

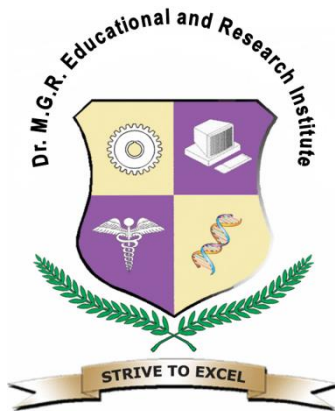
FACULTY OF ARCHITECTURE

(CA / 5 / Academic - TN41 dt. 28.07.11)

Dr. M.G.R

**EDUCATIONAL & RESEARCH INSTITUTE
UNIVERSITY**

(Declared as Deemed -to- University, u/s. 3 of UGC Act 1956)



M.Arch

Interior Architecture

SYLLABUS - 2016

Approved by BOS vide meeting Dt: 03.06.2016

Sponsored by,

**Dr. M.G.R. Educational and Research Institute Trust,
Chennai – 600 095**

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M.ARCH Interior Architecture

SEMESTER - I

Code No	COURSE TITLE	L	T	P/S	C
THEORY					
MAR16I001	Basic Environmental science for Interiors	2	0	0	2
THEORY CUM STUDIO					
MAR16I002	Theory of aesthetics & Concepts of Design	1	0	2	2
MAR16I003	Interior Design Materials & Construction - I	1	0	2	2
MAR16IIL1	Advanced CAD	1	0	3	3
STUDIO					
MAR16IIL2	Workshop - I	0	0	5	3
MAR16IL01	Interior Design Studio - I	0	0	13	7
	Sub Total	5	0	25	19

SEMESTER - II

Code No	COURSE TITLE	L	T	P/S	C
THEORY					
MAR16I004	Theory & history of Interior Design	2	0	0	2
THEORY CUM STUDIO					
MAR16I005	Interior Design materials & Construction – II	1	0	2	2
MAR16I006	Building service systems for Interiors	2	0	0	2
MAR16I007	Furniture Design & Detailing	1	0	2	2
STUDIO					
MAR16IIL3	Critical Research Seminars	0	0	3	2
MAR16IIL4	Workshop – II	0	0	3	2
MAR16IL02	Interior Design Studio – II	0	0	14	7
	Sub Total	6	0	24	19

SEMESTER - III

Code No	COURSE TITLE	L	T	P/S	C
THEORY					
MAR16I008	Graphic communication & Signage	2	0	0	2
THEORY CUM STUDIO					
MAR16I009	Ergonomics & Product Designing	1	0	2	2
MAR16I010	Lighting Design	1	0	1	2
	Elective - I	1	0	1*	2
STUDIO					
MAR16IL03	Dissertation	0	0	7	4

MAR16IL04	Interior Design Studio - III	0	0	14	7
	Sub Total	5	0	25	19

SEMESTER - IV

Code No	COURSE TITLE	L	T	P/S	C
THEORY					
MAR16I011	Interior Project Management & Practice	2	0	0	2
	Elective - II	*		*	2
STUDIO					
MAR16IL05	Interior Design Studio - IV Thesis	0	0	**	14
	Sub Total	4	0	**	18

** Undeterminable Number of Hours, It may be 25 - 30 hrs duration/ week. p

* As per Elective

ELECTIVE

		COURSE TITLE	L	T	P/S	C
THEORY CUM STUDIO						
SEMESTER - III	MAR16IE01	Interior Landscaping	1	0	2	2
	MAR16IE02	Traditional Indian Spaces	1	0	2	2
	MAR16E009	Research Methodologies In Architecture	2	0	0	2
THEORY						
SEMESTER - IV	MAR16IE04	Psychology & Human Behavior	2	0	0	2
	MAR16IE05	Interior Photography	1	0	0	2

Total No of Credits: 75

Minimum marks for passing in each subject - 50%

Weightage for Internal Exam - 50%

Weightage for University Exam - 50%

For STUDIO Project & Dissertation - Internal Assessment - 50%

- External Viva - 50%

For Advance CAD, Workshops & Seminars the assessment shall be only Internal.

SEMESTER – I

MAR16I001 BASIC ENVIRONMENTAL SCIENCE FOR INTERIORS L T P C
2 0 0 2

UNIT I THERMAL COMFORT 10

Thermal comfort in interior spaces, comfort zone, thermal neutrality, thermal indices – metabolic rate, clothing insulation, air temperature, mean radiant temperature, air speed, relative humidity, predicted mean vote (PMV).

Significance of thermal comfort, sick building syndrome, indoor air quality.

Factors influencing thermal comfort, operative temperature. Thermal comfort models – Elevated air speed method, Local thermal discomfort, adaptive comfort model. Thermoregulation – physiological, behavioural. Effects of natural ventilation on thermal comfort. Thermal comfort in different regions. Thermal stress.

UNIT II LIGHTING 10

History of lighting, Light fixtures – types and characteristics. Types of lighting – task, accent & general lighting and its methods. Forms of lighting – indoor & outdoor. Lamps – ballast, fluorescent, halogen, neon, LED & CFL. Photometric studies. On stage & set lighting. Photometry – Illuminance, Luminance, Lux. Color properties – colour temperature, color rendering index.

UNIT III ACOUSTICS 10

History of acoustics, fundamental concepts of acoustics, sound propagation, frequency, transduction in acoustics. Acoustic material, properties and sound absorbents.

TOTAL: 30 PERIODS

REFERENCES:

1. Building Systems: Design Technology and Society. By Kiel Moe, Ryan.E.Smith
2. Fundamentals of Lighting, 2nd Edition by Susan M. Winchip
3. Handbook of Acoustics by Malcolm J. Crocker
4. The Theory of Sound, Volume One: Unabridged Second Revised Edition by J. W. S. Rayleigh
5. Theoretical Acoustics by Philip McCord Morse

**MAR16I002 THEORY OF AESTHETICS & CONCEPTS OF DESIGN LT P C
1 0 2 2**

UNIT I INTRODUCTION TO AESTHETICS 10

History of aesthetics – greek, indian, African, arab& western medieval aesthetics. Modern aesthetics – AG Baungarten, Fredrick Wilhelm, Joseph, Schelling, Adolf Loos, Aesthetic realism. Aesthetics & science.

Introduction to the western aesthetics & Indian Aesthetics
Relating to the spaces, surfaces and interior designing with aesthetics
Study of relation between the traditions of architecture & aesthetics

UNIT II CRITICAL JUDGEMENT & COGNITIVE LEARNING 10

Understanding the concept of critical judgment
Design related cognitive learning

UNIT III ADVANCED STUDY ON COLOUR 10

Physics of colour, spectral colours, colour of objects. Perception, Theories of colour – Trichromatic theory. Additive & Subtractive colours. Traditional colour theories, colour wheel, RYB colour model, Warm & cool colours, tint and shades, colour harmony. Psychology of colour, Color & mood, Principles of color psychology, brand meaning.

UNIT IV SPACE & FORM 15

Principles of design – Unity, harmony, balance, hierarchy, scale & proportion, emphasis, similarity & contrast.
Line, colour, shape, texture, space, form, material.

TOTAL : 45 PERIODS

REFERENCES:

1. Colour in Interior Design, Pile.
2. Lighting Spaces – Yee. VRP Publications
3. The Fundamentals of Interior Architecture, Coles ,AVA
4. <http://plato.stanford.edu/entries/aesthetic-judgment/>
5. Essay: Beatriz Colomina . Sexuality and space: The split wall: Domestic Voyeurism,
6. Essay: Mark Wigley, White Walls, Designer Dresses: The Fashioning of Modern Architecture.
7. Essay: WILLIAM W. BRAHAM. A Wall of Books: The Gender of Natural Colors in Modern Architecture
8. Colour Harmony, Bride M Whelan
9. Essay: Adolf Loos “Ornament and Crime” 1908
10. Essay: Adolf Loos: Spoken into void – Collected Essays 1897 – 1900 : The principles of cladding

MAR16I002	INTERIOR DESIGN MATERIALS & CONSTRUCTION - I	L T P C 1 0 2 2
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UNIT I	WOOD	10
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Physical properties – growth rings, knots, heart wood and sap wood. Colour, water content, structure. Hard wood and soft wood. Joineries – dovetail, scissor joint etc., Uses & defects of wood.

UNIT II	METAL	10
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Ferrous & non ferrous metals – steel, copper, brass. Steel – material properties, types of steel, treatments, history of steel making. Copper – physical characteristics, history, applications, degradation. Brass – physical properties, corrosion resistance, history, applications.

UNIT III	STONE	10
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Natural & engineered stones. Granite –types of granite – based on composition, finishes. Uses of granite. Marble – composition & physical characteristics, finishes. Uses & applications of marble. Engineered stones – composition, properties. Uses & applications.

UNIT IV	CASE STUDY & PORTFOLIO	15
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Consolidated study of the above material application in the form of portfolio.

TOTAL : 45 PERIODS

REFERENCES:

1. Construction materials for interior design:
2. principles of structure and properties of materials
3. By, William Rupp, Arnold Friedmann, Philip F. Farrell
4. Modern projects in wood, metal, & plastics, Patrick E. Spielman

MAR16IIL1	ADVANCED CAD	L T P C 1 0 3 3
UNIT I	3D MODELING & RENDERING	15
3D Modeling using Revit, auto cad .Wire frame , surface & solid modeling. Rendering using 3DSMax & Presentation Techniques		
UNIT II	WALKTHROUGH	15
Presentation through still images & walkthrough		
UNIT III	GRAPHICS	15
Adobe Photoshop & Illustrator for graphic design & corrections Aldus Photostyle, Abobe premiere sound forge, Director & razor pro for A-V Editing Alternative softwares – Accu render, Artisan, Spotlight ray tracer .		
UNIT IV	SIMULATION SOFTWARE	15
Light scape; CATIA ; Eco Software .		
		TOTAL: 60 PERIODS

REFERENCES:

1. Mastering Autodesk Revit Architecture 2013
2. Phil Read, James Vandezande , Eddy Krygiel
3. Interior Design Visual Presentation: A Guide to Graphics, Models and Presentation
4. Published in 2012 by Wiley

MAR16IIL2	WORKSHOP - I	L T P C 0 0 5 3
UNIT I	WOOD & JOINERY	20
Working with wood & wood products to understand material parameters Wood Joinery Details		
UNIT II	CARPENTARY FINISHES	20
Application of veneer / laminates on different timber surfaces Wood polishing, painting and other finishes		
UNIT III	ORNAMENTAL DETAILING	20
Engraving & carving		
UNIT IV	CANE	15
Types of cane & its properties – joinery & its finishes Colour & surface quality		

TOTAL: 75 PERIODS

REFERENCES:

1. Workshop Idea Book (Taunton Woodworking), By Andy Rae
2. The Complete Book Of Wood Joinery, By R. J. DeCristoforo
3. Metal Craft Discovery Workshop, By Linda O'Brien, Opie O'Brien

MAR16IL01

INTERIOR DESIGN STUDIO - I

L T P C
0 0 13 7

Resolving complex issues in interior spaces through design language

Evolving method of studies, analysis & design process.

Institutional spaces & Exhibition Displays

TOTAL: 195 PERIODS

REFERENCES:

1. Rethinking Design and Interiors: Human Beings in the Built Environment, By Sashi Caan.
2. Interior Design -John Pile; Harry . N.Abraham, Inc. Publishers.
3. Interior design Illustrated; Francis.D.K.Ching.
4. Time Saver standards for Interior Design & Space Planning – Joseph de Chiara,Julius Panero, and Martin Zelnic – 2003.

SEMESTER - II

MAR16I004 THEORY & HISTORY OF INTERIOR DESIGN L T P C
2 0 0 2

UNIT I UNDERSTANDING STYLES & THEORIES OF INTERIOR DESIGN 8

Categorizing design into key elements, including space, light, display, storage, and offering new terminology to describe each area, the author breaks new ground in the field of interior design in an approach that brings vitality and clear communication to a misunderstood and often free-wheeling design discipline.

UNIT II UNIVERSAL DESIGN MOVEMENTS 8

Landmark events in the history of international design movement historical development of artifact overview of major styles like Regency, Colonial, Romanticism, Art Nouveau, Eclecticism, Art Deco, Cubism, Modernism, Late Modernism, Post Modernism & Deconstructivism.

UNIT III MODERN DESIGN MOVEMENTS IN INDIA 8

Industrialization changes in technology and production systems impact on lifestyle & interiors Modern movement & its impact in India Shift from historical to modern methods of building spaces, change in the interior elements of design Elements of Interior Design.

UNIT IV INDIAN STYLES IN INTERIOR DESIGN 6

Indian Elements of space making – Concepts of Traditional symbols and spatial organization. Creative and ethnic approaches to interior elements and its adaptations in the Contemporary design methods. The adaptive re-use of Architectural Built forms for the modern Interiors.

TOTAL: 30 PERIODS

REFERENCE:

1. A History of Interior Design -John Pile; Harry . N.Abraham, Inc. Publishers.
2. Interior design Illustrated; Francis.D.K.Ching.
3. History of Interior Design – 2nd edition – 2005 – John Wiley & Sons.Inc
4. Handbook of Human Factors & Ergonomics – Gavriel Salvendy
5. Geoffrey Broadbent – Design in Architecture – Architecture & the human sciences – John Wiley & Sons , New York , 1981.
6. Nigel Cross – Developments in Design Methodology, John Wiley & Sons.1984

MAR16I005 INTERIOR DESIGN MATERIALS & CONSTRUCTION – II L T P C
1 0 2 2

UNIT I GLASS 10

Types of Glass, ingredients, properties & application. Stained glass.
 Glass in Green Buildings.

UNIT II PLASTICS 10

History, types of plastics. Polystyrene, Nylon, Rubber and its properties. Environmental effects of plastics. Recycling of plastic. Common plastics and its uses.
 Types of moulding plastics – blow moulding, extrusion moulding, injection moulding.

UNIT III TEXTILES 10

Role of textiles in interior design. Properties and applications.

UNIT IV Materials for finishes 15

Miscellaneous materials such as linoleum, asphalt, cork, rubber, leather, paper, rexine, paints & varnishes, laminates & veneers.

TOTAL: 45 PERIODS

REFERENCES:

1. Construction materials for interior design: principles of structure and properties of materials
2. William Rupp, Arnold Friedmann, Philip F. Farrell
3. Inside: interiors of colour, fabric, glass, light . By,Sibylle Kramer, Iris van Hülst

**MAR16I006 BUILDING SERVICE SYSTEMS FOR INTERIORS L T P C
2002**

UNIT I WATER SUPPLY & SANITATION 8

Comprehensibility of all the building services - water supply, plumbing - implications on interior layout

UNIT II HVAC 8

HVAC , Air Conditioning methods & equipments - Air distribution system - Calculation of Ac loads

UNIT III REGULATIONS OF SAFETY & SERVICES 8

Regulations of NBC for all the services mentioned

Fire fighting systems

UNIT IV BUILDING SERVICES AND DESIGN SOLUTIONS 6

Understanding all services & their components - studio work for proposals with emphasis to above services for small as well as large scale projects

TOTAL: 30 PERIODS

REFERENCES:

1. Managing Water Supply and Sanitation in Emergencies (Oxfam Skills and Practice Series) by John Adams (Nov 1, 1999)
2. Building Services Handbook by Fred Hall and Roger Greeno
3. HVAC Design Sourcebook by W. Larsen Angel

MAR16I007	FURNITURE DESIGN & DETAILING	L T P C 1 0 2 2
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UNIT I	HISTORY & CONCEPTS OF FURNITURE DESIGN	10
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History of furniture from early days to industrial revolution.

Study of various styles, systems & products available in the market.

UNIT II	THEORY OF FURNITURE DESIGN & DESIGN PARAMETERS	10
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Descriptive & normative theories, intensive studies of furniture, theory of manufacturing and usability, beauty and aesthetics of furniture, semiotics of furnitures, aesthetics of furnitures.

UNIT III	MATERIALS IN FURNITURE DESIGN	10
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Bentwood, tubular steel, plywood, chipboard, plastics, paper. Its properties, applications and designers who patronized them.

UNIT IV	TRENDS IN FURNITURE DESIGN	15
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Marcel Bruer, Harry Bertoia, Mario Bellini, Achille Castiglioni, Antonio Citterio, John Cobb, Joe Colombo, Ray & Charles Eames, Tom Dixon, Gio Ponti, Arne Jacobsen, Florence Knoll, Ross Lovegrove, Mackintosh, Enzo Mari, Verner Panton, Jean Provue, Patricia Urquiola, Philippe Starck, Karim Rashid.

TOTAL : 45 PERIODS

REFERENCES:

1. Furnish – Furniture & Interior Design for the 21st Century – Sophie Lovell
2. Product design: Tucker Veimeistu
3. Product design & manufacturing: John R Lindbeck

MAR16IIL3**CRITICAL RESEARCH SEMINARS****L T P C
0 0 3 2****RESEARCH METHODS**

Introduction to the nature & purpose of research and its role in problem solving and theory in the field of interiors.

Discussion of various principles & approaches to research

SUGGESTED AREAS OF RESEARCH

Studies of indian art & craft. Influence of location, tradition, culture and socio-economic development on art & craft in rural and urban india. Visit to traditional craft pockets, documenting people, life, culture & craft and understand the materials, tools, technology, processes and forms. Suggest suitable changes in the technology to improve the products so as to make it acceptable in today's context. Approach & techniques for conservation, maintenance and management of conserved buildings and Landscape.

- Studies of work of different interior designers through observation, interview, and research. Understanding the concepts of space, structure, organisation, symbolism, form, colour, modes of presentation etc.
- The student may choose any other area of interest in consultation with the concerned faculty for research. The study would be presented has term with supporting illustrations. It will be periodically reviewed and presented as a seminar for final assessment.
- In the course of the semester students shall present 3 seminars on approved subjects and each shall be assessed internally. Students are also encouraged to publish their subjects of research.

TOTAL: 45 PERIODS**REFERENCES:**

1. Research Methods and Statistics: A Critical Thinking Approach by Sherri L. Jackson
2. Design Research: Methods and Perspectives by Brenda Laurel and Peter Lunenfeld
3. Nigel Cross – Developments in Design Methodology, John Wiley & Sons.1984.

MAR16IIL4**WORKSHOP - II****L T P C
0 0 3 2****UNIT I CERAMICS****15**

Understanding of ceramic products for interior spaces. Processes and techniques of forming & decorating ceramics slab work, throwing, pinching, coil work and firing. Colour pigments and design qualities. Making ceramic tiles, plaster slab and carving

UNIT II METALS**15**

Types of metals, properties, methods of working with metals, fixing and joinery in metals, finishing and treatment of metals. Metal products & furniture forms used in interiors

UNIT III PLASTICS**15**

Plastic, F.R.P and acrylic products – design process, tools & technology development of innovative forms for interiors elements with colour variations.

TOTAL: 45 PERIODS**REFERENCES:**

1. The Workshop Guide to Ceramics: A Fully Illustrated Step-by-Step Manual: Techniques and Principles of Design by Duncan Hooson and Anthony Quinn
2. Sheet Metal Work (Workshop Practice Series, No. 8) by R. E. Wakeford

MAR16IL02

INTERIOR DESIGN STUDIO – II

L T P C
0 0 14 7

Resolving complex issues in interior spaces through design language

Evolving method of studies, analysis & design process.

Commercial spaces. Barrier free interiors. Interiors for children or the elderly

TOTAL: 210 PERIODS

REFERENCES:

1. The Fundamentals of Interior Architecture, Coles ,AVA
2. Interior Design -John Pile; Harry . N.Abraham, Inc. Publishers.
3. Interior design Illustrated; Francis.D.K.Ching.
4. Time Saver standards for Interior Design & Space Planning – Joseph de Chiara,Julius Panero, and Martin Zelnic – 2003.

SEMESTER - III

**MAR16I008 GRAPHIC COMMUNICATION & SIGNAGE L T P C
2 0 0 2**

UNIT I GRAPHIC COMMUNICATION 8

History of communication- graphics, communication, visual communication & communication design. Graphic design- typography, visual arts, page layout. Graphic representation, graphicacy.

UNIT II VISUAL COMMUNICATION SYSTEMS 8

Gestalt Theory, Aldous Huxley. Image analysis & its perspectives. Visual Aids & its types. Visual aids media- simple to advanced.

UNIT III SIGNAGES & AUDIO VISUALS 8

History of signages. Functions of signs. Sign technologies- banner, bill boards, digital signs, street signs, neon signs, LED signs. Digital signs & its different applications.

Graphics & Image making – audio visuals and graphic systems.

UNIT IV GRAPHIC AS A SPACE 8

Graphic as a space – making element. Graphic as space transforming element.

TOTAL: 30 PERIODS

REFERENCES:

1. Graphic Communications Today, 4E (Design Concepts),William E Ryan, Theodore E. Conover
2. Signage Systems and Information Graphics ,Andreas Uebele
3. Technical Graphics Communication,Gary Robert Bertoline, Eric N. Wiebe
4. Signage Design Manual,Edo Smitshuijzen
5. Bob Gordon and Maggie Gordon – Digital Graphic Design – Thames & Hudson
6. Louise Bowen Ballinger – Perspective Space & Design – Van Nostrand Reinhold Company
7. Fred A Stitt – System Graphics – Mcgraw Hill Company

MAR16I009	ERGONOMICS & PRODUCT DESIGN	L T P C 1 0 2 2
UNIT I	ERGONOMICS	5
Introduction to ergonomics & human factor design. Domains of specialization in the discipline of ergonomics. Methods of analysis.		
UNIT II	PRODUCT DESIGN	9
Product design process. Trends in product design. History of industrial design. Examples of iconic industrial design. Product development & its stages.		
UNIT III	FABRICATION	8
Manufacturing & fabrication. Prefabrication & its advantages. Composite fabrication, metal fabrication, micro fabrication & optics fabrication. Rapid proto typing, solid free form fabrication.		
UNIT IV	DIGITAL MODELING & FABRICATION	8
Machines for fabrication- CNC router, laser cutter, 3D printers. Softwares for modeling- Blender, Form Z, Rhinoceros 3D, Cadwork, 3D Studio Max, Sketchup.		

TOTAL: 30 PERIODS

REFERENCES:

1. Product Design: Tucker Veimeistu
2. Product Design & Manufacturing - John R Lindbeck
3. Furnish – Furniture & Interior Design for the 21st Century – Sophie Lovell
4. Handbook of Human Factors & Ergonomics – Gavriel Salvendy

MAR16I010 **LIGHTING DESIGN** **L T P C**
1 0 1 2

UNIT I **LIGHT – AS A DESIGN PARAMETER** **7**

Daylighting, Daylight factor, reflection, refraction, Light tube, light shelves, light reflectors, Photometry – Illuminance, Luminance, Lux. Color properties – colour temperature, color rendering index, Lumen, luminous flux, light pressure.

UNIT II **LIGHTING DESIGN** **9**

Specification of illumination requirements for each given use area-Analysis of lighting quality - Designing illumination for complex project types, including analysis of lighting criteria, development of design concepts and complete documentation requirements.

UNIT III **LIGHTING SYSTEMS, ENERGY CONSUMPTION & AUTOMATION** **7**

Illumination- light fixtures, methods of lighting, forms of lighting- indoor & outdoor. Lamps, fixtures and its types. Lighting systems, light pollution- energy consumption, light exposure. Lighting control systems for buildings. Smart lighting- minimizing energy usage, major techniques of smart lighting.

UNIT IV **LIGHT as ART** **7**

Light art, Light sculptures. Examples of light art works by Chul Hyun Ahn, Dan Flavin, Olafur Eliasson, James Turrel, W.A. Traut Cooper, Bruce Munro, Dan Roosegaarde+

TOTAL: 30 PERIODS

REFERENCES:

1. Architectural Lighting Design by Gary R. Steffy
2. The Architecture Of Light: A textbook of procedures and practices for the Architect, Interior Designer and Lighting... by Sage Russell
3. Interior Lighting for Designers, 4th Edition by Gary Gordon (Jan 28, 2003)

MAR16IL03**DISSERTATION****L T P C
0 0 7 4**

The topic chosen should be related to the design thesis and may involve the following areas of study in four stages:

An in depth investigation into any aspect of the chosen area

Analysis of data, inferences to establish underlying principles

Evaluation of existing theory in new concepts

Establishment of a hypothesis and its substantiation

The particulars of schedule, content presentation, format etc, as decided by the department from time to time, shall be strictly followed. The progress will be periodically reviewed by internal jury members.

TOTAL: 105 PERIODS**REFERENCES:**

1. The Dissertation Journey: A Practical and Comprehensive Guide to Planning, Writing, and Defending Your Dissertation... by Carol M. Roberts
2. Demystifying Dissertation Writing: A Streamlined Process from Choice of Topic to Final Text by Peg Boyle Single and Richard M. Reis (Sep 2009)

MAR16IL04

INTERIOR DESIGN STUDIO – III

L T P C
0 0 14 7

Resolving complex issues in interior spaces through design language
Evolving method of studies, analysis & design process.

Recreational spaces like theatres, clubs ,etc

TOTAL: 210 PERIODS

REFERENCES:

1. The Fundamentals of Interior Architecture, Coles ,AVA
2. Interior Design -John Pile; Harry . N.Abraham, Inc. Publishers.
3. Interior design Illustrated; Francis.D.K.Ching.
4. Time Saver standards for Interior Design & Space Planning – Joseph de Chiara,Julius Panero, and Martin Zelnic – 2003.

SEMESTER - IV

**MAR16I011 INTERIOR PROJECT MANAGEMENT & PRACTICE L T P C
2 0 0 2**

UNIT I INTERIOR PROJECT MANAGEMENT – INTRODUCTION 7

Introduction to interior project management , its objectives, resources & team
Client contact & relationship issues, design development stage and co ordination with various agencies.

UNIT II MANAGEMENT TECHNIQUES 9

Execution of work – planning, scheduling and control. Project monitoring , programming of works.
Tools & techniques for project management; bar charts, network techniques

UNIT III ESTIMATION & COSTING 7

Project cost analysis – methods of estimating, total budgeting and schedule of payment of various agencies

UNIT IV PROFESSIONAL PRACTICE , MARKET TRENDS & SURVEY 7

Interior design profession: survey of various interior designers, working procedures. Fee systems.
Professional interior design societies , licensing & registering

TOTAL: 30 PERIODS

REFERENCES:

1. The Interior Design Business Handbook: A Complete Guide to Profitability ~ Mary V. Knackstedt
2. Architect's Essentials of Negotiation (The Architect's Essentials of Professional Practice)
3. Becoming an Interior Designer, Piotrowski, Wiley Publications.

MAR16IL05**INTERIOR DESIGN STUDIO IV – THESIS****0 0 ** 14**

Study in the chosen field would be carried out in two stages:

Data collection & analysis

An in-depth investigation into the aspects of the chosen area

Analysis of data, inferences to establish underlying principles

Review of existing practices/theory in view of current contexts

DESIGN

Prepare programme

Design on basis of Data collection & analysis

TOTAL: ** PERIODS

** Undeterminable Number of Hours, It may be 25 – 30 hrs duration/ week.

REFERENCES:

1. Indian Design (Daab Design Book) ~ Ralf Daab
2. Detail + Interior + Architecture - Series From Archiworld
3. Interior World , Series From Archiworld
4. Interior Spaces , Series From Archiworld

ELECTIVES

MAR16IE01	INTERIOR LANDSCAPING	L T P C 1 0 2 2
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UNIT I	INTERIOR LANDSCAPE	12
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Types of indoor plants, plant characteristics, size, biology, soil, moisture, light, nutrient, atmospheric conditions, growing medium , pests & diseases. Market survey & costs

UNIT II	FLOWER & ARRANGEMENTS	9
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Flowers, its colours, texture and its visual perception in various indoor spaces. Science of flower arrangement.

UNIT III	IRRIGATION SYSTEMS	12
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Manual versions automatic irrigation , costing & installation of micro irrigation systems

UNIT IV	INTERIOR DESIGNS	12
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Interior landscape application for residential, commercial and other public use spaces.

TOTAL: 45 PERIODS

REFERENCES:

1. Interior Landscaping By Tokuji Furuta, Debra Sievers, Vernon Artman 1983,Reston pub. Co
2. Interior Landscape design by Nelson Hemmer,1991, McGraw Hill.

MAR16IE02 **TRADITIONAL INDIAN SPACES** **L T P C**
1 0 2 2

UNIT I **PRINCIPLES & FUNCTIONS OF INDIAN SPACES** **12**

Principles of Space making in Ancient Hindu Architecture; Shatras behind the Space planning; The effective vernacular elements that withstand the climate, geographic conditions, & cultural setting, in a range of architectural ex's like temples, vernacular houses, palaces, mosques, etc.

UNIT II **SPACE ARTICULATION & INDIAN AESTHETICS** **9**

Detailed Study on Indian Aesthetics and its Reflections in Indian Spaces. In a range of architectural ex's like temples, vernacular houses, palaces, mosques, etc.

UNIT III **SPACE AND ENERGY** **12**

A discursive approach to understanding Energy in space based on examples of Spaces in Temples.

UNIT IV **RESEARCH WORK ON INDIAN INTERIORS** **12**

Detailed study on one ancient building.

TOTAL: 45 PERIODS

REFERENCES:

1. Indian Temple Architecture: Form and Transformation : the Karṇāṭa Drāviḍa Tradition, 7th to 13th Centuries, Adam Hardy.

MAR16E009**RESEARCH METHODOLOGIES IN ARCHITECTURE****L T P C
2 0 0 2****OBJECTIVES:**

- To make the students to distinguish various theoretical ideologies influencing the philosophy and values of architecture.
- To establish the sense of systematic inquiry in students mind to analyze and infer the issues and aspects relating to Architecture.

UNIT I INTRODUCTION**9**

Basic research issues and concepts- orientation to research process- types of research: historical, qualitative, co-relational, experimental, simulation and modeling, logical argumentation, case study and mixed methods- illustration using research samples

UNIT II RESEARCH PROCESS**9**

Elements of Research process: finding a topic- writing an introduction- stating a purpose of study- identifying key research questions and hypotheses- reviewing literature- using theory- defining, delimiting and stating the significance of the study, advanced methods and procedures for data collection and analysis- illustration using research samples

UNIT III RESEARCHING AND DATA COLLECTION**6**

Library and archives- Internet: New information and the role of internet; finding and evaluating sources- misuse- test for reliability- ethics

Methods of data collection- From primary sources: observation and recording, interviews structured and unstructured, questionnaire, open ended and close ended questions and the advantages, sampling- Problems encountered in collecting data from secondary sources

UNIT IV REPORT WRITING**6**

Research writing in general- Components: referencing- writing the bibliography - developing the outline- presentation; etc. Case studies illustrating how good research can be used from project inception to completion- review of research publications

TOTAL: 30 PERIODS**OUTCOMES:**

- The student will develop the skill to identify, decipher and interpret the issues relating to Architecture, based on research enquiry methods.
- The student will widen the information and will prepare the students for scientific method of researching and research process.

REFERENCES:

1. Linda Groat and David Wang; Architectural Research Methods;
2. Wayne C Booth; Joseph M Williams; Gregory G. Colomb; The Craft of Research, 2nd Edition; Chicago guides to writing, editing and publishing;
3. Iain Borden and Kaaterina Ruedi; The Dissertation: An Architecture Student's Handbook; Architectural Press; 2000
4. Ranjith Kumar; Research Methodology- A step by step guide for beginners; Sage Publications; 2005

MAR16IE04**PSYCHOLOGY & HUMAN BEHAVIOR****L T P C
2 0 0 2****UNIT I HUMAN BEHAVIORAL PATTERN****7**

Analysis of human mind & his or her image world. Human being and social behavioural patterns in various public & private areas.

UNIT II TERRITORIAL & GROUP PSYCHOLOGY**7**

Human behavior in a group of two, three, and more. Activities and its relationship with grouping of people. Privacy, territoriality & defensible space.

UNIT III MODERNIZATION & IMPACTS ON HUMAN BEHAVIOUR**7**

Modernization, change in society, change in thought process and behavioral patterns. Behavior and its co relation to design elements.

UNIT IV BEHAVIOUR PATTERN & SPACE PLANNING**9**

Relation of behavior patterns of human being in space planning for public areas like theatre lounge, waiting rooms, hotel foyer, café and other rooms

TOTAL: 30 PERIODS**REFERENCES:**

1. An Introduction to Social Psychology,Chapter 8: Behavior Patterns: Their Nature and Development By,Luther Lee Bernard
2. The Psychology of the Interior , Agnieska Mlicka
3. Baudrillard, J. (1996). The System of Objects (Verso English Edition). United Kingdom: Bookmarque.
4. Mackenzie, N.E.; M.A. Wilson (2000). "Social Attributions Based on Domestic Interiors". Journal of Environmental Psychology 20: 343–354.
5. Rice, Charles (2007). The Emergence of the Interior. Oxon: Routledge.
6. Edwards, M.J.; W.G. Gjertson (September 2008). "La Maison de Verre: Negotiating a Modern Domesticity". Journal of Interior Design

