UNIVERSITY OF MUMBAI No. UG/128 of 2015-16

CIRCULAR:-

The Principals of the affiliated Colleges in Arts and the Heads of recognized Institutions concerned are hereby informed that the recommendation made by the Faculty of Arts at its meeting held on 20th February, 2015 has been accepted by the Academic Council at its meeting held on 31st August, 2015 <u>vide</u> item No. 4.12 and subsequently approved by the Management Council at its meeting held on 31st August, 2015 <u>vide</u> item No. 4.12 and for a subsequently approved by the Management Council at its meeting held on 31st August, 2015 <u>vide</u> item No.12 and that in accordance therewith, in exercise of the powers conferred upon the Management Council under Section 54 (1) and 55 (1) of the Maharashtra Universities Act, 1994 and the Ordinances 6240 and 6241 and Regulations 8990, 8991, 8992, 8993, 8994, 8995, 8996, 8997, 8998, 8999, 9000 and 9001 and the syllabus for the Bachelor of Arts ((Interior Design), Three Years Degree Course has been introduced, which is available on the University's web site (<u>www.mu.ac.in</u>) and that the same has been brought into force with effect from the academic year 2015-16.

Self Deputy Registrar Under Graduate Studies

MUMBAI – 400 032 7th December, 2015

To,

The Principals of the affiliated Colleges in Arts and the Heads of Recognized Institutions concerned.

<u>A.C/4.12/31.08.2015</u> M.C/12/31.08.2015

No. UG/128-A of 2015

MUMBAI-400 032

7th December, 2015

Copy forwarded with Compliments for information to:-

1) The Dean, faculty of Arts,

2) The Professor-cum-Director, Institute of Distance & Open Learning (IDOL)

3) The Director, Board of College and University Development,

4) The Co-Ordinator, University Computerization Centre,

5) The Controller of Examinations.

S.S. Gosal

Deputy Registrar Under Graduate Studies

....РТО

BACHELOR OF ARTS (INTERIOR DESIGN) 3 YEAR DEGREE COURSE

For approval of University of Mumbai to be introduced from session 2015-2016

Prepared by:

Board of Studies in Logic & Philosophy University of Mumbai

BACHELOR OF ARTS (INTERIOR DESIGN) (3 YEAR DEGREE COURSE)

INTRODUCTION

Interior Design addresses the importance of human habitat and the built environment that supports human activities and values. It generates order to the space occupied by people, by making one aware of how the space influences our identity, productivity and wellness. As an interior designer one has the vital task to create intentional spatial interactions that can have a positive effect on human beings in whichever space they may inhabit – working, living or recreational.

The Interior Design program is built to initiate a thoughtful and reactive design process. It facilitates the students to understand and create human habitation spaces through varied understandings of theory, studio, practical skills, live projects, case studies, field trips and encounters with industries and professionals. It also aims at inculcating an environmental awareness within the student for the benefit of human health, well being and productivity.

The students are trained in representative skills through regular studios and a team of specialized Design Faculty that focus on freehand drawing, technical drawing and model making. These skills are further supplemented through elective subjects such as Interior Lighting, Interior Landscape, Sustainable Interior, Set Design, Interior Project Management, Furniture Design and Product Design. The program aims at promoting a holistic approach to the designing process by simultaneously involving inputs from theory, allied subjects and electives into design.

The program pushes the student to become an independent and effective learner and opens up a range of prospects on completion of the course. The industry offers opportunities to young designers in large set ups of architecture, interior design, kitchen design and exhibition design practices. Graduates are equipped to begin their own practice or further their education by applying to study in post-graduate programs ranging from furniture, exhibition, product and interaction design to craft & technology, history- theory- criticism and Energy efficiency & green design.

(Examination conducted by individual colleges) | TEACHING SCHEME CREDITS **EXAMINATION SCHEME** SEM-I SUB.NO SUBJECTS lecture Theory | Studio | TOTAL | Theory | Internal | External | TOTAL Studin Basic Design Studio -1 Interior Design Studio - 1 Interior Construction -1 Interior Materials & Products -1 Interior Drawings & Representation Skills -1 History of Furniture -1 TOTAL **TEACHING SCHEME** CREDITS **EXAMINATION SCHEME SEM-II** (Examination conducted by individual colleges) SUBJIECTS Theory Internal External SUB.ND Studin Theory Studio TOTAL TOTAL lecture Basic Design Studio -2 Interior Design Studio -2 Interior Construction -2 Interior Materials & Products -2 Interior Drawings & Representation Skills -2 History of Furniture -2 TOTAL **TEACHING SCHEME** SEM-III (Examination conducted by individual colleges) CREDITS **EXAMINATION SCHEME** SUBJECTS Theory Studio TOTAL Theory Internal External TOTAL SUB.NO Studio Lecture Interior Design Studio -3 Interior Construction -3 **Interior Materials & Products-3** Interior Drawings & Representation Skills -3 **Environmental Studies -1** Interior Services -1 TOTAL **TEACHING SCHEME SEM-IV** (Examination conducted by individual colleges) CREDITS **EXAMINATION SCHEME** SUB.ND SUBJECTS Lecture Studio Theory Studio TOTAL Theory Internal External TOTAL Interior Design Studio -4 Interior Construction -4 Interior Materials & Products-4 Interior Drawings & Representation Skills -4 Environmental Studies -2 Interior Services -2 TOTAL SEM-V (Examination conducted by University of Mumbai) TEACHING SCHEME CREDITS **EXAMINATION SCHEME** Theory | Studio | TOTAL | Theory | Internal | External | SUB.NO SUBJECTS Lecture Studio TOTAL Specialty Interior Design Studio -5 Interior Design Dissertation -1 Interior Working Drawing -1 Advance Interior Services -3 Interior Internship Practice -1 Elective -1 TOTAL EXAMINATION SCHEME CREDITS SEM-VI(Examination conducted by University of Mumbai) | TEACHING SCHEME Studio Theory | Studio | TOTAL | Theory | Internal | External | TOTAL SUB.NO SUBJECTS Lecture Specialty Interior Design Studio -6 Interior Design Dissertation -2 Interior Working Drawing -2 Advance Interior Services -4 Interior Internship Practice -2 Elective -2 TOTAL

TEACHING AND EXAMINATION SCHEME

BACHELOR OF ARTS (INTERIOR DESIGN) (3 YEAR DEGREE COURSE) DETAILS OF SCHEME OF EXAMINATION

	SEMESTER-I EXAMINATION		THE	ORY		SESSI	ONAL N	//ARKS		
	Exam conducted by individual colleges					INTER	NAL	EXTER	RNAL	
SNO	COURSES	No. of Papers	Duration (Hours)	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Max. Marks for the Course
101	Basic Design Studio -1					150	75			150
102	Interior Design Studio - 1	1	6	50	20	100	50			150
103	Interior Construction -1	1	3	50	20	50	25			100
104	Interior Materials & Products -1					50	25			50
105	Interior Drawings & Rep. Skills -1	1	3	50	20	50	25			100
106	History of Furniture -1					50	25			50
				Т		JARKS	FOR EX		ATION	600
	SEMESTER-II EXAMINATION		THE	ORY		SESSI	ONAL N	//ARKS		
	Exam conducted by individual colleges		1		ſ	INTE	RNAL	EXTE	RNAL	
SNO	COURSES	No. of Papers	Duration (Hours)	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Max. Marks for the Course
201	Basic Design Studio -2					100	50	50	25	150
202	Interior Design Studio -2					100	50	50	25	150
203	Interior Construction -2					50	25	50	25	100
204	Interior Materials & Products -2					50	25			50
205	Interior Drawings & Rep. Skills -2					50	25	50	25	100
206	History of Furniture -2					50	25			50
				Т	OTAL N	JARKS	FOR EX		ATION	600
						Γ				Γ
	SEMESTER-III EXAMINATION		THE	ORY			ONAL N	-		
	Exam conducted by individual colleges					INTE	RNAL	EXTE	RNAL	
SNO	COURSES	No. of Papers	Duration (Hours)	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Max. Marks for the Course
301	Interior Design Studio -3	1	6	50	20	100	50			150
302	Interior Construction -3	1	3	50	20	100	50			150
303	Interior Materials & Products-3					50	25			50
304	Interior Drawings & Rep. Skills -3	1	3	50	20	50	25			100
305	Environmental Studies -1					50	25			50
306	Interior Services -1	1	3	50	20	50	25			100

	SEMESTER-IV EXAMINATION		THE	ORY		SE	SSIONA		RKS	
	Exam conducted by individual colleges					INTE	RNAL	EXTE	RNAL	
SNO	COURSES	No. of Papers	Duration (Hours)	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Max. Marks for the Course
401	Interior Design Studio -4					100	50	50	25	150
402	Interior Construction -4					100	50	50	25	150
403	Interior Materials & Products-4					50	25			50
404	Interior Drawings & Rep. Skills -4					50	25	50	25	100
405	Environmental Studies -2					50	25			50
406	Interior Services -2					50	25	50	25	100
				Т		//ARKS	FOR EX	(AMIN/	ATION	600
	SEMESTER-V EXAMINATION		THE	ORY			SSIONA			
	Examination conducted by University of Mumbai					INTE	RNAL	EXTE	RNAL	
SNO	COURSES	No. of Papers	Duration (Hours)	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Max. Marks for the Course
501	Specialty Interior Design Studio -5					100	50	50	25	150
502	Interior Design Dissertation -1					100	50	50	25	150
503	Interior Working Drawing -1	1	3	50	20	50	25			100
504	Advance Interior Services -3	1	3	50	20	50	25			100
505	Interior Professional Practice -1	1	3	50	20					50
506	Elective -1					50	25			50
				Т		ARKS	FOR EX	(AMIN/	ATION	600
						Γ				
	SEMESTER-VI EXAMINATION		THE	ORY			SSIONA	1		-
	Examination conducted by University of Mumbai					INTE	RNAL	EXTE	RNAL	
SNO	COURSES	No. of Papers	Duration (Hours)	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Maximum Marks	Min. Marks for passing	Max. Marks for the Course
601	Specialty Interior Design Studio -6					100	50	50	25	150
602	Interior Design Dissertation -2					100	50	50	25	150
603	Interior Working Drawing -2					50	25	50	25	100
604	Advance Interior Services -4					50	25	50	25	100
605	Interior Professional Practice -2							50	25	50
606	Elective -2					50	25			50
				Т		ARKS	FOR EX		ATION	600

BACHELOR OF ARTS (INTERIOR DESIGN) (3 YEAR DEGREE COURSE) Syllabus (Course Content) for B. A. (Interior Design) Course

Semester-I

101 Basic Design Studio-1

Credits:6Teaching Hours:Lectures: -----Sessional Marks:Internal: 150

Studio: 96 periods of 1 hour each External: ------

Basic design defines the base of design aspects, in terms of design elements and principles that are generically applicable to any design stream including interior design.

The subject aims at developing observational and creative skills that would enhance the visual perception of students and evolve aesthetic sensitivity.

The course content would be developed by individual colleges in accordance with their time frames. The scheme would include visual studies primarily applicable to graphic, product, furniture design, art and architecture etc., with special emphasis on study of forms, colours, light, textures, and similar visual elements.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, journals, visit reports, power point presentations etc.

102 Interior Design Studio-1

Credits:	6	
Teaching Hours:	Lectures:	Studio: 96 periods of 1 hour each
Sessional Marks:	Internal: 100	External:
Examination:	Interior Design paper of 6 hours du	ration for 50 marks. Minimum 20 marks
	for passing	

Study the Parameters of design anthropometrics and ergonomics, human activity and use of interior spaces and furniture. Students are expected to present the study through detailed measured drawings and sketches.

In this semester the learner is expected to apply the basic design acumen and anthropometric observations in the designing of Residential interior spaces such as Individual rooms of an apartment and/or small Studio apartment.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, case studies, visit reports, power point presentations etc.

103 Interior Construction-1

Credits: Teaching Hours: Sessional Marks: Examination:	4 Lectures: 16 periods of 1 hour each Internal: 50 Theory paper of 3 hours duration for passing	External:
Walling Systems:	· · · · · ·	aces and other uses (half brick and one te blocks, hollow blocks, aerated concrete
Openings:	Teak wood door and window frames linings, Arches in brick and stone, Lir	s, metal composite frames, stone jamb ntels
Doors and Windows	: Teak wood frame door and window Flush doors	shutters with panel in different materials,
Note:	Continuous assessment of sessional journals, visit reports, sketch books,	

104 Interior Materials & Products-1

Credits:	2	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 16 periods of 1 hour each
Sessional Marks:	Internal: 50	External:

This semester will give an overview of the basic materials that are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions.

Materials such as natural stones, bricks, light weight concrete blocks, cement, concrete, ceramics, commercial boards and timber will be covered in this semester.

For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through Market Research and Presentations by students there upon.

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

105 Interior Drawings & Representation Skills-1

Credits:	4	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 48 periods of 1 hour each
Sessional Marks:	Internal: 50	External:
Examination:	Drawing paper of 3 hours duration f	or 50 marks. Minimum 20 marks for
	passing	

In this semester the learner will be introduced to drafting procedures, graphic codes, symbols and architectural lettering, architectural scales and their application to real objects and drawings, construction of basic and complex geometrical shapes.

The learner will also understand orthographic projections of simple and complex solids and hollow objects and sections, isometric and axonometric projections.

Note: Continuous assessment of sessional work may consist of sketches and drawings etc.

106 History of Furniture-1

Credits:	2	
Teaching Hours:	Lectures: 32 periods of 1 hour each	Studio:
Sessional Marks:	Internal: 50	External:

- Introduction to furniture history.
- Evolution of furniture over a period based on climate, social factors, life style, technical and stylistic development availability of materials and various movements in design.
- Introduction to furniture terminology based on methods of joinery techniques such as parquetry, marquetry gilding, turning, pierced and chip carving, ormolu mounts.
- Ancient civilization, art, architecture of Egypt. Furniture preserved in ancient pyramids.
- Ancient classical orders developed by them and various methods to overcome optical illusion. Furniture developed by Greeks and Romans by 3rd century A.D.
- Medieval era in Europe, utilitarian furniture developed from Romanesque till Gothic times. Gothic cathedrals preserving art, manuscripts, furniture, paintings, sculptures, stain glass.
- Beginning of Renaissance-second golden era in Europe, age of discovery. Renaissance furniture of Italy and France.
- Baroque and Roccoco furniture of 17th century Europe.
- Neoclassical and Regency period in history of furniture-18th century.

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Semester-II

201 Basic Design Studio-2

Credits:6Teaching Hours:Lectures: -----Sessional Marks:Internal: 100

Studio: 96 periods of 1 hour each External (Viva Voce): 50

Evolving further from course content of semester 1, the focus of study shall be based on application of the observational and creative skills to Design and planning process

The interplay of planning principles like balance, harmony, rhythm etc and the study and application of anthropometry and ergonomics will be used as a tool to understand aesthetic and functional concepts of design.

Concepts of evolving technology, space modulation, concept evolution, history, styling and theme based designs will be introduced to generate a complete basic understanding.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, journals, visit reports, power point presentations etc.

202 Interior Design Studio-2

Credits:	6
Teaching Hours:	Lectures:
Sessional Marks:	Internal: 100

Studio: 96 periods of 1 hour each External (Viva Voce): 50

In this semester the learner is expected to enhance their skills by application of design concept and/or theme to residential interior space by understanding the usage of basic materials and construction. The students will be able to design a medium size residential apartment.

Study and application of anthropometry, ergonomics, design principles and components related to retail spaces. The design exercise may include small retail spaces such as Garment Boutique, Accessories store etc.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, case studies, visit reports, power point presentations etc.

203 Interior Construction-2

Credits: Teaching Hours: Sessional Marks:	4 Lectures: 16 periods of 1 hour each Internal: 50	Studio: 48 periods of 1 hour each External (Viva-Voce): 50
Partition Systems:	Wooden frame fixed partition with s Partition, Dry wall partition systems	ingle/double skin, Aluminium frame
Cladding and Paneling:	Wet and Dry wall cladding in differen materials	nt materials, Wall paneling in different
Note:	Continuous assessment of sessional journals, visit reports, sketch books,	,

204 Interior Materials & Products-2

Credits:	2	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 16 periods of 1 hour each
Sessional Marks:	Internal: 50	External:

This semester will give an in-depth knowledge and understanding of the materials that are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions and also the aesthetic value it will add with its use.

Materials such as artificial stones, semi-precious stones, paints, polishes, ferrous and non-ferrous metals, plastic and polycarbonates will be covered in this semester.

For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through Market Research and Presentations by students there upon.

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

205 Interior Drawings & Representation Skills-2

Credits:	4	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 48 periods of 1 hour each
Sessional Marks:	Internal: 50	External (Viva-Voce): 50

SCIOGRAPHY

In this semester the learner will be introduced to the basic principles of sciography and its application to the field of interior design and drawings, sciography of two dimensional objects in plan and elevation. Sciography of three dimentional objects in plan, elevation and views.

PERSPECTIVE

The learner will also be introduced to basic terms, principles, types and techniques of perspective drawing, one, two and three point perspective of simple interior elements (drafted and free hand), presentation of interior views (drafted and free hand) with pencil and colour rendering.

Note: Continuous assessment of sessional work may consist of sketches and drawings etc.

206 History of Furniture-2

Credits:	2	
Teaching Hours:	Lectures: 32 periods of 1 hour each	Studio:
Sessional Marks:	Internal: 50	External:

- English furniture from 16th to 18th century. Tudor, Stuart, Jacobean, Restoration period, Queen Ann period, Gregorian period, Chippendale, Shereton.
- Beginning of 19th century industrialization.
- Victorian Era in England, Art and Craft movement in design.
- Art Nouveau movement in art and furniture. Art movements before and after world wars.
- Cubism of Picasso, De-stijl movement.
- Bauhaus school of Design and its impact on modern design.
- Art Deco movement.
- Oriental furniture and how it is different from western counterparts. Furniture of Japan and China.
- Indian furniture, traditional and colonial.

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Semester-III

301 Interior Design Studio-3

Credits:	6	
Teaching Hours:	Lectures:	Studio: 96 periods of 1 hour each
Sessional Marks:	Internal: 100	External:
Examination:	Interior Design paper of 6 hours du	ration for 50 marks. Minimum 20 marks
	for passing	

In this semester the learner is expected to apply advanced skills to planning of residential interior spaces with clear understanding and usage of contemporary materials, construction techniques and services required for the design project. The design exercise may include large multilevel luxury residence such as a Penthouse, Bungalow etc.

Study and application of anthropometry, ergonomics, basic design principles and components related to hospitality environment. The design exercise may include small to medium sized café or quick service restaurant.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, case studies, visit reports, power point presentations etc.

302 Interior Construction-3

Credits: Teaching Hours: Sessional Marks: Examination:	6 Lectures: 16 periods of 1 hour each Studio: 80 periods of 1 hour each Internal: 100 External: Theory paper of 3 hours duration for 50 marks. Minimum 20 marks for passing
Structural Systems:	 Introduction to different structural systems for buildings:- Load bearing brick/stone masonry RCC frame structure with column, beam, slab, cantilevers etc. Steel framed construction with different rolled sections
Floor Systems:	Single floor in wood and steel with different floor finishes. Introduction to double floor in steel.
Stairs:	Single flight and dog-legged stairs in wood and steel, principles of steel spiral stairs.
Roofing Systems:	Pitch roof/lean-to roof in steel with coated metal sheets, colour clay tiles and water proofing of flat terrace and toilet.
Note:	Continuous assessment of sessional work may consist of drawing plates, journals, visit reports, sketch books, power point presentations etc.

303 Interior Materials & Products-3

Credits:	3	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 32 periods of 1 hour each
Sessional Marks:	Internal: 50	External:

This semester will include advanced materials and products that are used in Interior and Architecture in the current day and age. Knowledge of these materials and their implementation will help in the enhancement and up-liftment of projects. It will also cater to the specific use of products keeping in mind the final utilization and precautionary measures that need to be consciously considered while designing.

Materials and techniques used for water-proofing, fire-fighting, thermal insulation, and other outdoor and infrastructural products used as substitutes in today's times will be covered in this semester.

Major part of this semester will focus on Market Research and Presentations by students.

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

304 Interior Drawings & Representation Skills-3

Credits:	4	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 48 periods of 1 hour each
Sessional Marks:	Internal: 50	External:
Examination:	Computer based practical exam of 3	hours duration for 50 marks.
	Minimum 20 marks for passing	

COMPUTER APPLICATIONS

The learner will be introduced to fundamentals of computer systems, hardware, peripheral devices, operating systems, application software etc in interior practice, understanding and application of MS-Word, Power point etc. Needs and tools for design and drafting. Preparation of two dimensional interior drawings (including plans, elevations and sections), incorporating layers, line-weights, texts, scale, dimensioning and formatting of drawings for taking prints and plots.

Learner will be required to apply all the above skills learned during this semester on the design assignments prepared in the previous / current semester and present it for assessment.

Note: Continuous assessment of sessional work may consist of application of various skills learned during the semester on the previous / current semester design portfolio.

305 Environmental Studies-1

Credits:2Teaching Hours:Lectures: 16 periods of 1 hour eachSessional Marks:Internal: 50External: -----

In this semester the learner is expected to understand the concept and principles of environment and its impact on interior spaces, including climatic study and parameters of human comfort. Learner should be exposed to use of preliminary analysis tools used during the early planning stages of a building project. Focus should also be on the following:-

- Understanding climate / weather and study of 6 climatic zones and its effect on the structure
- Pollutions and its effect on humans
- Relation of environment on humans.
- Climatic factors which affect thermal comfort in humans, along with its interface with Interiors.
- Thermal comfort and solar passive design
- Understanding windrose, sun-path, bio-climatic chart, psychometric chart, mahoney tables.
- Importance of materials in the Interiors. Properties of materials.
- **Note:** Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

306 Interior Services-1

Credits:	3	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 32 periods of 1 hour each
Sessional Marks:	Internal: 50	External:
Examination:	Theory paper of 3 hours duration fo	r 50 marks. Minimum 20 marks for passing

In this semester the learner will be introduced to the principles of water supply, sanitation, drainage, electrification system as applicable interior spaces. They will be dealt with the following topics in detail:-

- Cold and hot water distribution systems, types of water supply pipes and joints, fixtures and fittings.
- Soil and waste water disposal systems, types of sanitary pipes and joints.
- Plumbing works for Kitchens, toilets, baths, washing machines, dishwasher, loft tanks etc.
- Introduction to electrical systems as applicable to interior spaces.
- Electrical system designs including materials, specifications and types.

Sessional work may include application of above knowledge on their previous / current semester design.

Note: Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

Semester-IV

401 Interior Design Studio-4

Credits:6Teaching Hours:Lectures: -----Sessional Marks:Internal: 100

Studio: 96 periods of 1 hour each External (Viva Voce): 50

In this semester the learner is expected to enhance their skills of planning of Hospitality spaces with clear understanding and application of functionality, space usage and concept/theme, use of contemporary materials, construction techniques and advanced services required for the design project. The design exercise may include large fine-dining restaurant.

Study and application of anthropometry, ergonomics, basic design principles and components related to Commercial Environment. The student will be able to design activity based small to medium sized commercial interior spaces such as branch office of Bank, Branch office of Multi National Corporation etc.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, case studies, visit reports, power point presentations etc.

402 Interior Construction-4

Credits: Teaching Hours: Sessional Marks:	6 Lectures: 16 periods of 1 hour each Internal: 100	Studio: 80 periods of 1 hour each External (Viva-Voce): 50
Advance Partition Systems:	Sliding folding partition in metal and paneling in metal frame finished in v	glass. Thermal/Acoustical partition and various materials.
Suspended Ceiling Systems:	Gypsum board ceiling, modular ceilir	ng systems in various materials.
Raised flooring Systems:	Raised floor for commercial spaces a	ind I.T. rooms.
Note:	Continuous assessment of sessional journals, visit reports, sketch books,	

403 Interior Materials & Products-4

Credits:3Teaching Hours:Lectures: 16 periods of 1 hour eachSessional Marks:Internal: 50External: -----

This semester purely focuses on capturing the adaptability and enhanced usage of materials and products available in the market and also in understanding the troubleshooting measures by using new substitutes to products. It also caters to the comparative learning of old aged products to new age technological advancements and refinement needed in the products and their usage today.

Materials used for as plumbing and acoustics, along with different types of lighting and lighting techniques are the primary topics in this semester.

Working studios and market surveys with presentations will be collectively used as a medium for updating information and understanding of the subject.

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

404 Interior Drawings & Representation Skills-4

Credits:4Teaching Hours:Lectures: 16 periods of 1 hour eachSessional Marks:Internal: 50External (viva-voce): 50

COMPUTER AIDED DRAFTING

In this semester the learner will be introduced to basic understanding of other software like Architectural Desktop, Revit, Archicad etc including 3D modeling (creating shades and shadows, attaching materials and rendering), CAD customization for different project types.

Learner will be required to apply all the above skills learned during this semester on the design assignments prepared in the previous / current semester and present it for assessment.

Note: Continuous assessment of sessional work may consist of application of various skills learned during the semester on the previous / current semester design portfolio.

405 Environmental Studies-2

Credits:2Teaching Hours:Lectures: 16 periods of 1 hour eachSessional Marks:Internal: 50External: -----

In this semester the learner is expected to make practical applications of knowledge gained in the previous semester in a given interior space. Also, knowledge of solar passive features and its practical applications along with principles and Importance of conservation of energy and natural resources should also be discussed.

Application of Environmental Studies for Interiors:

- Importance of day lighting, IAQ its application and ventilations
- Water and its conservation
- Introduction to sustainable material
- Concept of Reduce Reuse Recycle
- Properties of materials and heat transfer.
- Evaluation of materials on environmental aspects
- Lighting design and energy usage, conservation of energy.
- Introduction to all mechanical systems used in the interiors.
- Understanding of LEED, GRIHA.
- **Note:** Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

406 Interior Services-2

Credits:3Teaching Hours:Lectures: 16 periods of 1 hour eachSessional Marks:Internal: 50External (Viva-voce): 50

In this semester the learner will be introduced to the principles of lighting, heating, ventilation and conditioning of air as applicable interior spaces. They will be dealt with the following topics in detail:-

- Illumination standards and artificial lighting design and lighting power density.
- Day light integrated lighting systems, timers and sensors.
- Different types of illuminations.
- Study of lighting fixtures and fittings used in interior spaces, special lighting systems for museums or displays.
- Provisions of standards and energy codes related to interior electrical services.
- Principles of thermal comfort parameters for humans.
- Principles of natural ventilation.

Sessional work may include application of above knowledge on their previous / current semester design.

Note: Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

Semester-V

501 Specialty Interior Design Studio-5

Credits:	6
Teaching Hours:	Lectures:
Sessional Marks:	Internal: 100

Studio: 96 periods of 1 hour each External (Viva Voce): 50

In this semester the learner is expected to apply individual professional design acumen with enhanced skills of planning interior spaces related to commercial activity with use of **eco friendly** materials and practices. Learner will provide due emphasis to the relationship of space to the contextual environment, achieving individual interpretations through client profiling, case studies and framing of requirements.

The subject further explores application of advanced knowledge to materials used, construction techniques, modular furniture and services. The exercise may include large commercial projects like corporate office of a Multi National corporation.

Study and application of anthropometry, ergonomics, basic design principles and components related to Public spaces. The student will be able to design activity based small to medium sized Public spaces such as Art Gallery, Convention centres, Multiplexes etc.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, case studies, visit reports, power point presentations etc.

502 Interior Design Dissertation-1

Credits:6Teaching Hours:Lectures: 16 periods of 1 hour eachStudio: 80 periods of 1 hour eachSessional Marks:Internal: 100External (Viva-voce): 50

In this semester the learner is introduced to basic research principles and research methods, report writing skills and dissertation writing. Learner is expected to choose their own topic of research on a specific area/field after consultation with the dissertation guide/subject coordinator.

He / She are also required to do the following before the end of the semester:-

- finalize the topic and guide,
- set the aim-objectives and scope of study,
- conduct research and review related literature,
- identify and conduct related case studies and project reviews,
- collect data and critically analyze the data,
- finalize the Interior Design brief/programme and
- identify and finalize the site for design.

Note: Continuous assessment of sessional work may consist of the above in the given time frame as set by the guide/subject coordinator. Learners are required to submit a draft (printed) copy of the dissertation volume by the end of the semester.

503 Interior Working Drawing-1

Credits:	4	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 48 periods of 1 hour each
Sessional Marks:	Internal: 50	External :
Examination:	Theory paper of 3 hours duration fo	r 50 marks. Minimum 20 marks for passing

In this semester the learner is expected to prepare working drawing and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes. The learner is suggested to prepare working drawing and related details of the following furniture designed by them in the previous semesters.

Working drawing of the following may be prepared based on the design projects done in Sem.-III & IV

- 1. Dining Table with Chair in wood.
- 2. Study table
- 3. Double Bed with Side Table in wood.
- 4. His and Her wardrobe in plywood as basic material.
- 5. Wall unit / Partition divider
- 6. Built-in Kitchen Platform.

Note: Continuous assessment of sessional work may consist of drawing plates, related case studies and market survey with respect to hardware, materials and finishes.

504 Advance Interior Services-3

Credits:	4	
Teaching Hours:	Lectures: 16 periods of 1 hour each	Studio: 48 periods of 1 hour each
Sessional Marks:	Internal: 50	External:
Examination:	Theory paper of 3 hours duration fo	r 50 marks. Minimum 20 marks for passing.

In this semester the learner will be introduced to the principles of heat, sound, mechanical ventilation and air conditioning as applicable interior spaces. They will be dealt with the following topics in detail:-

- Thermal insulation and its application.
- Acoustics and sound in relation to interior spaces, use of acoustical materials and its properties.
- Acoustic consideration for conference room, meeting room, similar spaces.
- Mechanical ventilation and its application.
- Heat load calculations.
- Introduction to air conditioning systems, methods of air conditioning, equipments and components used in air conditioning.
- Selection criteria for air conditioning systems.
- Ducting principles, layout schemes and placement of air conditioner outlets in central air conditioning systems.

Sessional work may include application of above knowledge on their previous / current semester design.

Note: Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

505 Interior Internship Practice-1

Credits:	2	
Teaching Hours:	Lectures: 32 periods of 1 hour each	Studio:
Sessional Marks:	Internal:	External :
Examination:	Theory paper of 3 hours duration fo	r 50 marks. Minimum 20 marks for passing

In this semester the learner will be equipped with knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing profession of Interior Architecture. The following topics will be dealt in detail:-

ESTIMATING, COSTING AND ANALYSING RATES

- Introduction to concept of estimation, costing and rate analysis. Need for estimating, costing and rate analysis.
- Components of estimation, costing and analyzing rates (drawings and specifications, units and modes of measurements, work output, material and labour cost, contingencies, profit margins, indirect costs etc.
- Methods of estimating (lump-sum, work specific, item rate etc.); costing (percentage basis, item rate basis etc) and rate analysis (item rate basis).

TENDER AND TENDERING

- Introduction, definitions and Tender types.
- Tendering Procedure: Tender document preparation, types of invitation (public notice, private invitation and negotiation), floating of tender, opening and award of tender.
- Aspects of Tender: Units of measurement and modes of measurements; specifications of raw material (introduction only), schedule writing.
- Contents of Tender Document: Undertaking from contractor, prequalification of tender, general and special conditions of tender, bill of quantities, general specifications, material specification, special specification, set of working drawings.
- Contractual Procedures: Work order letter and acceptance letter, Interim bills and final bills, bills certifications.

Note: Students are also expected to visit exhibitions, material manufacturers units, ongoing interior sites, attend seminars and presentations of consultants and vendors related to interior profession.

506 Elective-1

Credits:	2	
Teaching Hours:	Lectures:	Studio: 32 periods of 1 hour each
Sessional Marks:	Internal: 50	External :

The topic for elective courses shall be developed by individual colleges based on the current trends in the practice and availability of resource persons. However, few topics are suggested for the elective course.

- 1. Interior Lighting
- 2. Interior Landscape
- 3. Sustainable Interior
- 4. Set Design
- 5. Interior Project Management
- 6. Furniture Design / Product Design

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

Semester-VI

601 Specialty Interior Design Studio-6

6

Credits: Teaching Hours: Sessional Marks:

Lectures: -----Internal: 100

Studio: 96 periods of 1 hour each External (Viva Voce): 50

In this semester the learner is expected to apply individual professional design acumen with enhanced skills of planning interior environment related to Public spaces, study and documentation of project specific general and special requirements, establishment of the project parameters with reference to the social, economical and contextual environment.

The learner is also expected to use modern materials, construction techniques and services, design and integration of signage, graphic design, print and electronic media as per specific requirements of the project.

The exercise may include specialty projects such as Hospitals, Passenger concourse at Airports, Shopping malls etc.

Note: Continuous assessment of sessional work may consist of sketches, drawings, study models in various materials, case studies, visit reports, power point presentations etc.

602 Interior Design Dissertation-2

Credits:	6
Teaching Hours:	Lectures:
Sessional Marks:	Internal: 100

Studio: 96 periods of 1 hour each External (Viva-voce): 50

In this semester the learner should have a focused individualistic approach towards design as per the brief finalized in the previous semester in consultation with the guide resulting in professionally satisfying presentation of the design that would put to test the individual strength and caliber of the learner.

Note: Continuous assessment of sessional work may consist of design developments at various stages indicating the above in the given time frame as set by the guide/subject coordinator.

At the end of the Semester each learner is required to submit the final printed two copies of the dissertation volume supplemented with finished, rendered drawings to suitable scale with related detailing, all certified by the guide/subject coordinator and Principal which may be presented for final Viva-voce examination.

603 Interior Working Drawing-2

Credits:4Teaching Hours:Lectures: 16 periods of 1 hour eachSessional Marks:Internal: 50External (Viva-voce): 50

In this semester the learner is expected to prepare working drawing and details of Commercial furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes. The learner is suggested to prepare working drawing and related details of the following furniture designed by them in the previous semesters.

Working drawing of the following may be prepared based on the design projects done in Sem.-V & VI

- 1. Executive Desk with side / back table
- 2. Reception Counter
- 3. Conference Table
- 4. Shop front / Show window
- 5. Bank Counter
- 6. Bar Counter

Note: Continuous assessment of sessional work may consist of drawing plates, related case studies and market survey with respect to hardware, materials and finishes.

604 Advance Interior Services-4

Credits:4Teaching Hours:Lectures: 16 periods of 1 hour eachStudio: 48 periods of 1 hour eachSessional Marks:Internal: 50External (Viva-voce): 50

In this semester the learner will be introduced to the principles of communication, safety and security systems as applicable interior spaces. They will be dealt with the following topics in detail:-

- Types of communication- data, telephone systems and their usage and application, server rooms.
- Fire safety systems fire fighting provisions, types and applications.
- Fire retarding materials, fire rated doors etc.
- Introduction to principles of security, types of security systems and its applications.

Sessional work may include application of above knowledge on their previous / current semester design.

Note: Continuous assessment of sessional work may consist of project work, case studies, research, power point presentations etc.

605 Interior Internship Practice-2

Credits:2Teaching Hours:Lectures: 32 periods of 1 hour eachStudio: -----Sessional Marks:Internal: -----External (Viva-voce) : 50

In this semester the learner will be equipped with knowledge and skills needed such as management of office along with current practices, codes of conduct required to enhance skills and techniques of managing small and large scale residential and commercial interior projects.

CAREER OPPORTUNITIES AND PROFESSIONAL ETHICS

- Avenues for professional practice including advantages and limitations
- Professional Ethics
- Codes of conduct and responsibility towards clients, fellow professionals, profession, contractors, suppliers, other consultants and the society.
- Entering the profession.

OFFICE AND INTERIOR PROJECT MANAGEMENT

- Working of interior design studio and ideal office structure, distribution of work, authority, duties and responsibilities, reporting etc.
- Work ethics: Acts applicable, basis for professional fees and scales of fees, accounting, maintenance of books of accounts and records.
- Basic principles of management and application to interior designing projects.
- Introduction to Bar Charts, Gantt Chart, PERT / CPM.

Note: Students are also expected to visit exhibitions, material manufacturers units, ongoing interior sites, attend seminars and presentations of consultants and vendors related to interior profession.

606 Elective-2

Credits:2Teaching Hours:Lectures: -----Sessional Marks:Internal: 50

Studio: 32 periods of 1 hour each External: ------

The topic for elective courses shall be developed by individual colleges based on the current trends in the practice and availability of resource persons. However, few topics are suggested for the elective course.

- 1. Interior Lighting
- 2. Interior Landscape
- 3. Sustainable Interior
- 4. Set Design
- 5. Interior Project Management
- 6. Furniture Design / Product Design

Note: Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

O.6240 :- BACHELOR OF ARTS (INTERIOR DESIGN) (3 YEAR DEGREE COURSE)

O.6241 :- ELIGIBILITY

Candidate should be an Indian National and should have passed the HSC (10+2 level) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination **OR**

International Baccalaureate Diploma, after 10 years of schooling,

AND

Candidate should have passed Aptitude Test conducted by the University with minimum 40% marks.

XII Arts/Science/Commerce with aptitude test of 200 marks.

Where the candidate require 80 marks (40%) minimum to qualify.

WEIGHTAGE

Aptitude Test– 100% (Maximum) Merit List to be prepared by Aptitude Test

ADMISSION TO SEMESTER-I

The admissions shall be carried out by the individual college, based on the marks obtained in the Aptitude Test as mentioned above. Admissions shall be made in fair, transparent, non-exploitative and based on merit.

University of Mumbai

Regulations for BACHELOR OF ARTS (INTERIOR DESIGN) DEGREE PROGRAMME to be introduced from Academic Year 2015-2016

EXAMINATIONS

Examinations for Semester-I, Semester-II, Semester-III and Semester-IV to be conducted by colleges affiliated to the University of Mumbai.

Examinations for Semester-V and Semester-VI to be conducted by University of Mumbai as per the scheme of examination prescribed in the syllabus.

BACHELOR OF ARTS (INTERIOR DESIGN) SEMESTER-I

Bachelor of Arts (Interior Design) Semester-I examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-I of Bachelor of Arts (Interior Design) which will be conducted by the College affiliated to the University of Mumbai.

R.8990:- A candidate for being eligible for appearing to the theory examination of Semester-I of the Bachelor of Arts (Interior Design) programme-

a) Must have kept 75% attendance for Semester-I of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.

BACHELOR OF ARTS (INTERIOR DESIGN) SEMESTER-II

R.8991:- Admission to Semester-II of the Bachelor of Arts (Interior Design) Programme

A candidate for being eligible for admission to the Semester-II of the Bachelor of Arts (Interior Design) degree programme of the University of Mumbai-

a) Must have kept 75% attendance for Semester-I of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.

Bachelor of Arts (Interior Design) Semester-II examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-II of Bachelor of Arts (Interior Design) programme which will be conducted by the College affiliated to the University of Mumbai.

R.8992:- A candidate for being eligible for appearing to the Viva-Voce examination of Semester-II examination of the Bachelor of Arts (Interior Design) programme,

- a) Must have kept 75% attendance for Semester-II of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed internal heads of passing for the courses of Semester-II for which Viva-Voce examinations are to be conducted.

BACHELOR OF ARTS (INTERIOR DESIGN) SEMESTER-III

R.8993:- Admission to Semester-III of the Bachelor of Arts (Interior Design) Programme

A candidate for being eligible for admission to the Semester-III of the Bachelor of Arts (Interior Design) degree programme of the University of Mumbai-

- a) Must have kept 75% attendance for Semester-II of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of passing of Semester-I

Bachelor of Arts (Interior Design)Semester-III examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-III of Bachelor of Arts (Interior Design) programme which will be conducted by the College affiliated to the University of Mumbai.

R.8994:- A candidate for being eligible for appearing to the theory examination of Semester-II of the Bachelor of Arts (Interior Design) programme,

- a) Must have kept 75% attendance for Semester-III of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed Semester-I examinations conducted by the college.

BACHELOR OF ARTS (INTERIOR DESIGN) SEMESTER-IV

R.8995:- Admission to Semester-IV of the Bachelor of Arts (Interior Design) Programme

A candidate for being eligible for admission to the Semester-IV of the Bachelor of Arts (Interior Design) degree programme of the University of Mumbai-

- a) Must have kept 75% attendance for Semester-III of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of passing of Semester-II

Bachelor of Arts (Interior Design) Semester-IV examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-IV of Bachelor of Arts (Interior Design) programme which will be conducted by the College affiliated to the University of Mumbai.

R.**<u>8996:-</u>** A candidate for being eligible for appearing to the Viva-Voce examination of Semester-IV examination of the Bachelor of Arts (Interior Design) programme,

- a) Must have kept 75% attendance for Semester-IV of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed internal heads of passing for the courses of Semester-IV for which Viva-Voce examinations are to be conducted.

BACHELOR OF ARTS (INTERIOR DESIGN) SEMESTER-V

R.8997:- Admission to Semester-V of the Bachelor of Arts (Interior Design) Programme

A candidate for being eligible for admission to the Semester-V of the Bachelor of Arts (Interior design) degree programme of the University of Mumbai-

- a) Must have kept 75% attendance for Semester-V of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of passing of Semester-III
- c) Must have passed Semester-II examinations conducted by the college.

Bachelor of Arts (Interior Design) Semester-V examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-V of Bachelor of Arts (Interior Design) programme which will be conducted by the University of Mumbai.

R.**<u>8998:-</u>** A candidate for being eligible for appearing to the theory examination of Semester-V of the Bachelor of Arts (Interior design) programme,

- a) Must have kept 75% attendance for Semester-V of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of Semester-IV

c) Must have passed Semester-III examinations conducted by the college.

R.**<u>8999:-</u>** A candidate for being eligible for appearing to the Viva Voce examination of Semester-V of the Bachelor of Arts (Interior Design) programme,

- a) Must have kept 75% attendance for Semester-V of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of Semester-IV
- c) Must have passed Semester-III examinations conducted by the college.
- d) Must have passed internal heads of passing for the courses of Semester-V for which Viva-Voce examinations are to be conducted.

BACHELOR OF ARTS (INTERIOR DESIGN) SEMESTER-VI

R.<u>9000:-</u> Admission to Semester-VI of the Bachelor of Arts (Interior Design) Programme

A candidate for being eligible for admission to the Semester-VI of the Bachelor of Arts (Interior design) degree programme of the University of Mumbai-

- a) Must have kept 75% attendance for Semester-V of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of passing of Semester-IV
- c) Must have passed Semester-III examinations conducted by the college.

Bachelor of Arts (Interior Design) Semester-VI examination

A candidate will be examined in the courses prescribed in the scheme of examination for Semester-VI of Bachelor of Arts (Interior Design) programme which will be conducted by the University of Mumbai.

<u>R.9001:-</u>A candidate for being eligible for appearing to the Viva-Voce examination of Semester-VI examination of the Bachelor of Arts (Interior Design) programme,

- a) Must have kept 75% attendance for Semester-VI of the Bachelor of Arts (Interior Design) degree programme affiliated to the University of Mumbai.
- b) Must have passed all internal heads of passing of Semester-V examinations.
- c) Must have passed Semester-IV examinations conducted by the college.
- d) Must have passed internal heads of passing for the courses of Semester-VI for which Viva-Voce examination is to be conducted.