AC 12/5/2017
Item No.

UNIVERSITY OF MUMBAI

Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	BACHELOR'S IN INTERIOR DESIGN
2	Eligibility for Admission	The candidate shall be HSC with 50% marks and from any stream and preference will be given to the candidates who have passed INTERMEDIATE DRAWING GRADE EXAMINATION AND CANDIDATES HAVING GOOD FLAIR FOR FREE HAND SKETCHING. **He/ She has passed UG/PG DID course from Garware Institute he/she will be considered is eligible to take admission in semester IV of Bachelor degree in Interior Design. (Last five year student's of UGDID are permitted)** **Admissions on the basis of Written Test & Interview**
3	Passing Marks	50% PASSING MARKS
4	Ordinances / Regulations (if any)	
5	No. of Years / Semesters	3 YEARS / 6 SEMESTERS
6	Level	HSC / Diploma
7	Pattern	Semester
8	Status	New
9	To be implemented from Academic Year	From Academic Year 2017-18

Date: 12/5/2017 Signature:

Dr. Anil Karnik, I/C. Director, Garware Institute of Career Education & Development

UNIVERSITY OF MUMBAI'S

GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT

BACHELOR'S IN INTERIOR DESIGN

Proposed syllabus

Credit Based Semester and Grading System with effect from the Academic Year

(w.e.f. Academic Year 2017-18)

UNIVERSITY OF MUMBAI'S

GARWARE INSTITUTE OF CAREER EDUCATION AND DEVELOPMENT

Ordinances, Regulations and Syllabus Relating to

BACHELOR'S IN INTERIOR DESIGN

(THREE YEAR FULL-TIME COURSE)

INTRODUCTION:

As the name of the Institute goes this is a career oriented course that gives chance and opportunity to the deserving candidates, who have had no exposure to the creative field like 'INTERIOR DESIGN'. Today, with the existing tough competition for getting a job, even after graduation, this course gives entry in the professional field and makes the candidate self supporting.

OBJECTIVES OF THE PROGRAMME:

The Course covers Interior Designing of residential and commercial premises. It aims at studying the design and drawing aspects by using Computer aided design methods. As a part of the curricula the candidate has to undergo project training in the industry to match theory with practical on the job experience. **One important paper must be held for such student for not providing certificate of experience under this stage.** On successful completion, the candidate can gain adequate theoretical and practical knowledge to be in the industry.

Students to complete most of the drawing work in the studio under the guidance of teaching staff.

The Course has four principal aims:

1. To be academically comprehensive with in the field of interior and to make connections to related disciplines.
2. To provide the foundation for the further development of the candidate in the professional area.
3. To develop the skills which provide the designer with his / her essential discipline.
4. To develop strong set of values that will provide the basis of a comprehensive critical ability.

Syllabus Details:

Bachelor In Interior Design - Duration Three Year										
	Subject code	**Core subject**	**Assessment Patterns**			**Teaching Hours**				
		Topics	**Internal Marks 120**	**External Marks 80**	**Total Marks 200**	**Theory hours**	**Studio Hours**	**Total Hours**	**Site Visit**	**Total Credits**
SEMESTER- 01	1.1	Design - I	120	80	200	60	60	120	2	6
	1.2	Drawing - I	120	80	200	60	60	120	-	6
	1.3	Applied Technology - I	120	80	200	60	60	120	2	6
	1.4	Theory & Materials-I	120	80	200	60	60	120	2	6
	1.5	Free-Hand Sketching & Rendering-I	120	80	200	60	60	120	-	6
	1.6	Computer - CAD	120	80	200	60	-	60	-	4
		Total	**720**	**480**	**1200**	**360**	**300**	**660**	**6**	**34**
SEMESTER-02										
	2.7	Design - II	120	80	200	60	60	120	2	6
	2.8	Drawing - II	120	80	200	60	60	120	-	6
	2.9	Applied Technology - II	120	80	200	60	60	120	2	6
	2.10	Theory & Materials-II	120	80	200	60	60	120	2	6
	2.11	Free-Hand Sketching & Rendering -II	120	80	200	60	60	120	-	6
	2.12	Computer - CAD	120	80	200	60	-	60	-	4
		Total	**720**	**480**	**1200**	**360**	**300**	**660**	**6**	**34**
SEMESTER-03	3.13	Design - III	120	80	200	60	60	120	2	6
	3.14	Drawing – III+ Free-Hand	120	80	200	60	60	120	-	6
	3.15	Applied Technology - III	120	80	200	60	60	120	2	6
	3.16	Theory & Materials-III	120	80	200	60	60	120	2	6
	3.17	Furniture Details	120	80	200	60	60	120	2	6
	3.18	Computer - CAD	120	80	200	60	-	60	-	4
		Total	**720**	**480**	**1200**	**360**	**300**	**660**	**8**	**34**

Bachelor In Interior Design - Duration Three Year										
	Subject code	**Core subject**	**Assessment Patterns**			**Teaching Hours**				
		Topics	**Internal Marks 120**	**External Marks 80**	**Total Marks 200**	**Theory hours**	**Studio Hours**	**Total Hours**	**Site Visit**	**Total Credits**
SEMESTER-04	4.19	Design- IV	120	80	200	60	60	120	2	6
	4.20	Drawing- IV+ Free-Hand	120	80	200	60	60	120	-	6
	4.21	Applied Technology - IV	120	80	200	60	60	120	2	6
	4.22	Theory & Materials-IV	120	80	200	60	60	120	2	6
	4.23	Landscape Design	120	80	200	60	60	120	2	6
	4.24	Computer - CAD	120	80	200	60	-	60	-	4
		Total	**720**	**480**	**1200**	**360**	**300**	**660**	**8**	**34**
SEMESTER-05	5.26	Design-Project with Landscape	120	80	200	60	60	120	2	6
	5.27	Working Drawing of semester IV Design	120	80	200	60	60	120	2	6
	5.29	Specialization Case Study V Design	120	80	200	60	60	120	2	6
	5.30	Theory & Materials-V	120	80	200	60	60	120	2	6
	5.31	Specialization in one Material	120	80	200	60	60	120	2	6
	5.32	Computer - CAD	120	80	200	60	-	60	-	4
		Total	**720**	**480**	**1200**	**360**	**300**	**660**	**10**	**34**
-SEMESTER- 06	6.33	Project	200	**-**	200	**-**	**-**	**3** months	**-**	**11**
	6.34	Viva	100	**-**	100	**-**	**-**	**-**	**-**	**1**
		Total	**300**	**-**	**300**	**-**	**-**	**-**	**-**	**12**
		Final Total	**-**	**-**	**6300**	**-**	**-**	**3300**	**38**	**182**

DETAILED SYLLABUS SEMESTER WISE PLAN

(Total Hours of Four Semesters - 1800 / 1500 Lecture/Studio hours)

SEMESTER - 01

PAPER NO.	SUBJECT	Total Theory hours	Total Session of 3hrs each	Studio Hours	Total Session of 3hrs each
1.1	**DESIGN I** **Unit-1** Study Of Furniture Layout, with ➢ Understanding Furniture Units, Their Functions. ➢ Anthropometric Data ➢ Ergonomics. **Unit -2** Study of furniture layout for following. ➢ Living Room + Kitchen+ Toilet ➢ One Bed Room+ Hall+ Kitchen+ Toilet Working-Out Interior Spaces As Functional And Suitable For Indoor Human Movements, Considering. **Unit-3** ➢ Light- Natural & Artificial. ➢ Ventilation- Natural & Artificial But without Any Civil Work Changes. **Reference Books:** Time Saver Standards — Design Data - Chiava. J. Callender. J. Interior Design - Kasu Ahmed Sanskruti - Sudhir Diwan Architectural Picture Dictionary - Mikel Ching	18 30 12	06 10 04	18 30 12	06 10 04
1.2	**DRAWING I** **Unit-1** ➢ Line Values for Drafting. **Unit-2** ➢ Understanding two dimensional objects such as Square, Hexagon, and Circle etc. **Unit-3** ➢ Study of solid objects through Orthographic Projection method such as Cube Sphere, Cone, Steps etc.	06 12 30	02 04 10	06 12 30	02 04 10

	Unit-4 ➢ Tracing work for Training Hand & Drafting **Reference Books** ➢ Time Saver Standards- Design Data - Chiava. J. Callender J. ➢ Perspective & Sciography - Shankar M ➢ Rendering With Pen & Ink -Robort W. Gill	12	04	12	04
1.3	**APPLIED TECHNOLOGY I** **Unit - 1** ➢ Stone –Types, Stone Masonry, Stone dressing, etc and use in interiors. **Unit - 2** ➢ Mud House Construction – Understanding its character and use in interior. **Unit – 3** ➢ Bamboo & Cane Construction – Understanding its character and use in interior. **Unit - 4** ➢ Study of soil, sand, gravels, pebbles, boulders, rocks, and their use in construction and application in interiors. **Reference Books:** ➢ Time Saver Standards Design Data - Chiava. J. & Callender. J. ➢ Building Construction Vol. 1 &2 - W. B. Mackey ➢ Construction and material handbook - P. N. Khanna ➢ Building Construction Handbook - R. Chudley and R. Greeno	18 12 12 18	06 04 04 06	18 12 12 18	06 04 04 06
1.4	**THEORY AND MATERIALS I** **Unit - 1** ➢ Understanding Units and Modes of Measurement. **Unit - 2** ➢ Comparison and understanding: ➢ Characters of Load Bearing Structure ➢ Characters of Frame Load Bearing Structure	06 36	03 12	06 36	03 12

	➢ Characters of Steel Frame Structures ➢ Characters of Timber Frame Structures ➢ Characters of Composite Structures ➢ All the above with scope to suitable alterations/additions, and facial changes including its structural safety. **Unit - 3** ➢ Materials - Project based sessions through presentations by students covering vital aspects like characteristics, formation, availability, accessibility, functionality, and price. **Reference Books:** ➢ Time Saver Standards Design Data - Chiava. J. & Callender. J. ➢ Building Construction Vol. 1 &2 - W. B. Mackey ➢ Construction and material handbook : P. N. Khanna ➢ Architectural Picture Dictionary - Francis D. K. Ching ➢ Magazines, and periodicals	18	06	18	06
1.5	**FREE HAND SKETCHING AND RENDERING I** **Unit - 1** ➢ Free hand skills improvement. **Unit – 2** ➢ Line work improvement. **Unit – 3** ➢ Lettering improvement. **Unit – 4** ➢ Model making – medium – Concrete block and pop **Reference Books:** ➢ Rendering with Pen and Ink - W. Robert Gill ➢ Water Colour Sketching - Milind Mulik ➢ Art – Noveau - Constantino Maria ➢ Magazines, and periodicals	12 12 12 24	04 04 04 08	12 12 12 24	04 04 04 08

1.6	**COMPUTER AIDED DRAWING I** **Unit - 1** ➢ Introduction to Computer. **Unit – 2** ➢ Study of input and output devices. **Unit – 3** ➢ Understanding Windows. **Unit – 4** ➢ Understanding Paint. **Reference Books** ➢ Magazines, and periodicals	06 24 18 12	02 08 06 04	-- -- -- --	-- -- -- --

SEMESTER II:

Interior Design – Residential Large Premises

Summary:

In the **Second Semester** more emphasis is placed on functional and contextual considerations through projects concerned with large residential premises, building put to new use with additional project options concerned with public services design. The visual research studies continue through the **Second Semester** exploring the sensory understanding of interior space as a component of the built environment, which may be both sensitive and experimental in application. The studios are the base for the student's academic activities and in addition, teach design related to formal and cultural values.

SEMESTER - 02

PAPER NO.	SUBJECT	Total Theory hours	Total Session of 3hrs each	Studio Hours	Total Session of 3hrs each
2.7	**DESIGN II** **Unit - 1** ➢ Design of 2/3 Bedroom flats, bungalows, duplex, triplex, condominium houses all as per first semester but by making only internal civil work alterations, additions, omissions and also by considering structural safety, precautions etc. **Unit -2** ➢ Conversion of existing flats for maximum efficiency of available space. **Unit - 3** ➢ Multipurpose, economical residential flag design. **Reference Books:** ➢ Time Saver Standards Design Data - Chiava. J. & Callender. J. ➢ Interior Design - Kasu Ahmed ➢ Sanskruti - Sudhir Diwan ➢ Architectural Picture Dictionary - Francis D. K. Ching	36 12 12	12 04 04	36 12 12	12 04 04
2.8	**DRAWING II**				

	Unit - 1 ➢ Study of complex solid objects through Orthographic Projection System. **Unit - 2** ➢ Isometric of simple solid and two dimensional planes. **Unit – 3** ➢ Lettering. **Reference Books:** ➢ Time Saver Standards -Design Data - Chiava. J. & Callender. J. ➢ Perspective and Sciography - Shankar Mulik ➢ Rendering with Pen and Ink - W. Robert Gill ➢ Water Colour Sketching - Milind Mulik	24 24 12	08 08 04	24 24 12	08 08 04
2.9	**APPLIED TECHNOLOGY II** **Unit - 1** ➢ Stone –Arches, Corbelling, Stepping, Toothing, Copings, etc. **Unit - 2** ➢ Brick- Common brick, Wire cut bricks, Fireclay bricks, Concrete Blocks and their masonry works. **Unit – 3** ➢ Study of various bonds, partition walls. **Unit – 4** ➢ Brick work features such as Corbelling, Toothing, Stepping, Coping, various Pointing, Paving, Terracing, etc. **Unit – 5** ➢ Brick Arches and other facial elements as Niche, String Band, Cornice, Plinth Profiles, and overall application of all above in interiors. **Unit – 6** ➢ Introduction of timber, timber types and their application. as carpentry and joinery **Reference Books:** ➢ Building Construction Vol. 1, 2, &3 - W. B. Mackey ➢ Construction and material handbook -	15 09 09 09 09 09	05 03 03 03 03 03	15 09 09 09 09 09	05 03 03 03 03 03

	P. N. Khanna ➢ Building Construction Handbook - R. Chudley and R. Greeno				
2.10	**<u>THEORY AND MATERIALS II</u>** **<u>Unit – 1</u>** ➢ Introduction to tradition and its application. **<u>Unit - 2</u>** ➢ Various arch profiles and traditional motives **<u>Unit – 3</u>** ➢ Introduction to plumbing, water supply, electrical supply and general drainage system. **<u>Unit – 4</u>** ➢ Introduction to HVAC- Simple Window AC unit, their size, placement, Split units, Package unit, Central A.C. system, etc. **<u>Unit – 5</u>** ➢ Ventilation – Natural and Artificial – with layouts based on Design II **<u>Unit - 6</u>** ➢ Paints and polishes. ➢ Case Study Project based on Design II. **<u>Unit - 7</u>** ➢ Materials - Project based sessions through presentations by students covering vital aspects like characteristics, formation, availability, accessibility, functionality, and price. **<u>Unit – 8</u>** ➢ Materials – Carpets, Curtains, Tapestry, Wall papers, Heritage finishing, Venetian and Vertical blinds. **Reference Books:** ➢ Building Construction Vol. 1 & 2 - W. B. Mackey ➢ Construction and material handbook - P. N. Khanna ➢ Magazines, and periodicals	06 06 09 09 06 06 09 09	02 02 03 03 02 02 03 03	06 06 09 09 06 06 09 09	02 02 03 03 02 02 03 03

2.11	**FREE HAND SKETCHING AND RENDERING II** **Unit – 1** ➢ Pencil shading improvement. **Unit – 2** ➢ Introduction to inking as a medium in drafting and freehand skills. **Unit – 3** ➢ Introduction to water colours, collage and simple model making. **Unit – 4** ➢ Various types of lettering font. **Unit – 5** ➢ Basic shapes – in – paper, card paper. **Unit – 6** ➢ Origami through gust lectures **Reference Books:** ➢ Rendering with Pen and Ink - W. Robert Gill ➢ Water Colour Sketching - Milind Mulik	12 06 24 06 06 06	04 02 08 02 02 02	12 06 24 06 06 06	04 02 08 02 02 02
2.12	**COMPUTER AIDED DRAWING II** **Unit - 1** ➢ Introduction to CADD. **Unit - 2** ➢ Drafting 2D objects in CADD. **Unit - 3** ➢ Drafting layout in CADD. **Unit - 4** ➢ Adding textures and effects in CADD. **Reference Books:** ➢ Magazines, and periodicals	06 18 24 12	02 06 08 04	-- -- -- --	-- -- -- --

SEMESTER III:

Interior Design – Small Commercial Premises

Summary:

The **Third semester** provides a focus for individual specialty, interest or creativity covering more complex design issues which may be concerned with urban environments, application of traditions, detailing and construction. The semester concludes with a single 'major task': A special project chosen by the student, which may refer to the range of interior subjects, which could include exhibition design, retail design, designing of public areas. This project forms the principal submission for the final exhibition and assessment.

The **Third semester** introduces environmental planning and landscape studies and aims to give a flavor of the sorts of problems and issues faced by town and country planners, landscape architects and environmental managers. You examine ecological, social, economic, and historical aspects of the environment, and learn about gathering, analyzing, and presenting information

The planning and management of the environment is becoming of ever increasing importance as government and societies all over the world struggle to meet increasing demands against the requirements of sustainable development. These problems are the central concern of the landscape design, which is taught, in third semester.

Landscape design is taught primarily as an art and design discipline, underpinned by a strong academic core embracing a diversity of subjects. This broad landscape design education provides students with an understanding of urban and rural landscapes. Emphasis is placed on the design of landscape which meets social, environmental and technical requirements.

SEMESTER - 03

PAPER NO.	SUBJECT	Total Theory hours	Total Session of 3hrs each	Studio Hours	Total Session of 3hrs each
3.13	**DESIGN III** **Unit - 1** ➢ Designing small commercial units like offices, shops, etc. by making all possible changes internally like additions/alterations, omissions, etc. **Unit - 2** ➢ Case Study and market survey. **Reference Books:** ➢ Time Saver Standards Design -: Chiava. J. & Callender. J. ➢ Interior Design - Kasu Ahmed ➢ Sanskruti Volume 1 & 2 - Sudhir Diwan ➢ Architectural Picture Dictionary - Francis D. K. Ching	48 12	16 04	48 12	16 04
3.14	**DRAWING III** **Unit - 1** ➢ Isometric of complex objects. **Unit - 2** ➢ Study of Axonometric Views. **Unit - 3** ➢ Understanding of One Point Perspective. **Unit - 4** ➢ 45^{o} Method **Unit – 5** ➢ "Object in Plan" method. **Unit – 6** ➢ Measuring Point Method **Unit – 7** ➢ Calligraphy and signage. **Reference Books:** ➢ Perspective and Sciography - Shankar Mulik ➢ Rendering with Pen and Ink - W. Robert Gill ➢ Water Colour Sketching - Milind Mulik	12 06 12 12 03 03 12	04 02 04 04 01 01 04	12 06 12 12 03 03 12	04 02 04 04 01 01 04

3.15	**APPLIED TECHNOLOGY III** **Unit - 1** ➢ Timber – types, character of Timber carpenter & joinery and its application in Interior works. ➢ Hardware in Timber Works **Unit - 2** ➢ Artificial Timber – its varieties and application in interior works. **Unite - 3** ➢ Timber doors with various types of shutters as per function/ orientation / location. ➢ Timber windows of various types as per function, orientation and location etc. including common hardware – Bay windows and French windows. ➢ Timber staircase. **Unite - 4** ➢ Timber partitions and paneling, suspended ceilings. Various flooring/floor finishes along with schematic layouts and related details as per function. **Reference Books:** ➢ Building Construction Vol. 1, 2, 3, &4 - W. B. Mackey ➢ Construction and material handbook - P. N. Khanna ➢ Building Construction - R. Chudley and R. Greeno	12 06 24 18	04 02 08 06	12 06 24 18	04 02 08 06
3.16	**THEORY AND MATERIALS III** **Unit - 1** ➢ Professional Practice, Estimation and Quantities ➢ Specifications- Introduction to building norms, D. C. Rules, National Building Codes, ISI Specifications, etc. **Unit - 2** ➢ Tenders and Billing	12 18	04 06	12 18	04 06

	➢ Contracts and Arbitration. ➢ Case Study Project based on Design III. **Unit - 3** ➢ Aluminum –as a material, its application in doors and windows, wall cladding, aluminum framed glass cladding. **Unit - 4** ➢ UPVC- its application in doors and windows for high rise buildings with understanding of wind loads. ➢ Materials like glass, glass bricks, plastics, laminates, etc - Project based sessions through presentations by students covering vital aspects like characteristics, formation, availability, accessibility, functionality, and price. ➢ Material Procurement, Identification, Selection, and Quality Control procedures in procurement and process. **Reference Books:** ➢ Building Construction Vol. 1, 2, 3, & 4 - W. B. Mackey ➢ Construction and material handbook - P. N. Khanna	06 24	02 08	06 24	02 08
3.17	**LANDSCAPE DESIGN** **Unit - 1** ➢ Plants – General Terminology. **Unit - 2** ➢ Soil – General Terminology. **Unit - 3** ➢ Design Element as: Lawn Areas Walk ways Drive ways Terracing Retaining walls Tree/Plants guards Water bodies Island formation Season flower bed **Unit - 4** ➢ Placement of trees – major and	06 06 21 06	02 02 07 02	06 06 21 06	02 02 07 02

	medium trees, shade giving trees, as per landscape layout. **Unit - 5** ➢ Rock garden, Sand pit, waterfalls and fountains **Unit - 6** ➢ Drainage, water supply and power supply. ➢ Design based on all above. **Unit - 7** ➢ Use of plants – natural and artificial in interiors. **Reference Books:** ➢ Time Saver Standards Design Data - Chiava. J. & Callender. J. ➢ Construction and material handbook - P. N. Khanna ➢ Garden Structures - Wiles Richard	09 09 03	03 03 01	09 09 03	03 03 01
3.18	**COMPUTER AIDED DRAWING III** **Unit - 1** ➢ Drafting 3D objects in CADD. **Unit - 2** ➢ Creating 3D views in CADD **Unit - 3** ➢ Introduction to Photoshop **Reference Books:** ➢ Magazines, and periodicals	24 24 12	08 08 04	-- -- --	-- -- --

Semester IV:

Interior Design – Large Commercial Premises

Summary:

The Fourth concentrates on the professional nature of planning work. Students learn about gathering, analyzing, and presenting information. Students are encouraged to develop design skills in response to the spirit of place, working alone as well as with artist and practitioners of other design disciplines.

Design skills and techniques develop through studio based projects which integrate design theory, process and solution.

SEMESTER - 04

PAPER NO.	SUBJECT	Total Theory hours	Total Session of 3hrs each	Studio Hours	Total Session of 3hrs each
4.19	**DESIGN IV** **Unit - 1** ➢ Designing large commercial units like banks, supermarkets, offices, restaurants, permit rooms, etc. by making all possible changes internally like additions/ alterations, omissions, considering the structural safety of the premises. Including constructing lofts stairs elevator if required. **Unit - 2** ➢ Case Study and market survey. **Reference Books:** ➢ Time Saver Standards Design Data: Chiava. J. & Callender. J. ➢ Interior Design - Kasu Ahmed ➢ Sanskruti Volume 1, 2, 3, & 4 - Sudhir Diwan ➢ Architectural Picture Dictionary - Francis D. K. Ching	48 12	16 04	48 12	16 04

4.20	**<u>DRAWING IV</u>** **<u>Unit - 1</u>** ➢ Study of two point perspective With plan method With measuring point method. **<u>Unit - 2</u>** ➢ Study of three point method. **<u>Unit – 3</u>** ➢ Introduction of Sciography of plain objects. **<u>Unit – 4</u>** ➢ Study of Sciography in perspective. **<u>Unit - 5</u>** ➢ Advanced Graphics, Calligraphy and signage. **Reference Books:** ➢ Perspective and Sciography - Shankar Mulik ➢ Rendering with Pen and Ink - W. Robert Gill	18 06 12 12 12	06 02 04 04 04	18 06 12 12 12	06 02 04 04 04
4.21	**<u>APPLIED TECHNOLOGY IV</u>** **<u>Unit – 1</u>** ➢ Light weight constructions with materials like siporex, plain cement boards, aluminum partitions and suspended ceilings with provision for light fittings, A.C. ducts, electrical conduits, active and passive fire protection system. ➢ Suspended ceilings with various profiles, drops, domes, etc. **<u>Unit – 2</u>** ➢ Timber roofs with their elements. ➢ Awning in various materials. ➢ Shop front Marquees. **<u>Unit – 3</u>** ➢ Box type grills with roof cover. **<u>Unit - 4</u>** ➢ Cabinet making with artificial wood. **<u>Unit - 5</u>** ➢ Structural steel work as loft, canopies, staircases, ramps, lift-wells, etc.	18 18 06 06 12	06 06 02 02 04	18 18 06 06 12	06 06 02 02 04

	Reference Books: ➢ Building Construction Vol. 1, 2, 3, & 4 - W. B. Mackey ➢ Construction and material handbook - P. N. Khanna ➢ Building Construction Handbook - R. Chudley and R. Greeno				
4.22	**THEORY AND MATERIALS IV** **Unit – 1** ➢ Study of Acoustics and Insulation. **Unit - 2** ➢ Introduction to Active and Passive Fire Protection System **Unit - 3** ➢ Flooring types, flooring layouts, study of different flooring materials for different purpose and their laying process like flooring for wet areas, cavity flooring for computer laboratories, anti static floorings used for electronic manufacturing units and pharmaceutical companies, and fumigated phytosanitary certified imported wooden floorings. **Unit - 4** ➢ Cladding material and applications. **Unit - 5** ➢ Introduction to factory made furniture. **Unit - 6** ➢ Case Study Project based on Design IV. **Reference Books:** ➢ Building Construction Vol. 1, 2, 3, & 4 - W. B. Mackey ➢ Construction and material handbook - P. N. Khanna ➢ Magazines, and periodicals	12 06 24 06 06 06	04 02 08 02 02 02	12 06 24 06 06 06	04 02 08 02 02 02
4.23	**WORKING DRAWING** **Unit - 1** ➢ Introduction to working drawing with application of various details taken up in construction. **Unit - 2** ➢ Working drawing of light weight construction.	12 06	04 02	12 06	04 02

	Unit – 3 ➢ Control of bands and levels, etc, in window/door pattern with related plain or decorative treatment. **Unit – 4** ➢ Flooring pattern in timber stone and tiles, etc. **Unit - 5** ➢ Dado design **Unit - 6** ➢ Working drawing of various services layouts – like plumbing and drainage layout, electrical layout, suspended ceiling layout, etc. **Reference Books:** ➢ Time Saver Standards Design Data - Chiava. J. & Callender. J. ➢ Construction and material handbook - P. N. Khanna ➢ Magazines and Periodicals	12 12 06 12	04 04 02 04	12 12 06 12	04 04 02 04
4.24	**COMPUTER AIDED DRAWING III** **Unit - 1** ➢ Advanced 3D views in CADD. **Unit - 2** ➢ Advanced Photoshop. **Unit - 3** ➢ Introduction to 3D Max for walkthroughs and animations. **Unit - 4** ➢ Creating a walkthrough of Design IV project. **Reference Books:** ➢ Magazines, and periodicals	 15 15 15 15	 05 05 05 05	 -- -- -- --	 -- -- -- --

SEMESTER - 05

Since the student after passing 5th semester examination, has to join a job as an internship. The teaching and grooming since previous semesters. Make them comfortable so as to be able to face interview and gate the job.

Special attention is given on working details including new materials, site visit case study and presentation.

SEMESTER - 05

PAPER NO.	SUBJECT	Total Theory hours	Total Session of 3hrs each	Studio Hours	Total Session of 3hrs each
5.25	**DESIGN-PROJECT WITH LANDSCAPE** **Unit - 1** ➢ Interior design layout of commercial unit or bungalow with landscape compound gate and security Cabin-using. **Unit - 2** ➢ Design elements as: ➢ Lawn areas b) walk ways c) Drive ways d) Terracing e) Retaining walls f) Tree/ Plants guards g) water bodies h) Island formation i) Season flower bed. ➢ Placement of proper major & medium trees. **Unit - 3** ➢ Rock garden, sand pit, waterfalls & fountains. **Unit - 4** ➢ Drainage & water supply & power supply. ➢ Design based on all above. **Unit - 5** ➢ Use of artificial plants in interior. **Reference Books:** ➢ Time serve standards-Landscape - Chiava J. ➢ Construction & Material Hand Book - P. N. Khanna ➢ Garden structures - Wiles Richard	12 24 06 12 06	04 08 02 04 02	12 24 06 12 06	04 08 02 04 02

5.26	**<u>DRAWING-V (WORKING DRAWING)</u>** ➢ Light weight construction to create flexible spaces ➢ Controlling bands & levels etc. in window/door – pattern with related plain or decorative treatment. ➢ Flooring pattern in timber stone and tiles etc. ➢ Dado design / Plumbing junctions matching. **Reference Books:** ➢ Working details series. ➢ Various information pamphlets from suppliers, manufactures etc.	15 15 15 15	5 5 5 5	15 15 15 15	5 5 5 5
5.27	**<u>SPECIALISATION, CASE STUDY</u>** **<u>Unit - 1</u>** ➢ Latest material in use. ➢ Their construction application. **<u>Unit – 2</u>** ➢ Aluminum windows of all types & aluminum framed glass partitions **<u>Unit – 3</u>** ➢ Specialization case study of semester V Design. **Reference Books:** ➢ Working details series. ➢ Various information pamphlets from suppliers, manufactures etc.	12 06 42	04 02 14	12 06 42	04 02 14
5.28	**<u>THEORY AND MATERIALS : V</u>** **<u>Unit -1</u>** ➢ Professional practice: Know-how of various agencies from main contractor to labour and client to various local authorities. **<u>Unit - 2</u>** ➢ Following rules & regulations applied from time to time by authorities. **<u>Unit - 3</u>** ➢ Tenders, billing etc., elements of estimation & Costing. **<u>Unit - 4</u>** ➢ Specifications.	12 12 12 24	04 04 04 08	12 12 12 24	04 04 04 08

5.29	**<u>SPECIALIZATION IN ONE MATERIAL</u>** **<u>Unit - 1</u>** ➢ Rendering, presentation etc. as for landscape design, case study. Etc. + Model making in detail	60	20	60	20
5.30	**<u>COMPUTER-CAD</u>** Auto CAD : Continued **<u>Unit – 1</u>** Layers **<u>Unit – 2</u>** Linetype **<u>Unit – 3</u>** Dimensions **<u>Unit – 4</u>** Draw Text **<u>Unit – 5</u>** Block Wblock **<u>Unit – 6</u>** Hatch Pattern **<u>Unit – 7</u>** Isometric view **<u>Unit – 8</u>** View ports Boolean Commands **<u>Unit – 9</u>** Project in Auto CAD **<u>Unit – 10</u>** Coral draw **Reference Books:** Auto CAD - George Omuera	 03 03 06 06 06 06 06 06 12 06	 01 01 02 02 02 02 02 02 04 02	 -- -- -- -- -- -- -- -- -- --	 -- -- -- -- -- -- -- -- -- --

SEMESTER - 06

PROJECT TRAINING

PAPER NO.	SUBJECT	SESSION
6.31	**PROJECT TRAINING** ➢ Students to submit reports on the basis of infield training under practicing architects, interior designers for minimum 16 weeks to 20 weeks.	11
6.32	**VIVA** ➢ Followed by oral test in the end related to type of project training such as :- i. Design and drawing work ii. Site supervision **iii.** Workshop training	1

NOTE: The hours mentioned for Lectures/Studios are likely to vary 10% as per the requirements of the subject.

Approach to Study

The course is a practical discipline. In addition to lectures, associated reading and coursework, each semester of the programmer has at its heart projects which aim to integrate student's studies and provide an opportunity for him/her to tackle realistic planning and management problems and come up with solutions. To help with this students are advised to make site visits to investigate case studies of environmental elements.

The course is taught and examined in single semesters. During the study period students will have internal assessments, essays and course work papers, and a variety of workshop and project submissions with critiques and feedback.

Students develop skills relevant to this specialty. Students are trained in basic communication skills, experiencing interior/exterior space, internal refurbishment of existing building and material research.

The creative use of enclosed space is explored in greater depth. Students are encouraged to be experimental and critical in their approach. Modules range from the study of elements of interior design and design in detail to major project, building adoption, in which the students explore private and public space within the context of the contemporary city.

Career Opportunities

Most of our students enter the interior profession where they have a very high employment rate, frequently in leading practices. Successful candidates are equipped to work in interior design and architectural practices, as well as associated areas such as museum and exhibition design, theatre design, and television set design.

A number of students enter research or other courses at other leading institutions in architecture or other associated fields.

PASSING STANDARD AND PERFORMANCE GRADING:

MARKS	GRADE POINTS	GRADE
75 TO 100	7.5 TO 10.0	O
65 TO 74	6.5 TO 7.49	A
60 TO 64	6.0 TO 6.49	B
55 TO 59	5.5 TO 5.99	C
50 TO 54	5.0 TO 5.49	D
0 TO 49	0.0 TO 4.99	F (FAILS)

The performance grading shall be based on the aggregate performance of Internal Assessment and Semester End Examination.

The Semester Grade Point Average (SGPA) will be calculated in the following manner:
SGPA = $\sum$CG / $\sum$C for a semester, where C is Credit Point and G is Grade Point for the Course/ Subject.

The Cumulative Grade Point Average (CGPA) will be calculated in the following manner :
CGPA = $\sum$CG / $\sum$C for all semesters taken together.

R. _____ PASSING STANDARD FOR ALL COURSES :

Passing 50% in each subject /Course combined Progressive Evaluation (PE)/Internal Evaluation and Semester-End/Final Evaluation (FE) examination taken together. i.e. (Internal plus External Examination)

R. _____

A. Carry forward of marks in case of learner who fails in the Internal Assessments and/ or Semester-end examination in one or more subjects (whichever component the learner has failed although passing is on total marks).
B. A learner who PASSES in the Internal Examination but FAILS in the Semester-end Examination of the Course shall reappear for the Semester-End Examination of that Course. However his/her marks of internal examinations shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

C. A learner who PASSES in the Semester-end Examination but FAILS in the Internal Assessment of the course shall reappear for the Internal Examination of that Course. However his/her marks of Semester-End Examination shall be carried over and he/she shall be entitled for grade obtained by him/her on passing

R. _____ ALLOWED TO KEEP TERMS (ATKT)

A. A learner shall be allowed to keep term for Semester II irrespective of number of heads/courses of failure in the Semester I.

B. A learner shall be allowed to keep term for Semester III wherever applicable if he/she passes each of Semester I and Semester II.

OR

C. A learner shall be allowed to keep term for Semester III wherever applicable irrespective of number of heads/courses of failure in the Semester I & Semester II.

D. A learner shall be allowed to keep term for Semester IV wherever applicable if he/she passes each of Semester I, Semester II and Semester III.

OR

E. A learner shall be allowed to keep term for Semester IV wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, and Semester III

F. A learner shall be allowed to keep term for Semester V wherever applicable if he/she passes each of Semester I, Semester II, Semester III and Semester IV.

OR

G. A learner shall be allowed to keep term for Semester V wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, Semester III, and Semester IV.

H. The result of Semester VI wherever applicable OR final semester shall be kept in abeyance until the learner passes each of Semester I, Semester II, Semester III, Semester IV , Semester V wherever applicable.

OR

I. A learner shall be allowed to keep term for Semester VI wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, Semester III, Semester IV and Semester V.