulation Zones (CRZ). b. Industrial Area and Special Economic Zones (SEZ). c. Special Area Development Authority (SADA). d. Conservation Zone with elements of Local, State, and National importance. <i>The assignments may be in form of sketches, term-papers, reports, drawings, presentations, etc.</i>	
11.	References: - i. (n.d.). The Architects Act, 1972 - Council of Architecture. ii. "The Indian Institute of Architects." http://www.iiamumbai.com/publications.php . Accessed 26 Mar. 2021 iii. Model Building Bye Laws: Ministry of Housing and Urban Affairs iv. "ECBC User Guide - Bureau of Energy Efficiency." v. "Rights of Persons with Disabilities Act, 2016. - India Code vi. (2016, July 12). URDPFI Guidelines: Ministry of Urban Development. vii. (2018, December 14). National Building Code - Bureau of Indian Standards.	



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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	Building Materials and Construction Techniques-V
3.	L-T-P Structure	2-1-1
4.	Credits/# of period	4/4
5.	Course number (Code)	AREP3111
6.	Status (Core/Essential/Elective)	Essential Program Requirement (EPR)
7.	Pre-requisites (course no./title)	AREP2211-Building Materials and Construction Techniques-IV
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To study steel as a building material. 2. To study various building components made up of steel. 3. To understand working and construction details of steel structures.	
10.	Course Syllabus: Unit-1: Steel Truss: General a. Roof truss, span, and details. b. North light truss, etc. Unit-2: Steel Truss: Long Span a. Tubular and Monitor truss. b. Portal frames, etc. Unit-3: Multistoried steel structures and space frames a. Multistoried steel structures. b. Space frames, etc. Unit-4: Modern Construction Systems a. Modern systems. b. Truss less system of construction, etc. Unit-5: Miscellaneous a. Steel Grillage Foundation. b. Staircase, Balconies, etc. in steel. <i>The assignments may be in form of sketches, term-papers, reports, drawings, presentations, etc.</i>	
11.	References: - i. Barry, R. (1999). <i>The Construction of Buildings Vol. 2. 5th Ed.</i> New Delhi: East-West Press. ii. Foster, J. and Mitchell, S. (1963). <i>Building Construction: Elementary and Advanced, 17th Ed.</i> London: B.T. Batsford Ltd. iii. Kumar, S. (2003). <i>Building Construction. 19th Ed.</i> Delhi: Standard Publishers. iv. McKay, W. B. (2005). <i>Building Construction Metric Vol, I-IV. 4th Ed.</i> Mumbai: Orient Longman. v. Moxley, R. (1961). <i>Mitchell's Elementary Building Construction.</i> London: B. T. Batsford. vi. Punmia, B.C. and Jain, A. K. (2016). <i>Building Construction. 11th Ed.</i> New Delhi: Laxmi Publications. vii. Rangwala, S. C. (2017). <i>Engineering Materials: Material Science. 43rd Ed.</i> Anand: Charotar Publishing House Pvt. Ltd. viii. Rangwala, S. C. (2019). <i>Building Construction 33rd Ed.</i> Anand: Charotar Publishing House Pvt. Ltd.	



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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	Concrete Structures
3.	L-T-P Structure	3-0-0
4.	Credits/# of period	3/3
5.	Course number (Code)	AREP3112
6.	Status (Core/Essential/Elective)	Essential Program Requirement (EPR)
7.	Pre-requisites (course no./title)	NIL
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To design RCC structures under bending, shear, and/or axial loads. 2. To introduce the basic concepts of Pre-stressed Concrete structures.	
10.	Course Syllabus: Unit-1: Introduction to Concrete Structures a. Stress-Strain Curves. b. Working Stress Method. c. Ultimate Strength Method. d. Limit State Method. Unit -2: Design of Beams a. Singly Reinforced Beams. b. Doubly Reinforced Beams. c. Flanged Beams (T, & L Beam). Unit -3: Design of Columns and Foundations a. Columns Under Axial Compression. b. Columns under Uni-axial and Bi-axial Bending. c. Isolated Footings for Rectangular and Circular Columns. d. Combined Footings. Unit - 4: Design of Slabs & Staircase a. One Way Slabs. b. Two-Way Slabs with various boundary conditions. c. Special Reinforcement. d. Dog Legged Staircase and Open Well Staircases. Unit -5: Introduction to Special Concrete Elements a. Pre-stressed Concrete. b. RCC Cantilevered Overhangs, Covered Ways, etc. c. Continuous Slabs, Flat Slabs, Waffle Slabs, etc. d. Inverted Beams, Concealed Beams, Continuous Beams, etc. <i>The assignments may be in form of sketches, term-papers, reports, drawings, presentations, etc.</i>	
11.	References: - i. Bureau of Indian Standard. <i>Design Aids for Reinforced Concrete to IS: 456 (1978), SP16 (1980)</i> , New Delhi. ii. Bureau of Indian Standards (2000). <i>IS 456: Plain and Reinforced Concrete - Code of Practice</i> , New Delhi. iii. Design, R. C. (2003). by S. Unnikrishna Pillai and Devdas Menon. iv. Hurst, M. K. (2017). <i>Prestressed Concrete Design</i> . CRC Press. v. Neville, A. M. (1995). <i>Properties of concrete (Vol. 4)</i> . London: Longman. vi. Raju, N. K. (2006). <i>Prestressed concrete</i> . Tata McGraw-Hill Education. vii. Ramamrutham, S., & Narayan, R. (2011). <i>Design of Reinforced Concrete Structures (conforming to IS 456): Limit State Method and Working Stress Method</i> . Dhanpat Rai Pub Company.	



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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	Site Planning
3.	L-T-P Structure	3-0-0
4.	Credits/# of period	3/3
5.	Course number (Code)	ARPE3111-1
6.	Status (Core/Essential/Elective)	Professional Elective (PE) -II
7.	Pre-requisites (course no./title)	NIL
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To develop the complete understanding of a site and its surroundings in holistic manner. 2. To acquaint students with all the components and potentials of the site.	
10.	Course Syllabus: Unit-1: Introduction to Site Planning a) Site planning process and its significance. b) Assessment of potential of the site. c) Relationship of site context with the built forms. Unit-2: Site Characteristics a) Location, context, size, climate etc. b) Topography, microclimate, hydrology, etc. c) Physical features (natural and manmade). Unit-3: Site Analysis and Representations a) Site information collection and contextual analysis. b) Contour analysis and development. c) Representation tools and techniques. Unit-4: Site Design Elements a) Landscape, access, parking, circulation, etc. b) Vista, viewpoints, etc. c) Built forms; existing and proposed. Unit-5: Site Development a) Site zoning and layout design. b) Site services. c) Site design and development process. <i>The assignments may be in form of sketches, term-papers, reports, drawings, presentations, etc.</i>	
11.	References: - i. Dines, C.W.H.N.T. (2001). <i>Time saver Standards for Landscape Architecture</i> , Mc. Graw Hill. ii. Higgins, C., Beer, A. (2004). <i>Environmental Planning for Site Development: A Manual for Sustainable Local Planning and Design</i> . (n.p.): Taylor & Francis. iii. LaGro, J. A. (2013). <i>Site Analysis: Informing Context-Sensitive and Sustainable Site Planning and Design</i> . Germany: Wiley. iv. Lynch, K and Hack, G (1984) <i>Site Planning</i> , MIT PRESS. v. McHarg, I. L. (1969). <i>Design with nature</i> (pp. 7-17). New York: American Museum of Natural History. vi. Russ, T.H. (2002) <i>Site Planning and Design Handbook</i> , Mc Graw-Hill Companies. vii. Steven, S. (2004) <i>Site engineering for landscape Architects</i> , John Willey and sons Inc.	



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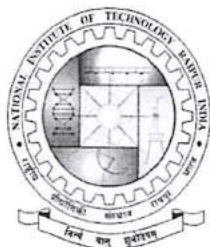
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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	Geometry in Architecture
3.	L-T-P Structure	3-0-0
4.	Credits/# of period	3/3
5.	Course number (Code)	ARPE3111-2
6.	Status (Core/Essential/Elective)	Professional Elective (PE) -II
7.	Pre-requisites (course no./title)	NIL
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To understand geometric principles that govern architectural design. 2. To develop an understanding for principles of design mathematically. 3. To interpret symbolism through mathematical logic.	
10.	Course Syllabus: Unit-1: The Hidden Order a. Arithmetic and its role. b. Geometry and its role. c. Mathematics in nature. Unit-2: Orders and their understanding-I a. Vedic principles and philosophies. Unit-3: Orders and their understanding-II a. Western principles and philosophies. Unit-4: Complex geometry and its understanding a. Classification and techniques in complex geometry. b. Spirals in nature, logarithmic, epispiral, etc. c. Algorithm and parametricism in architecture. Unit-5: Aesthetics and Visual perception a. Various principles in landscape. b. Various principles in architecture. c. Sacred geometry and divine proportions, etc. <i>The assignments may be in form of sketches, term-papers, reports, drawings, presentations, etc.</i>	
11.	References: - i. Achen, S. T. (1978). <i>Symbols Around Us</i> . United Kingdom: Van Nostrand Reinhold. ii. Argüelles, J., Argüelles, M. (1985). <i>Mandala</i> . United States: Shambhala. iii. Blackwell, W. (1984). <i>Geometry in Architecture</i> . United States: Key Curriculum Press. iv. Briggs, J. (1992). <i>Fractals: The Patterns of Chaos: a New Aesthetic of Art, Science, and Nature</i> . United Kingdom: Simon & Schuster. v. Brunés, T. (1996). <i>The Secrets of Ancient Geometry and Its Use</i> . United States: Sue Eckermann Golik. vi. Huntley, H. E. (2012). <i>The Divine Proportion</i> . United Kingdom: Dover Publications. vii. Lawlor, R. (2013). <i>The Geometry of the End of Time: Proportions Prophecy and Power</i> . Australia: Robert Lawlor. viii. Meisner, G. B. (2018). <i>The Golden Ratio: The Divine Beauty of Mathematics</i> . United States: Race Point Publishing. ix. Skinner, S. (2009). <i>Sacred Geometry: Deciphering the Code</i> . United Kingdom: Sterling.	



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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	Rendering and Advance Computing in Architecture
3.	L-T-P Structure	0-2-0
4.	Credits/# of period	1/2
5.	Course number (Code)	AREP3121
6.	Status (Core/Essential/Elective)	Essential Program Requirement (EPR)
7.	Pre-requisites (course no./title)	NIL
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To acquaint students with Realistic Perspective Views and Presentation Skills. 2. To create understanding of 3D Visualization.	
10.	Course Syllabus: Introduction to presentation tools & techniques, virtual reality, architectural presentation using various graphic/Image editing software. Students will be imparted with the skills of image editing and processing along with exposure to various mediums of presentation, making blend of two surfaces and create 3D effect drawings from 2D objects using rendering tools. Students will also be exposed to rendering tools, styles of rendering, lighting, and sciography, texturing of various materials, setting of sky condition, camera settings, editing tools, and other render settings. They will also be skilled with post-production rendering. Students will get acquainted with representation skill of plans, elevations and sections in architectural drawing as well as trained for different themes of architectural rendering techniques like monochromatic rendering, realistic rendering, etc. <i>The deliverables shall be in form of drawing portfolio/presentations based on the work done in the semester.</i>	
11.	References: - i. Bark, S. (2012). <i>An Introduction to Adobe Photoshop</i> . Ventus Publishing ApS, Sheffield. ii. Brightman M. (2013). <i>The SketchUp Workflow for Architecture: Modeling Buildings, Visualizing Design, and Creating Construction Documents with SketchUp Pro and Layout</i> . John Wiley & Sons. iii. Gindis, E. (2014). <i>Up and Running with AutoCAD 2015: 2D & 3D Drawing and Modelling</i> . Oxford: Elsevier. iv. Smith, B. L. (2007). <i>3ds Max 2008 Architectural Visualization Beginner to Intermediate</i> . Sarasota: 3DATS. v. Tal D. (2013). <i>Rendering in SketchUp: From Modeling to Presentation for Architecture, Landscape Architecture and Interior Design</i> . John Wiley & Sons.	



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B.Arch. Syllabus
Semester - V

1.	Department proposing the course	Architecture
2.	Course Title	Working Drawing
3.	L-T-P Structure	0-2-0
4.	Credits/# of period	1/2
5.	Course number (Code)	ARPC3121
6.	Status (Core/Essential/Elective)	Professional Core (PC)
7.	Pre-requisites (course no./title)	NIL
8.	Frequency of offer	Annual
9.	Course Objectives (CO): 1. To enable students to prepare the drawings for approval by the Authority. 2. To train the students about detailing, labeling, symbols, dimensions, notations, etc. 3. To acquaint students with the essential components of Good for Construction (GFC).	
10.	Course Syllabus: Any small-scale Architectural Design project such as Bungalow, Farmhouse, Office cum Residence, etc., shall be taken up to explain and make students prepare their Good for Construction (GFC) drawings. The detailing can be done for the building's framed structure but detailing for the same building in case of a load-bearing structure shall also be discussed. The drawings to be prepared for any of the above project shall be as mentioned below: The focus shall be on Submission Drawings, Building Layout Drawings, Architectural Drawings, Structural Drawings, and different Schedules. The students shall also be informed about the layout of drawing blocks and title blocks, drawing registers, folding, and filing of drawing sheets, setting-up the building layouts, etc. The submission/corporation drawings should be prepared for acquiring necessary approvals. The Architectural drawings should include Architectural floor plans, Site plans, Terrace plans, Sections, Elevations, etc. Different architectural schedules may include opening schedules, flooring schedules, finishing schedules, etc. Miscellaneous Architectural Details may consist of Staircase, Kitchens, Toilets, Ramps, Balconies, Railings, Handrails, Landscape, Building Envelopes, etc. The Structural drawings for sub-structure and super-structure should incorporate details of Foundations, Columns, Beams, Slabs, etc. The detailing of various other building components like the staircase, boundary wall, parapet wall, jali works, etc., may also be prepared as per the design. <i>The deliverables shall be in form of portfolio/report comprising all the drawings prepared in the semester.</i>	
11.	References: - i. Joe, B. (Ed). (2002). Details in Architecture: Vol. I-V. Victoria: The Images Publishing group. ii. RIBA Working Drawings Handbook, Keith Styles, 2014, 1893 (Part 1). iii. Weston, R. (2004). Plans Sections Elevations – Key buildings of the twentieth century. London: Laurence King Publishing.	