FIFTH YEAR TENTH SEMESTER 1. Thesis Project II (211011)

. No.	Subject Code	Subject Name	Catego									CT HRS			Periods per week		Mode of Teaching	
	Coue		ry		Theory	eory Slot			Practical Slot			пкэ			week	ts	(Offline/	
				-	l Term luation		nuous ation	End Sem.		nuous ation			L	Т	Р		Online)	
				End Sem.	Proficienc y in subject/ course	Mid Sem.	Quiz/ Assign ment /Session al		Lab work & Sessional	Skill based mini project								
1.	211011	Thesis Project	DC- 19	-	-	-	-	250	400	-	650	18	-	-	18*(1.5)	27	Blended **(14/4)	

2. Professional Development (211002)

. No.	Subject Code	Subject Name	Catego		Maximum Marks Allotted Total CT Contact Periods per Mark HRS week									Mode of Teachin				
	Coue		ry		Theory Slot			Practical Slot			s	пкэ			WEEK	ts	g	
					l Term luation		nuous lation	End Sem.		nuous ation			L	Т	Р		(Offline/ Online)	
				End Sem	Proficienc y in subject/ course	Mid Sem.	Quiz/ Assign ment /Session al		Lab work & Sessional	based								
2.	211002	Professional Development	SEC - 12	-	-	-	-	20	30	-	50	2	-	-	2	1	Offline	SO

3. Elective VIII

. No.	Subject	Subject Name	Catego		Maximum Marks Allotted Total CT Contact Periods p Mark HRS week								Mode of Teachin					
	Code		ry		Theory	Slot]	Practical S	lot	s s	нкз	s week			ts	g	
					l Term luation		nuous ation	End Sem.	Evalu	nuous ation			L	т	•		(Offline/ Online)	
				End Sem	Proficienc y in subject/ course	Mid Sem.	Quiz/ Assign ment /Session al		Lab work & Sessional	Skill based mini project								
3.	-	ELECTIVE - VIII	DE- 8	50	-	30	20	-	-	-	100	3	2	1 -		3	Blended * (2/1)	

(i) Adaptive Reuse and Sustainable Retrofitting (211011)

Objective - Students will acquire a comprehensive understanding of sustainable design principles, practical skills in retrofitting existing structures, and the ability to creatively adapt spaces, preparing them for careers in architecture, urban design, and conservation.

Unit 1: Introduction to Adaptive Reuse

Introduction to adaptive reuse in architecture. Principles and benefits of adaptive reuse in sustainable design, Understanding Adaptive Reuse.

Unit 2: Assessment and Site Analysis for Retrofitting

Methods for site evaluation and analysis for retrofitting projects. Identification of opportunities and constraints in retrofitting existing structures. Site Assessment for Retrofitting.

Unit 3: Sustainable Retrofitting Techniques

Strategies and technologies for energy-efficient retrofitting. Sustainable materials and innovative technologies in retrofitting projects. Techniques for Sustainable Retrofitting.

Unit 4: Design Considerations in Adaptive Reuse

Design considerations and challenges in adapting existing structures. Balancing preservation with modern functionality in adaptive reuse projects. Design Principles in Adaptive Reuse.

Unit 5: Case Studies and Project Implementation

Analysis of successful adaptive reuse and retrofitting projects. Development and presentation of a sustainable retrofitting proposal. Case Studies and Project Implementation.

		(COs & LOs for Adaptive Reuse and Sustainable Retrofitting
Sustair		which ca	o obtain knowledge of fundamental concepts and theories of Adaptive reuse of old or heritage buildings and an be applied in historic buildings. Implement sustainable retrofitting strategies to transform existing spaces.
	C 1 1 1	LO1	Recall and explain the concept and benefits of adaptive reuse in architecture.
	Students will comprehend the	LO2	Understand the significance of adaptive reuse in achieving sustainability in architectural design.
	principles and	LO3	Apply principles of adaptive reuse to analyze potential opportunities in existing structures.
CO1	significance of adaptive reuse in sustainable	LO4	Analyze and compare the environmental benefits of adaptive reuse compared to new construction.
	architectural design.	LO5	Create preliminary design concepts demonstrating the potential for adaptive reuse in a given context.
	Students will be able to	LO1	Recall and list methods used for site evaluation and analysis in retrofitting projects.
	analyze and assess existing structures for	LO2	Understand the importance of thorough site assessment in identifying opportunities for retrofitting.
CO2	retrofitting opportunities, identifying constraints	LO3	Apply site analysis techniques to evaluate a given structure for potential retrofitting opportunities.
		LO4	Analyze the constraints and challenges associated with retrofitting existing structures.
	and possibilities.	LO5	Create a site assessment report highlighting opportunities and constraints for retrofitting.
	Students will evaluate	LO1	Recall and describe sustainable retrofitting techniques and technologies.
	and apply sustainable	LO2	Understand the principles behind energy-efficient retrofitting strategies.
CO3	retrofitting techniques	LO3	Apply sustainable retrofitting techniques to propose energy-efficient design solutions.
COS	and technologies for energy-efficient design	LO4	Analyze the effectiveness of different sustainable materials and technologies in retrofitting projects.
	solutions.	LO5	Create a sustainable retrofitting plan integrating innovative technologies and materials.
	Students will	LO1	Recall and list design considerations and challenges in adapting existing structures.
	demonstrate the ability to integrate preservation	LO2	Understand the balance between preservation and modern functionality in adaptive reuse projects.
CO4	principles with modern	LO3	Apply preservation principles to propose design solutions for adaptive reuse projects.
	functionality in design	LO4	Analyze the architectural integrity of existing structures and its implications in adaptive reuse.
	considerations for adaptive reuse.	LO5	Create design concepts that harmonize preservation with contemporary design needs.
	Students will present	LO1	Recall and summarize key features of successful adaptive reuse and retrofitting projects.
	and propose a	LO2	Understand the factors contributing to the success of sustainable retrofitting projects.
007	sustainable retrofitting	LO3	Apply lessons from case studies to develop a sustainable retrofitting proposal.
CO5	project, synthesizing the principles learned into a	LO4	Analyze and evaluate the environmental and economic impacts of implemented retrofitting projects.
	comprehensive proposal.	LO5	Create and present a comprehensive sustainable retrofitting proposal for an existing structure.

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- Heerwagen, J., & Loveland, J. (2014). Adaptive Strategies for Waterfront Structures: Buildings, Infrastructure, and Urban Sites. W. W. Norton & Company.

- 3. Roodman, D. M. (2017). Sustainable Retrofit and Facilities Management. Routledge.
- 4. Schmidt, M., & Zundel, M. (2018). Adaptive Reuse: Extending the Lives of Buildings. Birkhäuser.
- 5. Smith, P. A. (2018). Sustainable Retrofitting of Commercial Buildings: Cool Climates. Routledge.
- 6. Steemers, K., & Yannas, S. (2012). Architecture and Environmental Engineering: Approaches for Energy and Environmental Studies in Building Design. Routledge.
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(ii) Cultural Architecture and Identity (211012)

Objective - Students will acquire a comprehensive understanding of Cultural Identity and importance of Architecture and analyze the influence of cultural identity on architectural forms and styles. also they will be able to apply cultural elements creatively in architectural design to reflect and respect diverse cultural identities.

Unit 1: Understanding Cultural Identity in Architecture

Introduction to Cultural Identity. Exploration of cultural identity and its significance in architectural design. Influence of cultural factors on architectural styles and elements

Unit 2: Vernacular Architecture and Indigenous Building Techniques

Study of Vernacular Architecture. Examination of indigenous building techniques and materials. Analysis of how local culture influences architectural forms and functions

Unit 3: Preservation and Conservation of Cultural Heritage

Heritage Conservation Principles. Principles and methodologies of preserving cultural heritage sites and structures. Importance of adaptive reuse and restoration in maintaining cultural identity

Unit 4: Modern Architecture and Cultural Context

Modern Architectural Movements and Cultural Context. Examination of how modern architectural movements integrate or contrast with cultural identity. Analysis of contemporary design's role in preserving or altering cultural identity

Unit 5: Cultural Expression through Contemporary Architecture

Contemporary Cultural Architecture. Exploration of contemporary architectural expressions reflecting cultural identity. Examination of diverse approaches to integrating cultural elements in modern designs

			COs & LOs for Cultural Architecture and Identity
	Il Course Outcome: The course flecting cultural identities.	se aims t	o obtain knowledge of Integrating diverse cultural elements into architectural designs, preserving
	Students will	LO1	Recall and describe the significance of cultural identity in architectural design.
	comprehend the	LO2	Understand how cultural factors influence architectural styles and elements.
	significance of cultural	LO3	Apply knowledge of cultural identity to analyze architectural designs in different cultural contexts.
CO1	identity in architectural	LO4	Analyze and compare the influence of culture on various architectural styles.
	design, recognizing its influence on architectural	LO5	Develop design concepts that integrate cultural identity elements into architectural projects.
	styles and elements.		
		LO1	Recall and list various indigenous building techniques and materials used in vernacular architecture.
	Students will analyze and differentiate indigenous	LO2	Understand the relationship between local culture and architectural forms in vernacular architecture.
CO2	building techniques and materials, understanding	LO3	Apply knowledge of indigenous building techniques to propose sustainable design solutions for contemporary architectural projects.
	their role in shaping architectural forms.	LO4	Analyze and compare the influences of different cultural elements on the design and construction of vernacular buildings.
		LO5	Create design proposals that incorporate indigenous building techniques, respecting and reflecting cultural traditions.
CO3	Students will evaluate	LO1	Recall and summarize the principles of preserving cultural heritage sites and structures.
COS	and apply principles and	LO2	Understand the importance of adaptive reuse and restoration in maintaining cultural identity in

	methodologies of		architectural conservation.
	preserving cultural heritage, advocating for	LO3	Apply preservation methodologies to propose restoration strategies for a specific cultural heritage site.
	adaptive reuse.	LO4	Analyze the ethical dilemmas and challenges in balancing modern needs with preserving cultural heritage in architecture.
			Develop preservation plans that integrate modern functionality while respecting the cultural significance of heritage structures.
		LO1	Recall and identify key modern architectural movements and their relation to cultural contexts.
	Students will assess and	LO2	Understand how cultural contexts influence the evolution of architectural styles in modernity.
CO4	critique the relationship between modern	LO3	Apply knowledge of modern architectural movements to analyze their impact on preserving or altering cultural identity.
CO4	architectural movements and cultural context, analyzing their impact on	LO4	Analyze and compare the ways modern architecture reflects or challenges cultural norms and identities.
	cultural identity.	LO5	Create design proposals that harmoniously blend modern architectural elements with cultural context.
		LO1	Recall and list contemporary architectural expressions reflecting cultural identity.
	Students will demonstrate the ability to integrate	LO2	Understand the diverse approaches used to integrate cultural elements into modern architectural designs.
CO5	cultural elements into contemporary architectura	LO3	Apply various design approaches to propose innovative architectural solutions rooted in cultural identity.
	designs, reflecting an understanding of diverse cultural expressions in	LO4	Analyze and critique the effectiveness of different strategies for integrating cultural elements in contemporary designs.
	modern architecture.	LO5	Create original design concepts that authentically represent cultural identity in contemporary architectural projects.

References:

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- 2. Kostof, S. (1999). The City Shaped: Urban Patterns and Meanings Through History. Bulfinch Press.
- 3. Kubler, G. (1982). The Shape of Time: Remarks on the History of Things. Yale University Press.
- 4. Morris, A. E. J. (1995). History of Urban Form: Before the Industrial Revolutions. Wiley-Blackwell.
- 5. Pile, J. F. (2018). A History of Interior Design. Laurence King Publishing.
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- 7. Alsayyad, N., & Mejia-Hernandez, J. (Eds.). (2011). Transnationalism in Architecture. Routledge India.

(iii) Social Impact Design and Community Engagement (211013)

Objective - Students will acquire a comprehensive understanding of Social Impact Design and analyze the influence of community on overall design. Also they will be able to apply Community Engagement creatively in urban design to reflect and respect diverse communities.

Unit 1: Introduction to Social Impact Design

Understanding Social Impact Design. Definition and significance of social impact design in architecture. Historical context and evolution of community-engaged design practices. Case studies showcasing successful social impact design projects

Unit 2: Community Engagement Methods and Tools

Methods for Community Engagement. Techniques for effective community engagement in design processes. Participatory design methods and tools for involving stakeholders. Ethical considerations and challenges in community-engaged design

Unit 3: Social Impact Assessment in Design

Assessing Social Impact in Architecture. Principles of assessing social impact in architectural projects. Tools and frameworks for evaluating the social outcomes of designs. Case studies illustrating successful social impact assessments

Unit 4: Designing for Social Change

Design Strategies for Social Change. Strategies for integrating community needs into design solutions. Implementing inclusive design principles for diverse communities. Addressing social inequalities through architectural interventions

Unit 5: Implementation and Project Showcase

Implementation of Social Impact Design. Project planning and execution for social impact initiatives. Showcasing successful projects and their impact on communities. Reflection on the role of architects in fostering social change through design

		CO	s & LOs for Social Impact Design and Community Engagement
	Overall Course Outcome: T		rse aims to obtain knowledge of Developing inclusive design strategies that positively impact nunities through collaborative engagement and ethical practices.
		LO1	Recall and summarize key historical milestones and influential movements in social impact design within architecture.
	Students will be able to critically appraise and	LO2	Explain the evolution of social impact design, analyzing its shifts and influences over different architectural eras.
CO1	defend the significance of social impact design in	LO3	Apply historical knowledge to demonstrate how social impact design has evolved and contributed to addressing specific societal challenges.
	architecture, evaluating its historical context and evolution.	LO4	Break down and categorize the elements that have led to the success or failure of significant social impact design initiatives.
		LO5	Develop a persuasive argument defending the importance of social impact design in modern architecture, integrating historical evidence to support the argument.
	Students will be able to synthesize and design	LO1	Memorize ethical considerations and principles that guide architects in engaging with diverse stakeholders.
	comprehensive community engagement	LO2	Describe the impact of different participatory methods on stakeholder involvement and collaboration in architectural projects.
CO2	strategies using participatory methods and	LO3	Apply various participatory methods to create a community engagement plan for a hypothetical architectural project.
	ethical considerations, ensuring effective collaboration.	LO4	Analyze and evaluate the effectiveness of different community engagement methods in achieving stakeholder collaboration and inclusivity.
		LO5	Design a comprehensive and adaptable community engagement strategy integrating multiple participatory methods for a real-world architectural project.
		LO1	Recall and list different assessment tools commonly used to measure social impact in architectural designs.
	Students will be able to evaluate and appraise	LO2	Explain the significance of assessing social impact in architectural designs, elucidating its importance in addressing community needs.
CO3	the social impact of architectural designs using	LO3	Apply different assessment tools to evaluate the potential social impact of proposed architectural designs.
	appropriate assessment tools and frameworks.	LO4	Analyze and interpret the data collected from social impact assessments to determine the potential effects of design interventions.
		LO5	Develop a comprehensive social impact assessment plan for a proposed architectural design project, integrating multiple assessment tools and frameworks.
	Students will be able to	LO1	Recall and list key principles of inclusive design relevant to addressing social inequalities in architectural projects.
	create and propose innovative architectural	LO2	Explain the relationship between architectural design and social inequalities, demonstrating how design interventions can address these disparities.
CO4	design strategies that address social inequalities,	LO3	Apply inclusive design principles to propose architectural solutions that aim to address specific social inequalities within communities.
	utilizing inclusive design principles.	LO4	Analyze and evaluate the potential impact of proposed architectural designs on reducing social inequalities within communities.
		LO5	Create innovative architectural design proposals that prioritize addressing social inequalities, integrating inclusive design principles and considering diverse community needs.
	Students will be able to	LO1	Recall and list key elements of successful architectural projects that positively impact communities.
	demonstrate, analyze,	LO2	Explain the role of architects in fostering social change through design interventions, illustrating their impact on communities.
CO5	and present successful architectural projects showcasing their positive	LO3	Apply reflective practices to analyze the impact of architectural projects on communities, considering diverse perspectives and stakeholders.
	impact on communities.	LO4	Analyze and evaluate the long-term effects of successful architectural projects on the social fabric and well-being of communities.

	owcasing the positive impact of architectural projects on perspectives and stakeholders' feedback.
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- 2. Brown, T. (2009). Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation. HarperCollins.
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