AMRITA SCHOOL OF ARCHITECTURE

BACHELOR OF DESIGN (Interior Design)
CURRICULUM 2025

GENERAL INFORMATION

Abbreviations

L	-	Lecture
T	-	Tutorial
PO	-	Program Outcome
PSO	-	Program Specific Outcome
CO	-	Course Outcome
C	-	Credit
P	-	Practical
PC	-	Professional Core
BSAE	-	Building Sciences & Applied Engineering
PE	-	Professional Elective
OE	-	Open Elective
PAEC	-	Professional Ability Enhancement Course
SEC	-	Skill-enhancement Course
VAC	-	Value-added Course

Course Outcome (CO) – Statements that describe what students are expected to know and are able to do at the end of each course. These relate to the skills, knowledge and behaviour that students acquire in their progress through the course.

Program Outcomes (PO) – Statements that describe what students are expected to know and be able to do upon graduating from the program. These relate to the skills, knowledge, attitude and behaviour that students acquire through the program.

Program Outcomes for B.Des. - Interior Design

PO1 **Domain-Specific Knowledge** - Apply design principles, spatial planning strategies, and technical knowledge to develop creative, functional, and sustainable interior environments using appropriate tools, materials, and technologies.

PO2 **Contextual and Regional Understanding** - understand and respond to regional diversities, vernacular traditions and indigenous practices, especially drawing from Indian Knowledge Systems.

PO3 **Professional Practice & Management** - Demonstrate effective communication, ethical conduct, and leadership in professional practice by collaborating with multidisciplinary teams, managing project execution, and addressing client and contextual needs with responsibility and efficiency.

PO4 **Sustainable and Humane Design** - evaluate and apply sustainable practices, technological advancements and ecological principles with a critical understanding of their socio-cultural and ethical implications.

PO5 **Interdisciplinary Integration** - Integrate knowledge from diverse disciplines such as architecture, art, environmental studies, materials science, behavioral sciences, building services, and emerging technologies to create interior environments that are contextually appropriate, functionally efficient, technologically sound, and responsive to contemporary societal and environmental challenges.

PO6 **Critical and Reflective Thinking** - apply critical inquiry, philosophical reasoning and reflective thinking to question conventional norms and develop a deeper understanding of architecture and demonstrate the ability to identify, analyse and solve complex design problems with informed judgment and creativity.

PO7 **Ethical Responsibility and Compassion** - embody ethical awareness, compassion and social responsibility in all design decisions, contributing to inclusive, equitable and just environments.

PO8 **Communication, Collaboration and Teamwork** - communicate ideas effectively through multiple mediums and work collaboratively and respectfully in multidisciplinary teams to co-create innovative and contextually responsive design solutions.

PO9 **Lifelong and Independent Learning** - cultivate habits of self-directed, lifelong learning and develop the capacity to learn continuously through curiosity, experimentation and exploration.

PO10 **Vision for the Future** - develop a forward-looking vision for architecture that balances tradition, innovation and cutting-edge technology, rooted in compassion, sustainability and human well-being.

PO11 **Research and Evidence-Based Design Practice** - Engage in systematic inquiry and apply qualitative and quantitative research methods to inform interior design decisions, assess performance, enhance user experience, and contribute to the growing body of knowledge in the field.

Program-Specific Outcomes

PSO1. Culturally Rooted Spatial Solutions
Create interior spaces that are contextually appropriate, culturally sensitive and inspired by Indian craft traditions, regional aesthetics and local materials, blending tradition with innovation.

PSO2. Technical Proficiency
Demonstrate advanced skill in interior detailing, furniture design, lighting, and material applications, while integrating digital tools (e.g., CAD, BIM, 3D visualization) and traditional craftsmanship.

PSO3. Ethical, Sustainable and Future-Ready Practice
Deliver spatial solutions that are humane, ecologically sustainable, ethically sound, and adaptable to future lifestyles, user needs and technological advancements, while being equipped with the professional skills, industry awareness, and readiness required to work effectively in the interior design industry.

Mapping of Courses with Program-Specific Outcomes

PSO 1
1. History & Culture – I
2. Art Appreciation
3. Interior Design Studio – I
4. History of Interior Design
5. Interior Design Studio – IV

PSO 2
1. Foundation Design Studio – I
2. Foundation Design Studio – II
3. Building Materials & Technology - I
4. Structural Systems in Design - I
5. Interior Materials & Technology
6. Integrated Building Systems for Interiors - I
7. Furniture Design
8. Working Drawing
9. Interior Landscape
10. Integrated Building Systems for Interiors- II

PSO 3
1. History & Culture - II
2. Environmental Psychology in Interior Design
3. Interior Design Studio – II
4. Interior Design Studio – III
5. Principles of Environmental Design
6. Research in Design
7. Design Entrepreneurship
8. Design Management & Professional Practice
9. Design Thesis

Professional Electives Themes

A. Design Technology & Innovation

- Parametric & Computational Design
- Building Information Modeling (BIM) for Designers
- Advanced Materials & Digital Fabrication
- Immersive Technologies for Space Visualization

B. Theory, Communication and Interdisciplinary Design

- Product Design
- Design Journalism
- AI & Emerging Technologies in Design

C. Practice, Management & Professional Readiness

- Retail and Visual Merchandising in Interiors
- Lighting Design
- Project Management for Interiors

SEMESTER I

S.No.	Cat.	Code	Title	L T P	Credit
1	PC	25ARC101	Foundation Design Studio – I	2-4-16	14
2	PC	25ARC102	History & Culture - I	2-0-0	2
3	PC	25ARC103	Art Appreciation	2-0-0	2
4	VAC	22ADM101	Foundations of Indian Heritage	2-0-1	2
5	VAC	22AVP103	Mastery Over Mind	1-0-2	2
			TOTAL	31	22

SEMESTER II

S.No.	Cat.	Code	Title	L T P	Credit
1	PC	25ARC111	Foundation Design Studio – II	2-4-16	14
2	BSAE	25ARC112	Building Materials & Technology - I	1-0-2	2
3	PC	25ARC113	History & Culture - II	2-0-0	2
4	BSAE	25ARC114	Structural Systems in Design - I	1-1-0	2
5	VAC	22ADM111	Glimpses of Glorious India	2-0-1	2
			TOTAL	31	22

SEMESTER III

S.No.	Cat.	Code	Title	L T P	Credit
1	PC	25BID201	Interior Design Studio – I	2-4-16	14
2	BSAE	25BID202	Interior Materials & Technology	3-0-2	4
3	PC	25BID203	History of Interior Design	2-0-0	2
4	PC	25BID204	Environmental Psychology in Interior Design	2-0-0	2
5	VAC		Amrita Value Programme I	1-0-0	1
			TOTAL	32	23

SEMESTER IV

S.No.	Cat.	Code	Title	L T P	Credit
1	PC	25BID211	Interior Design Studio – II	2-4-16	14
2	BSAE	25BID212	Integrated Building Systems for Interiors - I	3-0-2	4
3	PAEC	25BID213	Furniture Design	1-0-2	2
4	PE		Elective - I	1-1-0	2
5	VAC	22ADM201	Strategic Lessons from Mahabharata	1-0-0	1
			TOTAL	33	23

SEMESTER V

S.No.	Cat.	Code	Title	L T P	Credit
1	PC	25BID301	Interior Design Studio – III	2-4-16	14
2	BSAE	25BID302	Working Drawing	2-0-4	4
3	BSAE	25ARC204	Principles of Environmental Design	2-0-0	2
4	PC	25BID304	Interior Landscape	1-1-0	2
5	PE		Elective – II	1-1-0	2
			TOTAL	34	24

SEMESTER VI

S.No.	Cat.	Code	Title	L T P	Credit
1	PAEC	25BID399	Professional Training	-	20
			TOTAL	-	20

SEMESTER VII

S.No.	Cat.	Code	Title	L T P	Credit
1	PC	25BID401	Interior Design Studio - IV	2-4-16	14
2	BSAE	25BID402	Integrated Building Systems for Interiors- II	2-1-2	4
3	PAEC	25BID403	Research in Design	1-1-0	2
4	PE		Elective – III	1-1-0	2
5	OE		Elective – IV	1-1-0	2
			TOTAL	35	24

SEMESTER VIII

S.No.	Cat.	Code	Title	L T P	Credit
1	PC	25BID411	Design Thesis	2-4-16	14
2	SEC	25ARC504	Design Entrepreneurship	1-1-0	2
3	PAEC	25BID412	Design Management & Professional Practice	1-1-0	2
4	OE		Elective – V	1-1-0	2
			TOTAL	28	**20**

TOTAL CREDITS	**178**

Elective - I

Course Code	Title	L-T-P	Cr
25BID231	Parametric & Computational Design	1-1-0	2
25BID232	Retail and Visual Merchandising in Interiors	1-1-0	2
25BID233	Product Design	1-1-0	2

Elective - II

Course Code	Title	L-T-P	Cr
25BID331	Building Information Modelling (BIM) for Designer	1-1-0	2
25BID332	Lighting Design	1-1-0	2
25BID333	AI & Emerging Technologies in Design	1-1-0	2

Elective - III

Course Code	Title	L-T-P	Cr
25BID431	Project Management for Interiors	1-1-0	2
25BID432	Design Journalism	1-1-0	2
25BID433	Advanced Materials and Digital Fabrication	1-1-0	2
25BID434	Immersive Technologies for Space Visualization	1-1-0	2

[Course Code]	**Elective - IV**	L-T-P	1-1-0
	Open Elective		

[Course Code]	**Elective - V**	L-T-P	1-1-0
	Open Elective		

AMRITA VALUE PROGRAMMES FOR UG PROGRAMMES

Course Code	Title	L-T-P	Credits
22ADM201	Strategic Lessons from Mahabharata	1-0-0	1
22ADM211	Leadership from Ramayana	1-0-0	1
22AVP210	Kerala Mural Art and Painting	1-0-0	1
22AVP201	Amma's Life and Message to the modern world	1-0-0	1
22AVP204	Lessons from the Upanishads	1-0-0	1
22AVP205	Message of the Bhagavad Gita	1-0-0	1
22AVP206	Life and Message of Swami Vivekananda	1-0-0	1
22AVP207	Life and Teachings of Spiritual Masters of India	1-0-0	1
22AVP208	Insights into Indian Arts and Literature	1-0-0	1
22AVP213	Traditional Fine Arts of India	1-0-0	1
22AVP214	Principles of Worship in India	1-0-0	1
22AVP215	Temple Mural Arts in Kerala	1-0-0	1
22AVP218	Insights into Indian Classical Music	1-0-0	1
22AVP219	Insights into Traditional Indian Painting	1-0-0	1
22AVP220	Insights into Indian Classical Dance	1-0-0	1
22AVP221	Indian Martial Arts and Self Defence	1-0-0	1
22AVP209	Yoga and Meditation	1-0-0	1

SYLLABUS

SEMESTER 1
(FOUNDATION STUDIO)

25ARC101	**Foundation Design Studio – I**	L – T – P	2-4-16

Course Objectives

- To develop fundamental skills in visual representation
- To nurture material exploration and model-making abilities
- To provide a conceptual foundation in design theory
- To initiate critical thinking through basic design exercises
- To develop clarity in design thinking through writing and verbal articulation

Course Outcomes

After completing this course, students will be able to:

CO1 : Demonstrate the ability to observe, analyse and express form, space and structure through various modes of visual communication such as freehand sketching and orthographic drawing.

CO2 : Apply hands-on skills in material handling and model-making to explore spatial relationships, form, structure, and scale using a range of basic materials and techniques.

CO3 : Illustrate an understanding of foundational design principles, elements of design and theories that influence spatial perception and aesthetics, fostering an informed design sensibility.

CO4 : Engage in iterative design processes to solve introductory design problems, reflecting an understanding of abstraction, composition, spatial logic and user-centred design.

CO5 : Effectively communicate ideas and reflections through structured writing and verbal presentations

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	2	–	1	2	3	–	3	2	–	–	2	3	–
CO2	3	1	–	2	2	2	–	2	2	–	–	2	3	2
CO3	3	3	–	2	3	3	2	2	2	–	–	3	2	2
CO4	3	2	–	2	3	3	2	3	2	2	–	3	2	2
CO5	2	–	2	–	1	2	1	3	3	–	–	2	–	1

Module 1: Visual Representation

Freehand sketching; introduction to drawing and work culture; scale (metric and imperial); plane geometry; orthographic projections and solid geometry; surface development; visual communication techniques; objects and their assembly

Module 2: Material Exploration

Working with different architectural materials such as paper, plaster, clay, fabric etc.; studio work culture; assembly techniques; tools

Module 3: Theory of Design

Elements of design; principles of design; colour theory; nature as a primary reference in design; introduction to design

Module 4: Basic Design
Exploration of 2D and 3D compositions; application of colour theory; space illustrations and creative expression; designs in nature

Module 5: Writing
Descriptive writing, reflective writing, building a design vocabulary, introduction to verbal presentations

Reading Material

1. *Francis D.K. Ching, Architectural Graphics, Sixth Edition, John Wiley & Sons, 2015*
2. *Arthur L. Guptill, Rendering in Pen and Ink, Watson Guptill Publications, 1983*
3. *Paolo Belardi, Why Architects Still Draw, The MIT Press, 2014*
4. *Yatin Pandya, Elements of Space Making, Mapin Publishing Pvt. Ltd., 2007*
5. *Francis D.K. Ching, Architecture - Form, Space, and Order, John Wiley & Sons, 1979*
6. *David W. Orr, The Nature of Design: Ecology, Culture, and Human Intention, Oxford University Press, 2002*
7. *Rudolf Arnheim, Visual Thinking, University of California Press, 1969*
8. *Kimberly Elam, Geometry of Design: Studies in Proportion and Composition, Princeton Architectural Press, 2001*
9. *Francis D.K. Ching & Steven P. Juroszek, Design Drawing, Second Edition, John Wiley & Sons, 2010*
10. *Don Norman, The Psychology of Everyday Things, Basic Books, 1988*
11. *Matthew Frederick, 101 Things I Learned in Architecture School, The MIT Press, 2007*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25ARC102	**History & Culture – I**	L– T – P	2 – 0 – 0

Course Objectives

- To develop an understanding of culture as a critical driver in shaping the built environment
- To provide a comprehensive understanding of the key knowledge systems, cultural movements, and sociological changes that have influenced design styles across different civilizations.
- To understand the relationship between human beings and nature throughout history and how it has shaped design practices.
- To introduce students to the historical evolution of architecture and interior spaces across civilizations

Course Outcomes

After completing this course, students will be able to:

CO1 : Demonstrate an understanding of how worldviews, rituals, traditions, crafts and cultural practices manifest in architecture, spatial organization and interior environments.

CO2 : Identify and interpret key knowledge systems, philosophical ideas, cultural movements and sociological shifts that have shaped design expressions, styles and construction practices across civilizations.

CO3 : Demonstrate an understanding of the evolving relationship between human societies and nature, and how this interplay has influenced design features.

CO4 : Describe the major architectural and interior design developments across global civilizations, recognizing stylistic features, construction techniques, spatial typologies, and the socio-political contexts in which they emerged.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	–	2	2	3	3	2	1	–	–	3	–	2
CO2	3	3	–	1	3	3	2	1	1	–	2	3	–	2
CO3	2	2	–	3	3	2	2	–	1	–	2	2	–	3
CO4	3	2	–	2	3	3	1	2	1	–	2	3	–	2

Module 1: Self and the Ancestry

Introduction to the idea of personal identity in design; how ancestry, culture, and geography shape design thinking; overview of regional architecture: influences of climate, materials, and history; guide to researching family history and genealogy; identification of regional design styles; reflection on how personal history and ancestry have shaped one's perception of design.

Module 2: Origins of Design Thinking

Introduction to human evolution and its relevance to design thinking; cognitive revolution; agricultural revolution; early human settlements and their evolution.

Module 3: Relationship between Human and Nature

Evolving relationship between human beings and nature through architecture; early sustainable design principles inspired by nature; exploration of ancient buildings designed with natural elements.

Module 4: Chronology of Architecture

Evolution of architecture across civilizations; influence of religion, politics, and cultural synthesis on Indian architecture; exploration of key architectural periods in India and rest of the world

Reading Material

1. *Yuval Noah Harari, Sapiens: A Brief History of Humankind, Harper, 2014*
2. *Spiro Kostof, A History of Architecture: Settings and Rituals, Oxford University Press, 1985*
3. *Patrick Nuttgens, The Story of Architecture, Phaidon Press Ltd., 1983*
4. *Takeo Kamiya, The Guide to the Architecture of the Indian Subcontinent, Architecture Autonomous, 2003*
5. *Christopher Alexander, The Timeless Way of Building, Oxford University Press, 1979*
6. *Francis D.K. Ching, Mark Jarzombek, and Vikramaditya Prakash, A Global History of Architecture, John Wiley & Sons, 2007*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

25ARC103	Art Appreciation	L – T – P	2 – 0 – 0

Course Objectives

- To introduce students to the philosophical and aesthetic foundations of Indian art and its inter-disciplinary nature.
- To provide students with historical insights into the emergence of art in ancient India and its connection to texts, rituals and performance.
- To familiarize students with the diverse sculptural and painting traditions of India and their role in shaping regional and cultural identities.
- To develop an appreciation for modern and contemporary aesthetic discourses in Indian and Western art

Course Outcomes

After completing this course, students will be able to:

CO1 : Demonstrate an understanding of the core aesthetic concepts and philosophical frameworks that inform Indian art

CO2 : Identify key features and cultural significance of prehistoric, proto-historic, and early classical Indian art

CO3 : Analyse the formal, material and narrative aspects of Indian sculpture and painting traditions, ranging from ancient cave murals to classical and vernacular regional forms, recognizing their contextual, stylistic and symbolic dimensions.

CO4 : Compare and critique key ideas of modern Indian aestheticians and western art philosophers and articulate how contemporary and cross-cultural discourses influence aesthetic and design sensibilities of the present.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	–	1	2	3	2	1	2	–	2	3	–	1
CO2	3	3	–	–	2	2	2	–	1	–	1	3	–	–
CO3	3	3	–	2	3	3	2	–	1	–	2	3	–	2
CO4	3	2	–	1	3	3	2	2	2	2	2	3	–	1

Module 1: Foundations of Indian Art and Aesthetics

Foundations of Indian art - aesthetics and philosophical foundations; inter-disciplinarity of Indian arts; art as yoga (Kalāyoga); six limbs of Indian Painting (Ṣaḍaṅga); Kāmasūtra of Vātsyāyana and the Sixty-Four Arts (Chatuḥṣaṣṭi Kalāḥ); symbolism and iconography in Indian Art; Rasa theory

Module 2: Early and Classical Indian Art Traditions

Prehistoric and Proto-historic Art of India; Indus Valley Civilization; Birth of Art - episodes from the Viṣṇudharmottara Purāṇa and Citralakṣaṇa; Introduction to the Nāṭyaśāstra of Bharatamuni: The Foundational Text

Module 3: Indian Sculpture and Painting

Indian sculptural art - forms, materials and narratives; Indian painting traditions- from cave paintings (Ajanta, Bagh) to Pahari, Mughal, Rajput Schools to Thanka paintings and regional folk traditions (Mithila, Gond, Warli, Kalamkari, Pattachitra, Kalighat, etc.)

Module 4: Contemporary Discourses in Art

Modern Indian aestheticians - Rabindranath Tagore, Ananda K. Coomaraswamy, Govind Chandra Pandey, Kanti Chandra Pandey, Kapila Vatsyayan; introduction to western art philosophies, principles of modern and contemporary art

Reading Material

1. *Ananda Coomaraswamy, The Dance of Siva, Gyan Publishing House (2023)*
2. *Arindam Chakrabarti, The Bloomsbury Research Handbook of Indian Aesthetics and the Philosophy of Art, Bloomsbury Academic (Bloomsbury Publishing PLC), 2016*
3. *K. Krishnamoorthy, Some Thoughts on Indian Aesthetics and Literary Criticism (Special lectures, University of Mysore), University of Mysore, 1968*
4. *Susan L. Huntington (and John C. Huntington), The Art of Ancient India: Buddhist, Hindu, Jain, Weatherhill, 1985*
5. *H. Harvard Arnason and Elizabeth C. Mansfield, History of Modern Art, Seventh Edition, Pearson, 2013*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

22ADM101	**Foundations of Indian Heritage**	L-T-P	2-0-1

Course Objectives

- To introduce students to the depths and richness of the Indian heritage and knowledge traditions, and to enable them to obtain a synoptic view of the grandiose achievements of India in diverse fields.
- To equip students with a knowledge of their country and its eternal values.

Course Outcomes

After completing this course, students will be able to:

CO1 : Be able to enhance the understanding of true essence of India's cultural and spiritual heritage through learning analytically what it amounts to living a happy life, and about the richness of India's education system, while pondering on the serious damage caused by colonialism in India alongside learning about the means of decolonization and knowing about the early timeline of Indian subcontinent.

CO2 : Learn about the sublime value of selflessness and final freedom alongside understanding the concept of circle of life and Indian approach toward it while delving into the means of celebrating life.

CO3 : Familiarize on the topic of what true love is, by way of understanding the immense compassion of mahātmas, and Mātā Amṛtānandamayī's Amma's gospel on compassion, the role of metaphors and tropes whereafter focussing personality development through Yoga both theoretically and
Practically

CO4 : Appreciate the discussion on what it takes to be a strategic thinker, how India was glorified by various scholars and travellers and how strong a human being's association with nature should be alongside getting introduced to the glimpses of Indian traditions like Advaita Vedanta: the theory of oneness.

Module 1

Chapters 1-4

Educational Heritage of Ancient India
Life and Happiness
Impact of Colonialism and Decolonization
A timeline of Early Indian Subcontinent

Module 2
Chapters 5- 8
Pinnacle of Selflessness and ultimate freedom
Indian approach towards life
Circle of Life
Ocean of love; Indian Mahatmas

Module 3
Chapters 9 -12
Man's association with Nature
Celebrating life 24/7.
Metaphors and Tropes
Become A Strategic Thinker (Games / Indic activity)

Module 4
Chapters 13 -16
India: In the Views of Other Scholars and Travellers
Personality Development Through Yoga.
Hallmark of Indian Traditions: Advaita Vedanta, Theory of oneness
Conversations on Compassion with Amma

Reading Material
1. Foundations of Indian Heritage- In house publication
2. The Beautiful Tree by Dharampal
3. Peasants and Monks in British India by William Pinch
4. India, that is Bharat: Coloniality, Civilisation, Constitution by J Sai Deepak
5. Awaken Children Dialogues with Mata Amritanandamayi
6. Man, and Nature by Mata Amritanandamayi Devi
7. What Becomes of the Soul After Death, Divine Life Society

22AVP103	**Mastery Over Mind (MAOM)**	L-T-P	1-0-2

Course Overview

Master Over the Mind (MAOM) is an Amrita initiative to implement schemes and organise university wide programs to enhance health and wellbeing of all faculty, staff, and students (UN SDG -3). This program as part of our efforts for sustainable stress reduction gives an introduction to immediate and long-term benefits and equips every attendee to manage stressful emotions and anxiety facilitating inner peace and harmony.

With a meditation technique offered by Amrita Chancellor and world-renowned humanitarian and spiritual leader, Sri Mata Amritanandamayi Devi (Amma), this course has been planned to be offered to all students of all campuses of AMRITA, starting off with all first years, wherein one hour per week is completely dedicated for guided practical meditation session and one hour on the theory aspects of MAOM. The theory section comprises lecture hours within a structured syllabus and will include invited guest lecture series from eminent personalities from diverse fields of excellence. This course will enhance the understanding of experiential learning based on university's mission: "Education for Life along with Education for Living", and is aimed to allow

learners to realize and rediscover the infinite potential of one's true Being and the fulfilment of life's goals.

Course Objectives

- To introduce students to the depths and richness of the Indian heritage and knowledge traditions, and to enable them to obtain a synoptic view of the grandiose achievements of India in diverse fields.
- To equip students with a knowledge of their country and its eternal values.

Course Outcomes

After completing this course, students will be able to:

CO1 : Relate to the causes of stress in one's life.
CO2 : Experiment with a range of relaxation techniques
CO3 : Model a meditative approach to work, study, and life.
CO4 : Develop appropriate practice of MA-OM technique that is effective in one's life
CO5 : Inculcate a higher level of awareness and focus.
CO6 : Evaluate the impact of a meditation technique

Unit 1 (4 hours)

Causes of Stress: The problem of not being relaxed. Need for meditation -basics of stress management at home and workplace. Traditions and Culture. Principles of meditation– promote a sense of control and autonomy in the Universal Human Value System. Different stages of Meditation. Various Meditation Models. Various practices of Meditation techniques in different schools of philosophy and Indian Knowledge System.

Unit 2 (4 hours)

Improving work and study performance. Meditation in daily life. Cultivating compassion and good mental health with an attitude of openness and acceptance. Research and 16 Science of Meditation: Significance of practising meditation and perspectives from diverse fields like science, medicine, technology. philosophy, culture, arts, management, sports, economics, healthcare, environment etc. The role of meditation for stress and anxiety reduction in one's life with insights based on recent cutting-edge technology. The effect of practicing meditation for the wholesome wellbeing of an individual.

Unit 3 (4 hours)

Communications: principles of conscious communication. Relationships and empathy: meditative approach in managing and maintaining better relationships in life during the interactions in the world, role of MAOM in developing compassion, empathy and responsibility, instilling interest, and orientation to humanitarian projects as a key to harness intelligence and compassion in youth. Methodologies to evaluate effective awareness and relaxation gained from meditation. Evaluating the global transformation through meditation by instilling human values which leads to service learning and compassion driven research.

Reading Material

1. Mata Amritanandamayi Devi, "Cultivating Strength and vitality," published by Mata Amritanandamayi Math, Dec 2019
2. Swami Amritaswarupananda Puri ,"The Color of Rainbow " published by MAM, Amritapuri.
3. Craig Groeschel, "Winning the War in Your Mind: Change Your Thinking, Change Your Life" Zondervan Publishers, February 2019
4. R Nagarathna et al, "New Perspectives in Stress Management "Swami Vivekananda Yoga Prakashana publications, Jan 1986

5. Swami Amritaswarupananda Puri “Awaken Children Vol 1, 5 and 7 - Dialogues with Amma on Meditation”, August 2019
6. Swami Amritaswarupananda Puri “From Amma’s Heart - Amma’s answer to questions raised during world tours” March 2018 5.
7. Secret of Inner Peace- Swami Ramakrishnananda Puri, Amrita Books, Jan 2018. Mata Amritanandamayi Devi “Compassion :The only way to Peace:Paris Speech”, MA Center, April 2016.
8. Mata Amritanandamayi Devi “Understanding and collaboration between Religions”, MA Center, April 2016.
9. Mata Amritanandamayi Devi “Awakening of Universal Motherhood: Geneva Speech” M A center, April 2016.

SEMESTER 2
(FOUNDATION STUDIO)

25ARC111	**Foundation Design Studio – II**	L – T – P	2 – 4-16

Course Objectives

- To strengthen advanced skills in visual representation using both manual and digital tools.
- To develop precision and craftsmanship through hands-on model-making with diverse materials and techniques.
- To introduce students to fundamental design principles rooted in human perception, anthropometry and proportion.
- To cultivate cultural sensitivity and contextual awareness through tour-based architectural documentation.
- To develop an experiential understanding of human-scaled space by engaging with the design of built environments, and to introduce the basic concepts of materials, structure, and iterative design processes.
- To develop clarity in design thinking through writing and verbal articulation.

Course Outcomes

After completing this course, students will be able to:

CO1 : Generate accurate isometric, axonometric and perspective drawings and apply sciography and rendering techniques, including an introduction to digital representation tools.

CO2 : Construct detailed scaled models using materials like acrylic, wood, and glass, including sectional and presentation models and gain basic exposure to 3D printing technologies.

CO3 : Apply anthropometric data and perceptual understanding to spatial design and analyse the design philosophies of notable architects and designers.

CO4 : Document and interpret traditional built forms representing regional cultural heritage, demonstrating awareness of local materials, crafts and spatial practices.

CO5 : Design a built space relatable to human scale, while demonstrating an understanding of materiality, structural logic and the conceptual progression of the design process from idea to spatial articulation.

CO6 : Structure arguments, write design statements and present design intent clearly, both in written form and through effective verbal presentations.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	1	–	2	2	2	–	2	2	2	–	2	3	2
CO2	3	–	–	2	1	–	–	–	2	–	–	1	3	2
CO3	3	2	–	2	3	2	2	–	–	–	2	3	2	2
CO4	2	3	–	2	3	2	2	2	1	–	2	3	–	2
CO5	3	2	–	3	2	3	2	2	2	2	–	2	2	3
CO6	2	1	3	–	–	2	2	3	2	–	–	1	1	–

Module 1: Advanced Visual Representation

Isometric and axonometric views, perspective views, sciography, rendering techniques, drawing a building, introduction to digital tools for representation

Module 2: Model-making Workshop

Use of materials such as acrylic, wood, glass etc.; development of scaled models; presentation models; landscapes and interior details in models; sectional models; introduction to 3D printing

Module 3: Theory of Design

Human perception and spatial design; anthropometry; proportioning systems; concept of space-making; articulation of form and space; works of notable architects and designers.

Module 4: Tour Studies
Documentation of a traditional building symbolising the cultural heritage of a region; exposure to regional artistic, cultural and built traditions.

Module 5: Space Exploration
Understanding of human body in space; design of a built space of a size relatable to the human body; basic concepts of materials and structures in design; understanding of design process.

Module 6: Structured Analytical and Conceptual Writing
Structuring an argument, comparative writing, writing a design statement/intent, verbal presentation techniques

Reading Material

1. Alain de Botton, The Architecture of Happiness, Pantheon Books, 2006
2. *Francis D.K. Ching, Architectural Graphics, Sixth Edition, John Wiley & Sons, 2015*
3. *Yatin Pandya, Elements of Space Making, Mapin Publishing Pvt. Ltd., 2007*
4. *Francis D.K. Ching, Architecture - Form, Space, and Order, John Wiley & Sons, 1979*
5. *Gaston Bachelard, The Poetics of Space, Beacon Press, 1964*
6. *David W. Orr, The Nature of Design: Ecology, Culture, and Human Intention, Oxford University Press, 2002*
7. *Rudolf Arnheim, Visual Thinking, University of California Press, 1969*
8. *Kimberly Elam, Geometry of Design: Studies in Proportion and Composition, Princeton Architectural Press, 2001*
9. *Francis D.K. Ching & Steven P. Juroszek, Design Drawing, Second Edition, John Wiley & Sons, 2010*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25ARC112	**Building Materials & Technology - I**	L – T – P	1 – 0 – 2

Course Objectives

- To introduce students to the basic elements of buildings, their functional and structural roles
- To familiarize students with construction drawing standards, conventions and representation techniques
- To introduce students to natural and manufactured building materials, their properties, applications, and selection criteria, with emphasis on contextual appropriateness and sustainability.

Course Outcomes

After completing this course, students will be able to:

CO1 : Identify and explain the functions of substructure and superstructure elements, distinguish between load-bearing and framed structural systems, and visually analyse real buildings from foundation to roof.

CO2 : Produce accurate measured drawings, apply standard drafting conventions and represent basic building elements and construction details using appropriate drawing techniques.

CO3 : Describe the properties and uses of common building materials, evaluate materials based on structural and environmental criteria, and suggest appropriate material choices based on context and sustainability.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	2	–	2	2	2	–	1	1	–	–	2	2	2
CO2	3	–	–	–	2	2	–	2	1	–	–	1	3	1
CO3	3	2	–	3	2	2	2	–	1	–	2	3	2	3

Module 1: Elements of Buildings

Substructure and superstructure components and their functions; introduction to structural paradigms – loadbearing and frame; study of buildings from foundation to roof through case studies and/or live site visits.

Module 2: Introduction to Building Construction Drawing Practices and Conventions

Introduction to standard conventions; measured drawing; study of building details; techniques of presenting construction drawings.

Module 3: Introduction to Building Materials

Natural and artificial materials and applications; contextual relevance; properties of materials; structural aspect; selection criteria of materials; introduction to sustainable materials; site/factory visits; hands-on workshop with materials; market survey of materials and creation of material library.

Reading Material

1. *Francis D.K. Ching, Building Construction Illustrated, John Wiley & Sons, 2020*
2. *Paul Oliver, Encyclopedia of Vernacular Architecture of the World, Cambridge University Press, 1997*
3. *Ross Spiegel & Dru Meadows, Green Building Materials: A Guide to Product Selection and Specification, John Wiley & Sons, Inc., 1999*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

25ARC113	History & Culture – II	L – T – P	2 – 0 – 0

Course Objectives

- To introduce students to the socio-cultural, religious, climatic, and political factors that influenced the development of architecture and urbanism in ancient river-valley civilizations
- To explore the historical, aesthetic and philosophical foundations of Classical Greek and Roman architecture.
- To develop an understanding of the cultural, cosmological and metaphysical foundations of Vedic architecture.

Course Outcomes

After completing this course, students will be able to:

CO1 : Analyse the architectural forms, planning strategies, and material practices of ancient river-valley civilizations by understanding their belief systems, social hierarchies, environmental contexts and technological capabilities.

CO2 : Identify and interpret the architectural features, construction systems and civic spaces of Classical Greece and Rome and evaluate their design philosophy and influence on later architectural movements.

CO3 : Explain the philosophical and symbolic basis of Vedic architecture, and analyse spatial patterns, design principles, and sacred geometries used in early Indian architectural practices.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	–	2	2	3	2	–	1	–	2	3	–	2
CO2	3	2	–	–	2	3	–	–	1	–	2	2	–	1
CO3	3	3	–	2	2	3	2	–	1	–	2	3	–	2

Module 1: River-valley Civilizations

Study of socio-cultural, religious and political systems, people's beliefs, climate and other factors influencing the design of the built form of ancient river-valley civilizations along Nile, Tigirs, Euphrates and Sindhu.

Module 2: Classical Greece and Rome

Historical and cultural context; classical Greek and Roman architecture and design features; materials and techniques; aesthetics and design philosophy; global influence

Module 3: Vedic Period

Cultural and philosophical context; sacred geometry; spatial orientation and cosmology; early built forms and spatial patterns; design philosophy and symbolism

Reading Material

1. *Francis D.K. Ching, Mark Jarzombek, and Vikramaditya Prakash, A Global History of Architecture, John Wiley & Sons, 2007*
2. *Banister Fletcher, A History of Architecture, 1996*
3. *Ananda Coomaraswamy, The Dance of Siva, Gyan Publishing House (2023)*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

25ARC114	Structural Systems in Design - I	L – T – P	1 – 1 – 0

Course Objectives

- To develop an understanding of geometric, trigonometric, and mathematical principles—such as the Golden Ratio and fractal theory—as tools to inform design thinking and spatial organization.
- To explore the historical evolution of structural systems from ancient to industrial eras and understand their cultural, material, and technological influences.
- To introduce fundamental structural principles and forms while building intuitive understanding of how structures support loads and achieve stability.
- To familiarize students with structural systems, their components, and basic techniques of load analysis in architectural design.

Course Outcomes

After completing this course, students will be able to:

CO1 : Apply mathematical principles and patterns to enhance structural logic and aesthetic expression in design.

CO2 : Identify and analyse the development of structural systems and their contextual relevance across history.

CO3 : Understand and apply basic structural principles to evaluate the stability and logic of structural forms in design.

CO4 : Analyse the behaviour of structural components and load distribution in simple built forms.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	2	–	2	3	2	–	–	2	2	–	2	3	3
CO2	3	3	–	2	2	3	–	–	1	–	–	2	2	2
CO3	3	2	–	3	3	2	–	–	2	–	2	2	3	3
CO4	3	1	–	3	3	2	–	–	1	–	2	2	3	3

Module 1: Mathematics in Design

Basic geometry in design; trigonometry in structural analysis; Golden ratio; Fractal theory

Module 2: Evolution of Structural Design

Evolution of structural systems from ancient to modern times − monolithic rock-cut forms, trabeated and arcuate construction methods, vaults, flying buttresses, tent structures, masted systems and bridges; Post-Industrial developments − modular construction techniques for large-span and suspension structures using steel and concrete.

Module 3: Structural Design Principles

Introduction to structural design; understanding structural forms and elements in architecture and design; types of loads; principles governing behaviour of external loads; understanding structural identity- why don't things fall down?

Module 4: Structural Components & Load Analysis

Structural systems; types and functions of structural components; types of loads; analysis of structural loads and their distribution

Reading Material

1. *Mario Salvadori, Why Buildings Stand Up: The Strength of Architecture, W. W. Norton &*

Company, 2002
2. *J. E. Gordon, Structures: Or Why Things Don't Fall Down, Da Capo Press, 2003*
3. *Martin Walter, Mathematics for the Environment, Chapman and Hall, 2011*
4. *Mario Livio, The Golden Ratio: The Story of Phi, the World's Most Astonishing Number, Broadway Books, 2002*
5. *Mario Salvadori, Robert A. Heller & Deborah Oakley, Structure in Architecture: The Building of Buildings, Pearson, 2016*
6. *Matila Ghyka, The Geometry of Art and Life, Dover Publications, 1977*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

22ADM111	**Glimpses of Glorious India**	L – T – P	2 – 0 – 1

Course Objectives

The course aims at introducing Bhārath in nutshell to the student, which includes the sources of Indian thoughts, eminent personalities who shaped various disciplines, India's significant contribution to the man kind, the current stature of Indian in the geopolitics and Indian approach to science and ecology.

Course Outcomes

After completing this course, students will be able to:

CO1 : Will be able to recognise the call of Upanishads and outstanding personalities for confronting the wicked in the real world while admiring the valour, pursuit and divinity in both classical and historical female characters of India.

CO2 : Will get introduced to Acharya Chanakya, his works, and his views on polity and nation to find synchrony between public and personal life, alongside understanding India's cultural nuances and uniqueness concerning the comprehension of God across major global communities.

CO3 : Will be able to appreciate Bhagavad Gita as the source of the Indian worldview through the various Yogic lessons enshrined in it, making it one of India's numerous soft powers, and also understand the faith-oriented mechanism of preserving nature.

CO4 : Will be informed about the enormous contribution of Indian civilisation over two and a half millennia to humanity and develop awareness about India's approach toward science, devoid of dogmas and rooted in humanism.

Module 1

Chapter 1 – Face the Brutes
Chapter 2 – Role of Women in India
Chapter 3 – Acharya Chanakya
Chapter 4 – God and Iswara

Module 2

Chapter 5 – Bhagavad Gita: From Soldier to Samsarin to Sadhaka
Chapter 6 – Lessons of Yoga from Bhagavad Gita

Chapter 7 – Indian Soft powers
Chapter 8 – Preserving Nature through Faith

Module 3

Chapter 9 - Ancient Indian Cultures (Class Activity)
Chapter 10 - Practical Vedanta
Chapter 11 - To the World from India
Chapter 12 - Indian Approach to Science

Reading Material

1. *Glimpses of Glorious India- In-house publication*
2. *Fear Not: Be Strong (Swami Tathagatananda)*
3. *Essays on Gita (Sri Aurobindo)- Aurobindo Ashram*
4. *Indian Contribution to Science (Vijana Bharati Publication)*
5. *The Culture And Civilisation Of Ancient India In Historical Outline (D. D. Kosambi)*
6. *The Kautilya Arthashastra by Chankaya – Translation with critical and explanatory note by R P Kangle – Motilal Banarasidass Publishers- 1972*
7. *Chanakya Neeti – Strategies for success – Radhakrishnan pillai – Jaico Publishing house -2020.*
8. *Universal Message of the Bhagavad Gita: An exposition of the Gita in the Light of Modern Thought and Modern Needs. - Swami Ranganathananda, Advaita Ashrama Belur Math, 2000.*
9. *A Concise History Of Science In India – D M Bose, S N Sen, B V Subbarayappa,The Indian National Science Academy 1971.*
10. *Indian Culture and India's Future – Michel Danino - D.K. Printworld (P) Ltd -2011.*

SEMESTER 3

25BID201	**Interior Design Studio – I**	L – T – P	2 – 4 – 16

Course Objectives

- To introduce students to the cultural, ecological, material and spatial logics embedded in vernacular traditions, enabling critical understanding of how communities shape space through climate, culture, and craft.
- To develop observational and analytical skills through direct documentation of a vernacular building or settlement with attention to tangible and intangible spatial qualities.
- To explore the relationship between human perception, proportion, and spatial composition through the lens of cultural and historical frameworks.
- To instil a sense of ethical and social responsibility by engaging students in community-oriented design tasks through direct service and collaboration with real-world stakeholders.
- To strengthen students' ability to critique, reflect, and communicate design ideas effectively through structured writing and peer review.

Course Outcomes

After completing this course, students will be able to:

CO1 : Analyse vernacular spaces for their contextual relevance, spatial typologies, material choices, and cultural narratives, and apply these insights to inform contemporary design interpretations.

CO2 : Document and interpret vernacular built environments using measured drawings, visual records, material studies, and cultural analysis, culminating in a contextual presentation.

CO3 : Design interior spaces that reflect an informed understanding of human scale, cultural perception and spatial organization.

CO4 : Reflect on their design role in society by participating in socially meaningful volunteer work, applying empathy, humility, and practical design skills in service contexts.

CO5 : Articulate critical evaluations of built environments, design works, and their own projects through informed, well-structured written critiques.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	3	2	2	3	2	–	–	1	2	–	3	2	2
CO2	2	3	1	2	3	2	–	–	1	–	3	3	2	2
CO3	3	2	–	3	3	2	–	–	–	–	2	3	3	3
CO4	2	2	3	2	2	3	3	2	2	2	–	2	2	3

Module 1: Vernacular Space Narratives

Introduction to vernacular design; cultural and social constructs of space; materials, crafts and making; climatic and ecological considerations; typologies and spatial patterns.

Module 2: Settlement Study

Understanding context; measured drawing; cultural and intangible aspects; materials and construction practices; space usage and mapping; analysis and interpretation; presentation

Module 3: Spatial Cultures' Design

Human perception and spatial design; anthropometry; proportioning systems; concept of space-making; articulation of form and space; works of notable architects and designers.

Module 4: Seva

Engagement in skill-based, service-based, awareness-based, craft/material-based volunteering activities as a part of understanding design and social responsibility.

Module 5: Critical Writing
Writing critiques of built spaces, works of self and peers

Reading Material

1. *Amos Rapoport. (1969). House Form and Culture. Prentice-Hall.*
2. *Christopher Alexander, Sara Ishikawa, and Murray Silverstein. (1977). A Pattern Language: Towns, Buildings, Construction. Oxford University Press.*
3. *Paul Oliver (Ed.). (1997). Encyclopaedia of Vernacular Architecture of the World. Cambridge University Press.*
4. *Kulbhushan Jain. (2002). Thematic Space in Indian Architecture. AADI Centre.*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID202	**Interior Materials & Technology**	L – T – P	3 – 0 – 2

Course Objectives

- To introduce students to the classification, basic properties, and selection criteria of materials commonly used in interior design, with emphasis on their aesthetic, functional, and sustainable aspects.
- To provide students with an in-depth understanding of wood, bamboo, and allied materials including their types, joinery techniques, treatments, and applications in furniture and spatial elements.
- To explore the use of masonry, concrete, and metals in interior construction, partitions, finishes, and detailing, with focus on performance, durability, and integration with building services.
- To familiarize students with the properties, types and interior applications of glass, ceramics, and advanced materials, along with an introduction to smart materials and emerging fabrication technologies.

Course Outcomes

After completing this course, students will be able to:

CO1 : Identify and evaluate interior materials based on their physical properties, functional suitability, aesthetic value, and sustainability for various interior applications.

CO2 : Analyse the structural and visual characteristics of wood and bamboo-based materials and apply them appropriately in furniture, partitions, and surface treatments within interior spaces.

CO3 : Interpret and apply the appropriate use of brick, stone, concrete, and metal components in interior systems such as partitions, claddings, ceilings and fixtures

CO4 : Demonstrate an understanding of contemporary and smart materials and creatively integrate them into interior design proposals with an awareness of performance, aesthetics and innovation.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	2	–	3	2	2	2	–	–	2	2	2	3	3
CO2	3	2	–	2	2	2	1	–	–	–	2	2	3	2
CO3	3	2	–	2	3	2	–	–	–	–	2	2	3	2
CO4	3	1	–	3	2	3	1	–	–	3	3	2	3	3

Module 1: Introduction to Interior Materials
Classification: natural, synthetic, composite materials; material properties: strength, texture, thermal/acoustic behaviour, durability, maintenance; selection criteria: function, aesthetics, cost, availability, context; surface finishes: paints, polishes, laminates, veneers, wallpapers; introduction to sustainable and recycled materials; market survey and creation of material library.

Module 2: Wood, Bamboo and Allied Materials
Types of wood: hardwoods, softwoods, plywood, MDF, particleboard; joinery techniques and timber construction basics; bamboo: structure, treatment, joinery, application in furniture and partitions; veneers and laminates: production, properties, and usage; case studies: wood and bamboo use in Indian interior design and furniture traditions.

Module 3: Masonry, Concrete and Metal in Interiors
Brick and stone: types, finishes, bonding in partitions and cladding; concrete: cast-in-place, precast, ferrocement, decorative concrete surfaces; metals: steel, aluminium, brass, copper – sections, finishes, structural and decorative applications; partition systems and ceiling systems using these materials; integration of lighting and services with hard materials

Module 4: Glass, Ceramics and New Age Materials
Glass: types, treatments, safety, acoustics, and applications in partitions, doors, facades; ceramics and tiles: wall/floor types, glazes, backsplashes, mosaics; fabric and soft materials in interiors (brief overview); smart materials: phase change materials, acoustic panels, responsive surfaces; innovations in interior technologies: modular systems, prefabs, 3D-printed panels, digital fabrication

Reading Material

1. Building Materials – SK Duggal
2. Construction Technology – Roy Chudley and Roger Greeno
3. Interior Design Materials and Specifications – Lisa Godsey

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID203	History of Interior Design	L – T – P	2 – 0 – 0

Course Objectives

- Understand the evolution of interior spaces in India, focusing on cultural, symbolic and cosmological meanings in domestic and sacred environments.
- Analyse vernacular and regional interior traditions of India with emphasis on spatial organization, materiality, craft integration and climate responsiveness.
- Examine global influences on Indian interiors during different periods in Indian History, assessing their stylistic and functional implications.
- Evaluate post-independent and contemporary Indian interiors, engaging with modernist, postmodernist and sustainable design narratives in practice.

Course Outcomes

After completing this course, students will be able to:

CO1 : Interpret early Indian concepts of interiority and apply cultural, cosmological and symbolic knowledge in design

CO2 : Analyse vernacular and regional Indian interiors, integrating climate-responsive planning, indigenous materials, and craft traditions.

CO3 : Evaluate the stylistic, material, and functional influences of foreign traditions on Indian interiors.

CO4 : Critically assess and propose contemporary Indian interior solutions informed by modernist approaches, sustainability principles and future-oriented practices.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	2	2	2	3	2	1	2	1	2	3	2	2
CO2	3	3	2	3	3	2	3	2	2	1	2	3	3	3
CO3	3	3	2	2	2	3	2	2	2	1	2	3	2	2
CO4	3	2	3	3	3	3	3	3	3	3	3	3	3	3

Module 1: Origins of Interior Space in India

Early concepts of interiority in the Indian context – Indus Valley, Vedic, Buddhist, and Jain traditions; domestic and sacred spaces: chaityas, viharas, temple mandapas and their interior organization; symbolism, cosmology and cultural meanings of Indian interiors; materials, colours and ornamentation traditions in early Indian interiors.

Module 2: Vernacular and Regional Interiors of India

Vernacular interiors across India such as courtyard houses, havelis, tharavad, chettinad mansions, and tribal dwellings; regional variations in furniture, artefacts and decorative arts (woodwork, stone, textiles); ritual usage of interior spaces and the integration of craft traditions; climate-responsive interior planning; use of indigenous materials.

Module 3: Global Influence on Indian Interiors

Sultanate and Mughal influence: arches, jalis, calligraphy, spatial hierarchy; Indo-Saracenic style; Colonial influence: bungalow typologies, Art Deco; Dutch, Portuguese and French influence in design; Industrial revolution and its impact on the emergence of modern furniture and ornamentation.

Module 4: Contemporary Interior Design in India

Indian modernist interiors: works of Charles Correa, B.V. Doshi, Chandigarh's interior environments; Role of craft, textile, and hand-made traditions in shaping post-independence Indian interiors; Postmodernism, minimalism and contemporary global styles in interiors; Indian interior

trends in the 21st century: apartments, luxury homes, adaptive reuse; gendered spaces; sustainability, biophilic design and new material narratives.

Reading Material

1. Kagal, C. (Ed.). (1986). *Vistara: The Architecture of India*. The Festival of India
2. *Pandya, Y. (2024). Concepts of Space in Traditional Indian Architecture. Mapin Publishing Gp Pty Ltd.*
3. *Pandya, Y. (2004). Elements of Spacemaking. Mapin Publishing.*
4. *Kulbhushan Jain and Meenakshi Jain. (1989). Architecture of the Indian Desert. AADI Centre.*
5. Jain, K., & Mehrotra, R. (2002). *Architecture in India Since 1990.* Phaidon Press.
6. *George Michell. (2010). Islamic Architecture of the Deccan: India 1321–1687. Marg Publications.*
7. *Jon Lang. (2002). A Concise History of Modern Architecture in India. Permanent Black.*
8. *B.V. Doshi. (2011). Paths Uncharted. Vastu Shilpa Foundation.*
9. *Suneet Chopra and Pupul Jayakar. (1990). Crafts and Interiors in India. Wiley Eastern Limited.*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

25BID204	**Environmental Psychology in Interior Design**	L– T – P	2 – 0 – 0

Course Objectives

- To introduce foundational theories of environmental psychology and explore how human behaviour is influenced by interior environments in terms of space use, privacy, territoriality and social interaction.
- To explore how interiors are perceived through the senses and how sensory elements such as light, colour, texture, sound and smell impact comfort, mood and spatial experience.
- To examine how social norms, cultural practices, and identity influence spatial needs and design decisions in interior environments.
- To apply psychological principles in designing interiors that promote well-being, reduce stress, enhance productivity and support user needs in various settings.

Course Outcomes

After completing this course, students will be able to:

CO1 : Analyse spatial layouts and identify behavioural patterns such as privacy needs, circulation conflicts and crowding effects in interior spaces.

CO2 : Evaluate the multisensory qualities of interior environments and design spaces that enhance user experience through thoughtful sensory integration

CO3 : Interpret how cultural and social dynamics shape interior space usage and apply culturally appropriate design strategies for diverse user groups.

CO4 : Students will be able to formulate interior design solutions that incorporate biophilia, healing design, cognitive mapping and behavioural intent to improve spatial quality and user well-being.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	1	–	3	2	2	3	–	2	1	2	2	2	3
CO2	2	1	–	3	2	2	3	–	2	2	3	2	2	3
CO3	2	3	2	2	2	2	3	2	2	2	2	3	2	3
CO4	2	3	3	3	2	3	3	2	2	3	3	2	2	3

Module 1: Introduction to Environmental Psychology and Human Behaviour in Space
Definition, scope, and relevance to interior design; understanding person-environment relationships; human needs and Maslow's hierarchy in spatial design; concepts of personal space, territoriality, crowding, and privacy; proxemics and behavioural mapping

Module 2: Sensory Perception and Spatial Experience
Role of the five senses in interior spatial experience; visual perception: light, colour, scale and proportion; tactile, acoustic, olfactory, and thermal comfort in interiors; psychology of ambience and atmosphere; emotional responses and memory associated with interior environments.

Module 3: Cultural, Social and Identity Factors in Spatial Design
Influence of culture, gender and social roles on spatial behaviour; designing for diversity: age, ability, and neurodiversity in interiors; cultural symbolism in interior elements; rituals, habits, and lifestyle in domestic and communal interiors; interior spaces and identity construction (home, workspaces, personal areas)

Module 4: Psychological Strategies for Interior Design Applications
Stress-reducing and healing environments; biophilic design principles and human-nature connection; design for mental health and emotional well-being; way-finding and spatial cognition in complex interiors; designing for interaction, creativity and productivity

Reading Material

1. *Juhani Pallasmaa. (2005). The Eyes of the Skin: Architecture and the Senses. Wiley.*
2. *Rachel Kaplan and Stephen Kaplan. (1989). The Experience of Nature: A Psychological Perspective. Cambridge University Press.*
3. *Steen Eiler Rasmussen. (1962). Experiencing Architecture. MIT Press.*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

STRATEGIC LESSONS FROM MAHĀBHĀRATA

1-0-0-1

22ADM201: STRATEGIC LESSONS FROM MAHĀBHĀRATA

A. Prerequisite: nil

B. Nature of Course: Theory

C. Course Objectives:

- This course probes into the timeless itihasa of Mahabharata to uncover valuable insights on strategy, leadership, and decision-making.
- This course offers a captivating exploration of the itihasa, providing students with a comprehensive understanding of its historical and cultural significance, while drawing compelling parallels to modern-day business and life challenges.
- This course equips students with the essential tools to navigate complex situations, make informed choices, and achieve success.
- Aligned with the Indian Knowledge Systems (IKS) framework outlined in the National Education Policy, this course serves as an introduction to the vast reservoir of wisdom and knowledge rooted in Indian heritage.
- Whether you are interested in business, politics, or personal growth, this course offers invaluable wisdom that transcends time, making it an indispensable resource for anyone seeking to master the art of strategy and leadership.

D. Course Outcomes: After successful completion of the course, Students will be able to:

CO	Course Outcomes	Knowledge level [Bloom's Taxonomy]
CO01	**Recall key events and characters from the Mahabharata.** Statement: Demonstrate the ability to remember and recount significant events and characters from the Mahabharata, establishing a foundational understanding of the epic.	Remembering
CO02	**Explain the strategic decisions made by characters in the Mahabharata and their implications.** Statement: Comprehend the strategic choices made by characters in the Mahabharata and elucidate the consequences these decisions had on the unfolding of the narrative.	Understanding
CO03	**Apply strategic principles from the Mahabharata to contemporary business scenarios.** Statement: Utilize strategic insights derived from the Mahabharata to address modern business challenges, adapting historical lessons to current organizational contexts.	Applying
CO04	**Analyze the diverse strategic approaches employed by characters in the Mahabharata**. Statement: Dissect the multifaceted strategic tactics used by Mahabharata characters, evaluating their effectiveness and dissecting the factors influencing their outcomes.	Analyzing
CO05	**Evaluate the enduring relevance of Mahabharata's strategic wisdom in present-day contexts.** Statement: Assess the ongoing significance of strategic lessons from the Mahabharata, appraising their applicability and value within contemporary strategic decision-making processes.	Evaluating
CO06	**Develop innovative strategic frameworks by synthesizing insights from the Mahabharata**. Statement: Formulate original strategic models by amalgamating and reinterpreting the diverse strategic teachings extracted from the Mahabharata, fostering novel approaches to strategic thinking.	Creating

POs Programme Outcomes	COs

PO1: Engineering Knowledge
PO2: Problem Analysis
PO3: Design/Development of Solutions
PO4: Conduct Investigations of complex problems
PO5: Modern tools usage
PO6: Engineer and Society
PO7: Environment and Sustainability
PO8: Ethics
PO9: Individual & Teamwork
PO10: Communication
PO11: Project management & Finance
PO12: Lifelong learning

B.Tech. EEE Programme Specific Outcome (PSO)

PSO1:
Awareness of Future Technology: Develop solutions for future systems using smart technologies.

PSO2:
Research and Innovation: Identify engineering challenges, approach using cutting edge research tools and execute innovative solutions.

- **CO01 Recall key events and characters from the Mahabharata.**
- **CO02 Explain the strategic decisions made by characters in the Mahabharata and their implications.**
- **CO03 Apply strategic principles from the Mahabharata to contemporary business scenarios.**
- **CO04 Analyze the diverse strategic approaches employed by characters in the Mahabharata.**
- **CO05 Evaluate the enduring relevance of Mahabharata's strategic wisdom in present-day contexts.**
- **CO06 Develop innovative strategic frameworks by synthesizing insights from the Mahabharata.**

E. CO-PO Mapping: [affinity#: 3 – high; 2- moderate; 1- slightly]

COs	Program Outcomes [POs]												Program Specific Outcomes	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO01	-	-	-	-	-	-	-	2	-	-	-	3	-	-
CO02	-	-	-	-	-	2	2	2	2	-	-	2	-	-
CO03	-	-	2		-	2	-	-	2	-	3	3	-	-
CO04	-	-	-	-	-	2	-	-	3	2	-	2	-	-
CO05	-	2	2	-	2	3	3	3	2	-	-	3	-	-
CO06	-	2	2	-	-	3	3	2	2	-	-	2	-	-
Total														
Average														

F. SYLLABUS

22ADM201 **STRATEGIC LESSONS FROM MAHĀBHĀRATA** **[1-0-0-1]**

Course Syllabus

1. Chapter 1 A Preamble to the Grand Itihāsa
2. Chapter 2 Mahābhārata - A Brief Summary
3. Chapter 3 Mahābhārata: Whats and Whatnots
4. Chapter 4 Dharmic Insights of a Butcher
5. Chapter 5 Unbroken Legacy
6. Chapter 6 A Timeless Itihāsa for Timely Needs
7. Chapter 7 Pratijña
8. Chapter 8 Karna: The Maestro that Went Wide of the Mark
9. Chapter 9 Kingship and Polity Acumen
10. Chapter 10 Mahabharata in Adages
11. Chapter 11 Popular Regional Tales
12. Chapter 12 Strategical Silhouette of an Extraordinary Peace Mission
13. Chapter 13 Yajñaseni: A Woman from Fire
14. Chapter 14 Death and Deathlessness
15. Chapter 15 The Goal of Life

Textbooks: ***STRATEGIC LESSONS FROM MAHĀBHĀRATA***

Reference Books:

1. ***The Mahabharata***, Translated by Bibek Debroy
2. ***The Mahabharata*** by C Rajagopalachari.
3. ***Mahabharata*** by Kamala Subramaniam.
4. ***Some Exemplary Characters of Mahabharata***, Book by Jayadayal Goyandka

G. Evaluation Pattern (Int : Ext = 60: 40)

IAM		CA (Theory Faculty)		ES	Total
Attendance	Practical Evaluation	Class Test	Assignment	End Semester Examination	
5	10	25	20	40	100

- **Remarks**
- **CA** refers to Continuous Assessment.
- **ES** refers to the End Semester Examination.
- **Assignments** may include any one of the following: topic-based written submission, presentations, or rough book submission.
- **CA tasks** will be similar across batches within a department.
- **Class Test** will be a written exam for all batches within a department.
- **ES** will be conducted online through AUMS.

Total Marks = 100

Internal (60)	External (40)	Total (CA + ES)
IAM + CA = 15 + 45 = 60	ES = (40)	60 + 40 = 100

LEADERSHIP LESSONS FROM RAMAYANA

1-0-0-1

22ADM211: LEADERSHIP LESSONS FROM RAMAYANA

A. Prerequisite: nil

B. Nature of Course: Theory

C. Course Objectives:

- To introduce students to the depths and richness of the Indian culture and knowledge traditions.
- Memorize and retrieve significant characters and events, demonstrating a foundational understanding of the Ramayana
- Through a study of the Rāmāyaṇa, the student should gain a deeper understanding of the ethical grandeur of Indian culture and be inspired to follow the ideals of the characters depicted therein.
- Aligned with the Indian Knowledge Systems (IKS) framework outlined in the National Education Policy, this course serves as an introduction to the vast reservoir of wisdom and knowledge rooted in Indian heritage.

D. Course Outcomes:

After successful completion of the course, Students will be able to:

CO	Course Outcomes	Knowledge level [Bloom's Taxonomy]
CO01	**Recall key characters and events from the Ramayana.** Statement: Memorize and retrieve significant characters and events, demonstrating a foundational understanding of the Ramayana narrative.	Remembering
CO02	**Explain the ethical challenges faced by characters in the Ramayana and their repercussions.** Statement: Comprehend the moral dilemmas encountered by Ramayana characters and articulate the effects of their decisions on the storyline	Understanding
CO03	**Apply leadership principles from the Ramayana to real-life leadership situations**. Statement: Utilize insights gleaned from the Ramayana to solve contemporary leadership predicaments, adapting its teachings to modern contexts.	Applying

CO04	**Analyze the diverse leadership styles portrayed by characters in the Ramayana and their impacts**. Statement: Examine the multifaceted leadership approaches of Ramayana's characters, assessing their effectiveness and unravelling the factors shaping their outcomes.	Analyzing
CO05	**Evaluate the enduring relevance of Ramayana's leadership lessons in the present day.** Statement: Assess the ongoing significance of the Ramayana's leadership wisdom, gauging its applicability and worth within contemporary leadership landscapes	Evaluating
CO06	**Develop a comprehensive leadership framework by synthesizing lessons from the Ramayana.** Statement: Formulate an innovative leadership model by integrating and reimagining the diverse teachings extracted from the Ramayana, fostering a novel approach to effective leadership.	Creating

***Programme Outcomes (PO)** (As given by NBA and ABET)

POs	**COs**
PO1: Engineering Knowledge **PO2: Problem Analysis** **PO3: Design/Development of Solutions** **PO4: Conduct Investigations of complex problems** **PO5: Modern tools usage** **PO6: Engineer and Society** **PO7: Environment and Sustainability** **PO8: Ethics** **PO9: Individual & Teamwork** **PO10: Communication** **PO11: Project management & Finance** **PO12: Lifelong learning** ***B.Tech. EEE Programme Specific Outcome (PSO)** **PSO1:**	**CO1: Recall key characters and events from the Ramayana.** **CO2: Explain the ethical challenges faced by characters in the Ramayana and their repercussions.** **CO3: Apply leadership principles from the Ramayana to real-life leadership situations.** **CO4: Analyze the diverse leadership styles portrayed by characters in the Ramayana and their impacts.** **CO5: Evaluate the enduring relevance of Ramayana's leadership lessons in preserving the environment and creating ecological awareness.** **CO6: Develop a comprehensive leadership framework by synthesizing lessons from the Ramayana.**

Awareness of Future Technology: Develop solutions for future systems using smart technologies. **PSO2:** Research and Innovation: Identify engineering challenges, approach using cutting edge research tools and execute innovative solutions.	

E. CO-PO Mapping: [affinity[#]: 3 – high; 2- moderate; 1- slightly]

COs	Program Outcomes [POs]												Program Specific Outcomes [PSOs]*		
	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO01	-	-	-	-	-	-	-	2	-	-	-	3	-	-	-
CO02	-	-	-	-	-	-	-	3	-	-	-	2	-	-	-
CO03	-	-	-	2	-	3	3	2	2	-	-	2	-	-	-
CO04	-	-	-	-	-	-	-	2	3	-	-	3	-	-	-
CO05	-	-	-	-	-	2	3	-	-	-	-	3	-	-	-
CO06	-	-	2	1	-	1	-	2	3	-	-	2	-	-	-
Total															
Average [$]															

F. SYLLABUS

22ADM211 **LEADERSHIP LESSONS FROM RAMAYANA** **[1-0-0-1]**

Course Syllabus

1	Introduction to Ramayana
2	A Concise Retelling of Ramayana (Part 1)
3	A Concise Retelling of Ramayana (Part 2)
4	A Concise Retelling of Ramayana (Part 3)
5	The Message of Ramayana
6	Becoming Sri Rama (Part 1)
7	Becoming Sri Rama (Part 2)
8	Principles of Ramayana
9	Legacy of Hanuman: Insights for Exceptional Leadership
10	Ramayana Parikramana - Through the Trails of Sitadevi
11	Sitadevi - An Enduring Tale of Love, Faith and Courage
12	Decoding Dharma in Ramayana
13	The Rise & Fall of Ravana
14	Rajaneeti in Ayodhya
15	Footprints of Ramayana
16	Sri Rama - The Supreme Leader

Textbooks:

LEADERSHIP LESSONS FROM RAMAYANA

Reference Books:

- Rajagopalachari. C, *The Ramayana*
- Valmiki, *The Ramayana*, Gita Press
- *Skanda Purana*
- *Hinduism and Ecology*

G. Evaluation Pattern:

G. Evaluation Pattern (Int: Ext = 60: 40)

IAM		CA (Theory Faculty)		ES	Total
Attendance	Practical Evaluation	Assignment	Class Test	End Semester Examination	
5	10	25	20	40	100

- **Remarks**
- **CA** refers to Continuous Assessment.
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- **Assignments** may include any one of the following: topic-based written submission, presentations, or rough book submission.
- **CA tasks** will be similar across batches within a department.
- **Class Test** will be a written exam for all batches within a department.
- **ES** will be conducted online through AUMS.

Total Marks = 100

Internal (60)	External (40)	Total (CA + ES)
IAM + CA = 15 + 45 = 60	ES = (40)	60 + 40 = 100

SEMESTER 4

25BID211	**Interior Design Studio – II**	L – T – P	2 – 4– 16

Course Objectives

- To introduce students to diverse housing typologies and principles of efficient space planning.
- To equip students with the ability to design efficient, context-sensitive and user-specific residential interiors through an understanding of spatial hierarchy, furniture layout, movement patterns, and compact design solutions.
- To equip students with the digital skills necessary to accurately draft, model and visualize interior spaces using 2D and 3D software.

Course Outcomes

After completing this course, students will be able to:

CO1 : Identify, classify and analyse various housing typologies and apply the principles of spatial zoning, circulation and space efficiency to design contextually appropriate interior layouts.

CO2 : Design interior spaces for residential habitats that are functionally efficient, responsive to user needs and demonstrate clear understanding of spatial hierarchy, ergonomics and multi-functional use of space.

CO3 : Produce precise 2D drawings and 3D models of interior spaces using digital tools and effectively communicate design ideas through visualizations, renderings and technical documentation.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	2	2	2	3	2	–	2	–	1	2	3	2	2
CO2	3	2	2	3	3	2	2	–	2	2	2	2	3	3
CO3	3	–	2	1	3	1	–	2	1	2	2	1	3	2

Module 1: Housing Typologies and Space Planning

Introduction to housing and housing typologies; residential space standards; principles of space planning; compact and efficient space design; contemporary housing trends.

Module 2: Habitat Design Studio

User and site profiling; site context; housing typology study and documentation; space planning exercises; space efficiency and functionality; furniture design solutions; design presentation

Module 3: Digital Tools

2D drawings and diagrams – creating accurate design drawings, annotation; 3d modelling

Reading Material

1. *Amos Rapoport. (1969). House, Form and Culture. Prentice-Hall.*
2. *Francis D.K. Ching. (2012). Interior Design Illustrated (3rd ed.). Wiley.*
3. *Gaston Bachelard. (1994). The Poetics of Space. Beacon Press. (Originally published in 1958)*
4. *Ernst Neufert. (2012). Architects' Data (4th ed.). Wiley-Blackwell.*
5. *Joseph DeChiara, Julius Panero, and Martin Zelnik. (2001). Time-Saver Standards for Interior Design and Space Planning (2nd ed.). McGraw-Hill.*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID212	**Integrated Building Systems for Interiors - I**	L – T – P	3 – 0 – 2

Course Objectives

- To introduce students to the fundamentals of water supply and sanitation systems.
- To equip students with the ability to plan and coordinate interior drainage elements.
- To develop an understanding of electrical supply and distribution systems.
- To familiarize students with the principles of lighting and acoustics.

Course Outcomes

After completing this course, students will be able to:

CO1 : Identify the components and layout of water supply and sanitation systems relevant to interior spaces, including kitchens and bathrooms.

CO2 : Interpret and design basic plumbing and drainage layouts, including internal fixtures and external inspection systems.

CO3 : Apply knowledge of electrical systems to create interior layouts for power supply, lighting, safety devices, and concealed wiring.

CO4 : Analyse the impact of lighting and acoustics on interior environments and propose design solutions that enhance comfort and usability.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	–	2	2	3	–	–	–	–	1	2	1	3	2
CO2	3	–	2	2	3	1	–	–	1	1	2	1	3	2
CO3	3	–	2	2	3	–	–	–	–	1	2	–	3	3
CO4	2	–	1	3	3	2	2	–	1	2	2	2	2	3

Module 1: Water Supply and Sanitation Systems

Overview of water supply sources and distribution; Internal plumbing fixtures for kitchens, bathrooms, utility spaces; Sanitary fittings: sinks, basins, WCs, urinals, traps; Connection to external water sources and municipal drainage; Symbols and conventions for plumbing drawings

Module 2: Drainage and Rainwater Management

Internal and external drainage systems; Pipes, slope calculation, inspection chambers, traps, manholes; Rainwater harvesting systems – components and integration with site/interiors; Grey-water reuse possibilities in interior planning; Drafting a basic plumbing and drainage layout

Module 3: Electrical Supply and Distribution

Basics of electricity: single-phase, three-phase, voltage levels; Internal wiring types, conduits, distribution boards, MCBs, ELCBs; Planning of power circuits and lighting circuits; Placement of switches, sockets and appliances in interior layouts; Electrical safety, load estimation, and symbols

Module 4: Lighting and Acoustics in Interiors

Principles of lighting: types (ambient, task, accent), fixtures, sources (LED, CFL, halogen); Daylighting strategies and artificial lighting design; Introduction to acoustic materials and their use in ceilings, partitions, floors; Sound absorption, insulation, and reverberation control in interiors; Standards for lighting and acoustic performance in different spaces (offices, homes, cafes)

Reading Material

1. *S. Deolalikar. (2008). Plumbing Design and Practice. Tata McGraw-Hill Education.*
2. *Gary Gordon. (2015). Interior Lighting for Designers (5th ed.). Wiley.*
3. *K.B. Raina and S.K. Bhattacharya. (2010). Electrical Design Estimating and Costing. New Age International Publishers.*
4. *Bureau of Indian Standards. (2016). National Building Code of India – Part 8: Building Services. BIS.*
5. *Bureau of Indian Standards. (Latest Editions) IS Codes on Sanitation, Plumbing, and Electrical Installations. BIS.*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID213	**Furniture Design**	L – T – P	1 – 0 – 2

Course Objectives

- To introduce the historical development of furniture across cultures and time periods, examining how styles, materials, and design ideologies have shaped furniture as an expressive and functional art form.
- To explore the classification of furniture based on function, context and spatial application, emphasizing design intent, adaptability, and innovation in contemporary interiors.
- To provide students with an understanding of ergonomics and anthropometric standards for designing furniture that enhances comfort, usability and inclusivity.
- To familiarize students with materials, joinery, construction methods and sustainable practices in furniture design and manufacturing.

Course Outcomes

After completing this course, students will be able to:

CO1 : Identify key furniture styles and movements, recognize historical influences on form and function, and relate global and Indian traditions to contemporary furniture design.

CO2 : Categorize furniture types, evaluate their functional roles within various interior settings and conceptualize typological solutions that respond to space and user needs.

CO3 : Apply ergonomic principles to evaluate or propose furniture designs that suit diverse user groups and improve human-furniture interaction.

CO4 : Assess the suitability of materials and techniques for various furniture applications and propose design solutions that integrate sustainability and craftsmanship**.**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	1	2	2	1	–	–	–	1	2	3	2	1
CO2	3	2	2	2	3	1	–	–	1	–	2	2	3	2
CO3	3	–	2	2	2	–	2	–	–	–	1	1	3	3

CO4	2	2	2	3	2	1	2	–	–	–	2	2	3	3

Module 1: History and Evolution of Furniture Design
Origins of furniture in ancient civilizations (Egypt, Greece, Rome, India, China); Medieval, Renaissance, Baroque, Rococo, and Victorian furniture styles; 20th-century design movements: Bauhaus, Modernism, Postmodernism; Indian furniture heritage: colonial, vernacular, artisanal traditions; Influence of culture, politics and technology on furniture evolution

Module 2: Furniture Typologies and Functional Classifications
Classification by use: seating, sleeping, storage, tables, systems furniture; Built-in vs. movable furniture; Typologies for different spaces: residential, commercial, institutional, hospitality; Customization and modularity in contemporary furniture; Adaptable, multi-functional, and space-saving furniture solutions

Module 3: Ergonomics, Anthropometry and User-Centred Design
Principles of ergonomics and anthropometric data; Designing for posture, comfort, and movement; Human-furniture interaction in various age groups and abilities; Standards and guidelines for furniture dimensions; Case studies: chairs, workstations, kitchen modules, school furniture.

Module 4: Materials, Construction Techniques and Sustainability
Materials used in furniture: wood, metal, plastic, cane, bamboo, glass, upholstery; Joinery, hardware, and detailing; Finishes and coatings; Sustainable practices: recycled materials, low-VOC finishes, local crafts; Emerging technologies: CNC, modular kits, digital fabrication, 3D printing

Reading Material

1. *John Pile and Judith Gura. (2013). History of Interior Design (4th ed.). Wiley.*
2. *Judith Miller. (2010). Furniture: World Styles from Classical to Contemporary. DK Publishing.*
3. *Mark Hinchman. (2009). History of Furniture: A Global View. Fairchild Books.*
4. *Stuart Lawson. (2013). Furniture Design: An Introduction to Development, Materials and Manufacturing. Laurence King Publishing.*

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

SEMESTER 5

25BID301	**Interior Design Studio – III**	L – T – P	2 – 4 – 16

Course Objectives

- To develop an understanding of sustainable interior design principles, materials and practices.
- To apply sustainability concepts through hands-on studio projects, integrating passive design strategies, lifecycle thinking and adaptive reuse into functional and aesthetically appealing interior spaces.
- To design and prototype context-specific, modular and resource-conscious furniture pieces that complement sustainable interiors and respond to user needs effectively.
- To enhance proficiency in advanced digital modeling, visualization and simulation software to analyze, communicate and refine sustainable interior design proposals.
- To engage with local communities through participatory design approaches, fostering empathy and social responsibility by co-creating sustainable interior interventions that address real-world needs.

Course Outcomes

After completing this course, students will be able to:

CO1 : Analyse and evaluate sustainable interior design principles, including material selection, energy efficiency and cultural relevance, to inform responsible design decisions.

CO2 : Conceptualize and develop interior design solutions that integrate passive strategies, lifecycle approaches and adaptive reuse, demonstrating an understanding of sustainability in practice.

CO3 : Design and prototype modular, ergonomic, and resource-efficient furniture, aligned with the principles of sustainable interiors and user-specific requirements.

CO4 : Utilize advanced digital modelling, rendering, and simulation tools to effectively communicate, test and refine sustainable interior design ideas.

CO5 : Collaborate with local communities to co-create interior design interventions, addressing social, cultural and environmental needs through participatory design processes.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	2	–	3	2	2	2	–	2	–	3	3	2	3
CO2	3	2	2	3	3	3	2	2	2	–	3	3	3	3
CO3	3	1	1	2	3	2	–	2	1	–	2	2	3	2
CO4	3	–	1	2	3	2	–	2	2	–	2	–	3	2
CO5	2	3	3	3	2	2	3	3	2	–	3	3	2	3

Module 1: Sustainable interiors

Introduction to sustainable interiors; material ecology; circular design principles; LCA; energy and indoor environment; biophilic design; adaptive reuse and circular design; case studies

Module 2: Sustainable Interior Design Studio

Project brief development; site analysis; concept development; design integration; design presentation

Module 3: Furniture Design

Principles of sustainable furniture; joinery and craftsmanship; prototyping and detailing; integration with interior design scheme; hands-on workshop

Module 4: Digital Tools
Building performance simulation for thermal comfort and daylight analysis

Module 5: Seva
Engagement in skill-based, service-based, awareness-based, craft/material-based volunteering activities as a part of understanding design and social responsibility.

Reading Material

1. Abercrombie, S. (2018). *A philosophy of interior design*. Routledge.
2. Kilmer, R., & Kilmer, W. O. (2014). *Designing interiors* (2nd ed.). John Wiley & Sons.
3. Salama, A. M., & Gharib, R. A. (2012). *Designing sustainable interiors: A transdisciplinary approach*. International Journal of Sustainable Building Technology and Urban Development, 3(3), 214–222.
4. Lawson, S. (2024). *Furniture design: An introduction to development, materials and manufacturing* (2nd ed.). Laurence King Publishing.
5. Eastman, C. M. (2011). *BIM handbook: A guide to building information modeling for owners, managers, designers, engineers and contractors.* John Wiley & Sons.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID302	**Working Drawing**	L – T – P	2 – 0 – 4

Course Objectives

- To introduce students to the purpose and importance of working drawings as a primary medium for communicating design intent for execution.
- To develop the ability to prepare detailed technical drawings including plans, sections, elevations, and joinery details with appropriate conventions and standards.
- To enable integration of furniture, materials, and building services into a comprehensive working drawing set for interior projects.
- To familiarize students with the preparation of specifications and basic Bills of Quantities (BOQ) to support cost estimation and execution.

Course Outcomes

After completing this course, students will be able to:

CO1 : Prepare complete sets of interior working drawings (plans, sections, elevations, and detail drawings) for design execution.

CO2 : Apply drawing standards, conventions, and codes accurately in preparing professional-quality technical documentation.

CO3 : Integrate furniture, material specifications, and building services (lighting, electrical, plumbing, HVAC) into a coordinated set of working drawings.

CO4 : Develop project specifications and basic Bills of Quantities (BOQ) for interior works to aid in cost estimation and construction planning.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	1	2	2	3	2	–	2	1	–	2	2	3	2
CO2	3	–	2	2	3	2	–	2	1	–	2	1	3	2
CO3	3	1	2	3	3	2	–	2	1	–	2	2	3	3
CO4	3	–	3	3	2	2	1	2	1	–	3	1	3	3

Module 1: Introduction to Working Drawings
Purpose of working drawings; types of drawings; reading & interpreting drawings; drawing set preparation; hands-on practice of making working drawings of a project

Module 2: Drawing Standards, Conventions & Codes
Drafting Standards; National & International Codes; Documentation Formats

Module 3: Detailing & Integration of Furniture, Materials & Services
Interior detailing; material integration; building services; hands-on practice

Module 4: Specifications & Bill of Quantities (BOQ)
Specifications; basics of Bill of Quantities; cost estimation; hands-on practice

Reading Material

1. Ching, F. D. K. (2014). *Building construction illustrated* (5th ed.). John Wiley & Sons.
2. Ballast, D. K. (2013). *Interior construction & detailing for designers and architects* (5th ed.). Professional Publications, Inc.
3. McMorrough, J. (2018). *Architect's pocket book of professional practice* (2nd ed.). Routledge.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25ARC204	Principles of Environmental Design	L-T-P	2-0-0

Course Objectives

- To develop an understanding of the natural environment, ecology, ecosystems, biodiversity, and their relevance to architecture and human settlements.
- To analyze the impact of architecture on the environment with respect to the use of natural resources such as water, land, forests, minerals, and energy.
- To introduce students to the principles of climatology, micro/macro climate, and their role in determining human thermal comfort in buildings.
- To equip students with knowledge of passive design strategies and traditional environmental responses for achieving comfort through architecture.

Course Outcomes

After completing this course, students will be able to:

CO1 : Interpret the relationship between built and natural environments and the impact of architectural interventions on ecological systems.

CO2 : Apply basic climatological concepts, human comfort criteria and passive design techniques in architectural design decisions.

CO3 : Understand the relevance of traditional knowledge systems and sustainable practices in contemporary environmental design.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	2	3	2	2	3	–	2	–	3	3	2	3
CO2	3	2	2	3	3	3	2	–	2	–	2	2	3	3
CO3	3	3	2	3	2	2	3	–	2	–	3	3	2	3

Module 1: Natural Environment, Ecology & Resources
Natural resources; concepts of ecosystems, biodiversity and balance; coexistence of natural and built environments; resource use in the built environment

Module 2: Climatology and Macro-Micro Climate
Global climate types and classification; macro and micro-climate; site planning for climate responsiveness; solar geometry; solar radiation; earth-sun relationship; energy flow in buildings – gain, loss and balance

Module 3: Human Comfort and Thermal Environment
Human thermal comfort and factors impacting it – temperature, humidity, air movement, radiation etc; bioclimatic chart and comfort zones; traditional methods for comfort across Indian regions; airflow patterns, orientation, layout of comfort

Module 4: Passive Design and Resource Conservation
Passive cooling, heating, daylighting and ventilation techniques; natural ventilation – stack, cross, induced; shading, orientation, insulation, thermal mass; conservation strategies – water harvesting, renewable energy, energy-efficient layouts.

Reading Material
1. *Koenigsberger, O.H., Ingersoll, T.G., Mayhew, A., Manual of Tropical Housing and Building, First Edition, Orient Blackswan, 1974.*
2. Givoni, B., Climate Considerations in Building and Urban Design, First Edition, Van Nostrand Reinhold (now Wiley), 1998.
3. Olgyay, Victor, Design with Climate: Bioclimatic Approach to Architectural Regionalism, Updated Edition, Princeton University Press, 2015 (original 1963).
4. Arvind Krishan, S.V. Szokolay, Shirish Beri, et al., Climate Responsive Architecture: A Design Handbook for Energy Efficient Buildings, Second Edition, TERI Press, 2017.
5. Edward Ng (Editor), Designing for Daylight, First Edition, Earthscan (Routledge), 2010.
6. UNEP, Reports on Sustainable Architecture and Natural Resource Use, Various Reports, United Nations Environment Programme, Latest Editions (Accessed 2025), www.unep.org.
7. TERI, CEPT University, IGBC, WRI, Building Science Articles and Reports on Sustainable Architecture, Various Publications

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

25BID304	**Interior Landscape**	L-T-P	1-1-0

Course Objectives

- To introduce students to the principles of interior landscaping, including plant selection, hardscape elements and integration with interior design aesthetics.
- To develop skills for designing functional and sustainable interior landscapes that enhance spatial quality, wellbeing and environmental performance.
- To equip students with technical knowledge on lighting, irrigation, maintenance, and integration of interior landscapes with building systems.
- To encourage contextual and innovative design approaches by incorporating vernacular, biophilic, and climate-responsive interior landscape solutions.

Course Outcomes

After completing this course, students will be able to:

CO1 : Analyze interior spaces to determine opportunities for integrating landscape elements that enhance spatial and environmental quality.

CO2 : Design creative and functional interior landscapes using appropriate plants, materials and biophilic strategies.

CO3 : Apply technical knowledge of lighting, irrigation and maintenance in the preparation of interior landscape design solutions.

CO4 : Incorporate contextual, vernacular and sustainable practices in interior landscaping projects to create innovative, climate-responsive designs.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	2	1	3	2	2	2	–	2	–	2	3	2	3
CO2	3	2	2	3	3	2	–	2	2	–	2	2	3	3
CO3	3	–	2	3	3	2	–	2	1	–	2	1	3	3
CO4	3	3	2	3	2	2	3	–	2	–	3	3	2	3

Module 1: Fundamentals of Interior Landscaping

Introduction to Interior Landscaping: Role, importance, and evolution in interior design; Principles of Interior Landscaping: Aesthetic, functional, and psychological benefits (well-being, productivity, and biophilia); Spatial Analysis: Reading interior spaces, identifying opportunities for integrating plants and landscape features; Plant Selection: Classification of indoor plants (tropical, temperate, shade-loving), their growth habits, and suitability for interior environments; Hardscape & Softscape: Elements of interior landscaping (planters, water features, rocks, furniture integration).

Module 2: Design Approaches and Strategies

Design Methodology: Conceptualizing interior landscapes for different functions (residential, commercial, hospitality); Biophilic Design; Innovative Applications.

Module 3: Technical Systems for Interior Landscaping

Lighting for Interior Landscapes; Irrigation systems; Building Integration; Maintenance planning

Module 4: Contextual & Sustainable Interior Landscaping

Vernacular Landscaping Practices; Climate-Responsive Strategies; Sustainable Design Approaches; Cultural & Aesthetic Integration; Case studies

Reading Material

1. Oudolf, P., & Kingsbury, N. (2005). *Planting design: gardens in time and space*. Timber Press (OR).
2. Nelson, L. (2014). *Interior landscape design.* John Wiley & Sons.

3. Kellert, S. R., Heerwagen, J., & Mador, M. (2011). *Biophilic design: the theory, science and practice of bringing buildings to life*. John Wiley & Sons.
4. Fediw, K. (2015). *The manual of interior plantscaping: A guide to design, installation, and maintenance.* Timber Press.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%

SEMESTER 6

25BID399	**Professional Training**

Course Objectives

- To provide students with hands-on exposure to real-world interior design practice, workflows and project execution in a professional office setting.
- To develop professional competencies including client interaction, teamwork, project management and ethical conduct within the design industry.
- To bridge academic learning with industry practice by engaging students in live projects, applying their design knowledge and reflecting on their role as future professionals.

Course Outcomes

After completing this course, students will be able to:

CO1: Apply interior design principles, technical knowledge, and creative problem-solving to real-world projects in a professional office setting.

CO2 : Demonstrate professionalism through effective communication, time management, collaboration with multidisciplinary teams, and ethical conduct.

CO3: Reflect critically on their experiential learning, identifying gaps, strengths, and strategies for career development as interior design professionals.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	1	2	1	3	1	–	2	–	–	2	1	3	2
CO2	1	–	3	–	1	1	3	3	1	–	1	–	1	3
CO3	1	–	2	1	1	3	2	1	3	–	3	–	1	3

Structure of Training

Duration: Minimum 16 weeks (full-time, 5–6 days/week).

Mentorship:

- External Mentor: Interior designer in the host firm (min. 10 years of professional experience).
- Internal Mentor: Faculty advisor to monitor progress and review.

Roles & Responsibilities of the Intern

Interns are expected to be actively involved in:

1. Design & Conceptual Development
    - Assisting in preparing conceptual sketches, 3D models, and design iterations.
    - Researching precedents and compiling design references.
2. Client & Consultant Coordination
    - Attending client meetings to understand project requirements.
    - Assisting in liaison with consultants.
    - Material selection and vendor interactions.
    - Preparing presentation drawings & reports for meetings.
3. Working Drawings & Documentation
    - Drafting working drawings: plans, sections, elevations, details.
    - Assisting in preparation of BOQs, specifications and tender documentation.
4. Site Exposure
    - Conducting regular site visits with designer
    - Documenting construction progress with notes and photographs.
    - Observing quality control, materials handling and site coordination.
5. Project Management & Office Operations
    - Exposure to project scheduling, vendor interactions and procurement processes.

- Understanding professional ethics, contracts and fee structures.

Deliverables during Internship

1. Daily Logbook:
    a. A record of tasks completed, meetings attended, site visits and key learnings (signed weekly by the office mentor).
2. Monthly Progress Reports:
    a. Submitted to the internal faculty mentor with summary of work completed and reflections.
3. Final Internship Portfolio:
   To be submitted at the end of training, including:
    a. Introduction to the firm: structure, specializations, notable projects.
    b. Detailed documentation of contributions: design iterations, drawings, BOQs, specifications, presentation decks.
    c. Site visit reports: with photos, sketches, and analysis.
    d. Reflections on client/consultant interactions: insights into teamwork and communication.
    e. Learning outcomes: technical, managerial, and professional growth.
4. Viva-Voce:
    a. Final evaluation based on portfolio and oral presentation to an internal jury.

Reading Material

1. Cuff, D. (1991). Architecture: The Story of Practice. MIT Press.
2. Martin, C. S., & Guerin, D. A. (2010). The Interior Design Profession's Body of Knowledge and Its Relationship to People, the Environment, and the Interior Design Profession. NCIDQ Foundation.
3. Pressman, A. (2021). Professional Practice 101: Business Strategies and Case Studies in Architecture. Routledge.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	20%
End-Semester Jury	External	80%

SEMESTER 7

25BID401	Interior Design Studio – IV	L – T – P	2 – 4 – 16

Course Objectives

- To enable students to understand the cultural significance of heritage interiors and apply conservation principles for their preservation and adaptive reuse.
- To develop the ability to redesign existing spaces for new functions while integrating cultural, social and functional considerations.
- To enable students to understand structural systems and material technologies in heritage buildings and effectively integrate new materials, structural reinforcements and modern services while maintaining spatial and aesthetic integrity.

Course Outcomes

After completing this course, students will be able to:

CO1 : Analyze heritage interiors and propose contextually appropriate conservation strategies.

CO2 : Conceptualize and document adaptive reuse projects with creative and sustainable interior design solutions.

CO3 : Evaluate existing building systems and propose appropriate interventions for new structural, material, and service integrations in adaptive reuse projects.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	1	3	2	2	3	1	1	–	2	3	2	3
CO2	3	2	3	3	3	2	2	3	1	2	3	2	3	3
CO3	3	2	3	3	3	1	1	2	1	2	3	1	3	3

Module 1: Heritage & Conservation

Introduction to heritage & its values in interiors; principles of conservation: restoration, preservation, adaptive reuse; UNESCO charters; Indian conservation policies; role of INTACH; traditional interior elements & materiality (wood, stone, lime plasters, handmade tiles); case studies: restored palaces, havelis and colonial interiors

Module 2: Adaptive Interiors Studio

Adaptive reuse: purpose, scope, and design challenges; design process: site analysis, user profiling, space reprogramming; integrating aesthetics with functionality in reprogrammed spaces; studio project: redesign of an existing building with a new use; interior detailing

Module 3: Integration of Technology in Design

Understanding existing building technology; material diagnostics; structural interventions; material upgrades; case studies

Reading Material

1. Feilden, B. M. (2003). *Conservation of historic buildings* (3rd ed.). Routledge.
2. Jokilehto, J. (2017). *A history of architectural conservation*. Routledge.
3. Douglas, J. (2006). *Building adaptation* (2nd ed.). Butterworth-Heinemann.
4. Bullen, P. A., & Love, P. E. D. (2011). *Adaptive reuse of heritage buildings*. Structural Survey, 29(5), 411–421.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID402	**Integrated Building Systems for Interiors - II**	L – T – P	2 – 1 – 2

Course Objectives

- To introduce students to the fundamentals of HVAC systems and their integration in interior environments.
- To familiarize students with building automation systems for energy efficiency, safety, and comfort.
- To develop an understanding of IoT applications in interiors for enhanced functionality and user experience.

Course Outcomes

After completing this course, students will be able to:

CO1 : Identify and analyze HVAC systems and propose their integration into interior spaces.

CO2 : Interpret and incorporate building automation systems for improved performance and comfort.

CO3 : Assess and apply IoT-based solutions to enhance interior environments.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PSO1**	**PSO2**	**PSO3**
CO1	3	–	2	3	3	1	–	–	–	2	2	1	3	3
CO2	3	–	3	3	3	1	1	2	–	2	3	1	3	3
CO3	3	1	3	3	3	1	1	2	–	2	3	1	3	3

Module 1: HVAC Systems for Interiors

Basics of thermal comfort: temperature, humidity, air movement; types of HVAC systems: split units, VRF, ducted systems, chilled water systems; integration with interiors: ducts, false ceilings, grilles, placement of units and aesthetics.

Module 2: Building Automation Systems

Overview of Building Automation Systems: purpose and components; controls for HVAC, lighting, fire detection, access and security; energy management, zoning and scheduling for interior spaces.

Module 3: IoT in Interiors

Principles of IoT and smart devices in interiors; IoT-enabled elements: lighting, appliances, sensors, and personalized controls; ethical considerations and future trends in smart interior environments.

Reading Material

1. McDowall, R. (2007). *Fundamentals of HVAC systems*. Butterworth-Heinemann.
2. Sinopoli, J. M. (2010). *Smart building systems for architects, owners, and builders*. Butterworth-Heinemann.
3. ASHRAE. (2021). *ASHRAE Handbook: HVAC Systems and Equipment*. ASHRAE.
4. Loy, D., & Dibley, J. (2019). *Smart buildings: Advanced controls and performance measurement*. Routledge.
5. Gubbi, J., Buyya, R., Marusic, S., & Palaniswami, M. (2013). Internet of Things (IoT): A vision, architectural elements, and future directions. *Future Generation Computer Systems, 29*(7), 1645–1660.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID403	Research in Design	L – T – P	1 – 1 – 0

Course Objectives

- To develop an understanding of the role and relevance of research in interior design as a foundation for evidence-based and user-centered design solutions.
- To gain exposure to qualitative and quantitative research methods for exploring spatial, cultural, behavioural and functional aspects of interiors.
- To acquire skills in data collection, analysis and interpretation to generate insights that inform design strategies.
- To learn to translate research into design proposals, articulating findings effectively through structured reports, visuals and presentations in preparation for design thesis.

Course Outcomes

After completing this course, students will be able to:

CO1 : Identify and frame research problems relevant to interior design.
CO2 : Apply appropriate research methods to gather qualitative and quantitative data.
CO3 : Analyze and synthesize research data into actionable insights for design.
CO4 : Develop a structured research proposal as a precursor to the design thesis.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	2	2	2	3	2	1	3	-	2	3	2	2
CO2	3	3	2	3	3	2	2	2	3	-	2	3	3	2
CO3	3	3	2	3	3	3	2	2	3	-	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	-	3	3	3	3

Module 1: Introduction to Design Research
Understanding research in design, why designers need research; types of design research: exploratory, descriptive, experimental and applied; qualitative vs. quantitative approaches; literature review; framing research problems; defining scope, research objectives and research questions; ethics in research and intellectual property

Module 2: Research Methods for Interior Design
Contextual inquiry & ethnographic studies: observation, interviews, focus groups; user-centered research: understanding human behaviour, needs and experiences in interiors; visual research: photo documentation, drawing, mapping and pattern analysis; surveys & questionnaires: designing effective instruments for user data; case studies: documenting and analysing existing projects

Module 3: Data Collection & Analysis
Qualitative analysis: coding, categorization, narrative analysis; quantitative analysis: basic statistics, coding survey data, interpreting results; basic tools for analysis; translating research data into design insights; structuring findings for communication: diagrams, infographics, storyboards

Module 4: Research to Design Translation

From research insights to design concept development; evidence-based design: using research to support spatial decisions; writing a research report: structure, citations and visual presentation; preparing a research proposal for the thesis: objectives, methodology, deliverables

Reading Material

1. Groat, L., & Wang, D. (2013). *Architectural Research Methods.* John Wiley & Sons.
2. Zeisel, J. (2006*). Inquiry by Design: Environment/Behavior/Neuroscience in Architecture, Interiors, Landscape, and Planning*. W. W. Norton & Company.
3. Creswell, J. W. (2014). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications.
4. Kumar, R. (2019). *Research Methodology: A Step-by-Step Guide for Beginners*. Sage Publications.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

SEMESTER 8

25ARC504	**Design Entrepreneurship**	L – T – P	1 – 1 – 0

Course Objectives

- Develop an understanding of entrepreneurship in design, exploring business models, markets, and opportunities in the design industry.
- Learn strategic, financial, and operational aspects of setting up and managing a design practice or creative enterprise.
- Acquire skills in branding and digital marketing for design services and products.
- Build a comprehensive business plan or entrepreneurial project proposal as a capstone outcome to prepare for independent practice.

Course Outcomes

After completing this course, students will be able to:

CO1 : Demonstrate knowledge of entrepreneurial concepts, business models and legal frameworks for design enterprises.

CO2 : Apply financial planning, resource management, and operational strategies for design practice or creative start-ups.

CO3 : Develop and implement a branding and digital marketing strategy for a design enterprise.

CO4 : Create a comprehensive business plan or entrepreneurial project proposal aligned with industry opportunities.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	3	2	3	–	3	2	3	3
CO2	3	2	3	3	3	2	2	2	3	–	3	2	3	3
CO3	3	2	3	3	3	2	3	3	3	–	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	–	3	3	3	3

Module 1: Introduction to Design Entrepreneurship
Entrepreneurship in the creative economy: opportunities in interior design; business models: sole proprietorship, partnerships, start-ups, and design collectives; understanding intellectual property rights and legal aspects for designers.

Module 2: Financial and Operational Strategies
Basics of financial planning, budgeting, and pricing for design services/products; funding options: self-funding, investors, grants, and design incubators; operations management: project workflows, human resources and procurement

Module 3: Branding and Digital Marketing
Personal and business branding: building a unique identity in the design market; digital marketing strategies: social media campaigns, SEO, content marketing, portfolio websites, influencer collaborations and paid advertising; case studies of successful design brands using digital platforms.

Module 4: Capstone – Business Plan Development
Researching market needs and identifying opportunities; preparing a business plan: vision, mission, objectives, financial projections and growth strategy; pitching the business plan: communication, storytelling and presentation skills

Reading Material

1. Brown, T. (2009). *Change by Design: How Design Thinking Creates New Alternatives for Business and Society*. Harper Business.
2. Osterwalder, A., & Pigneur, Y. (2010). *Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers*. John Wiley & Sons.
3. Ryan, D. (2016). *Understanding Digital Marketing: Marketing Strategies for Engaging the Digital Generation*. Kogan Page.
4. Kelley, T., & Littman, J. (2005). *The Ten Faces of Innovation: IDEO's Strategies for Defeating the Devil's Advocate and Driving Creativity Throughout Your Organization.* Currency/Doubleday.
5. Kuratko, D. F. (2016). *Entrepreneurship: Theory, Process, and Practice*. Cengage Learning.

Evaluation Pattern

Assessment	Internal/External	Weightage
Continuous Assessment	Internal	30%
Mid-term jury	Internal	20%
End-semester jury	External	50%

25BID412	**Design Management and Professional Practice**	L – T – P	1 – 1 – 0

Course Objectives

- Develop an understanding of design management processes, roles and responsibilities in professional interior practice.
- Learn project delivery frameworks, documentation standards and legal/contractual aspects of interior projects.
- Acquire skills in client relationship management and stakeholder collaboration for effective practice.

- Build professional competencies for career readiness, including portfolio development, communication and ethical practice.

Course Outcomes

After completing this course, students will be able to:

CO1 : Demonstrate understanding of design management principles, professional ethics and organizational structures in interior practice.

CO2 : Apply project management tools for planning, executing, and monitoring interior design projects.

CO3 : Manage client relationships effectively, from negotiations to conflict resolution, ensuring client satisfaction and project success.

CO4 : Prepare professional portfolios aligning with industry standards for employability or practice.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	3	2	3	–	3	2	2	3
CO2	3	2	3	3	3	2	2	3	3	–	3	2	3	3
CO3	2	2	3	2	3	2	3	3	3	–	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	–	3	3	3	3

Module 1: Principles of Design Management

Overview of design management in interior practice; roles, responsibilities and organizational structures in design firms; time management, resource allocation and multidisciplinary collaboration; codes of ethics and professional conduct

Module 2: Project Delivery and Documentation

Project lifecycle in interior design: from concept to handover; contracts, tenders, RFPs and MoUs; BOQ preparation, costing, scheduling and quality control; documentation standards: working drawings, technical specifications, and reports

Module 3: Client Management

Understanding client psychology and expectations; negotiation skills, presentation techniques and communication strategies; conflict management and dispute resolution; case studies of client-designer relationships in complex projects

Module 4: Professional Readiness and Career Building

Portfolio development and personal branding for employability; networking, professional associations and continuous learning; transitioning to independent practice or higher education

Reading Material

1. Emmitt, S. (2014). *Design Management for Architects*. John Wiley & Sons.
2. Pressman, A. (2020). *Professional Practice 101: Business Strategies and Case Studies in Architecture.* Routledge.
3. Ramsay, P., & Hughes, W. (2016). *Construction Law and Management*. Routledge.
4. Piotrowski, C. M., & Rogers, E. A. (2012). *Professional Practice for Interior Designers.* John Wiley & Sons.
5. Linton, I., & Bourne, P. (2015). *Successful Project Management.* Kogan Page.

Evaluation Pattern

Assessment	Internal/External	Weightage

Continuous Assessment	Internal	30%
Mid-term examination	Internal	20%
End-semester examination	External	50%