ALAGAPPA UNIVERSITY

(Accredited with A+ Grade by NAAC (CGPA: 3.64) in the Third Cycle), Graded as Category-I University and granted autonomy by MHRD-UGC)

DIRECTORATE OF COLLABORATIVE PROGRAMMES

Diploma in Interior Design

Regulations and Syllabus

[For those who join the Course in July 2023 and after]

CHOICE BASED CREDIT SYSTEM

GENERAL INSTRUCTIONS AND REGULATIONS

Diploma in Interior Design conducted by Alagappa University, Karaikudi, Tamil Nadu through its Collaborative Institution

Applicable to all the candidates admitted from the Academic year **2023**onwards.

1. **Eligibility:**

   A pass in the Higher Secondary Examination (HSC) conducted by the Government of Tamil Nadu, or an examination accepted as equivalent thereto by the Syndicate for admission to **Diploma in Interior Design.**

2. **Admission:**
   Admission is based on the marks in the qualifying examination.

3. **Duration of the course:**

   The course shall extend over a period of **one year**

4. **Standard of Passing and Award of Division:**
   a. Students shall have a minimum of 40% of total marks of the University examinations in each subject. The overall passing minimum is 40% both in external and aggregate of Continuous Internal Assessment and external in each subject.
   b. The minimum marks for passing in each theory / Lab course shall be 40% of the marks prescribed for the paper / lab.
   c. A candidate who secures 40% or more marks but less than 50% of the aggregate marks, shall be awarded **THIRD CLASS.**
   d. A candidate who secures 50% or more marks but less than 60% of the aggregate marks, shall be awarded **SECOND CLASS.**
   e. A candidate who secures 60% or more of the aggregate marks, shall be awarded **FIRST CLASS.**
   f. The Practical / Project shall be assessed by the two examiners, by an internal examiner and an external examiner.

5. **Continuous internal Assessment:**
   a. Continuous Internal Assessment for each paper shall be by means of Written Tests, Assignments, Class tests and Seminars
   b. **25 marks** allotted for the Continuous Internal assessment is distributed for Written Test, Assignment, Class test and Seminars.
   c. Two Internal Tests of 2 hours duration may be conducted during the semester for each course / subject and the best marks may be considered and one Model Examination will be conducted at the end of the semester prior to University examination. Students may be asked to submit at least five assignments in each subject. They should also participate in Seminars conducted for each subject and marks allocated accordingly.
   d. Conduct of the continuous internal assessment shall be the responsibility of the concerned faculty.
   e. The continuous internal assessment marks are to be submittedto the University at the end of every year.
   f. The valued answer papers/assignments should be given to the students after the valuation is over and they should be asked to check up and satisfy themselves about the marks they have scored.
   g. All mark lists and other records connected with the continuous internal assessments should be in the safe custody of the institution for at least one year after the assessment.

6. **Attendance:**
    - Students must have earned 75% of attendance in each course for appearing for the examination.
    - Students who have earned 74% to 70% of attendance to be applied for condonation in the prescribed form with the prescribed fee.
    - Students who have earned 69% to 60% of attendance to be applied for condonation in the prescribed form with the prescribed fee along with the medical certificate.
    - Students who have below 60% of attendance are not eligible to appear for the examination. They shall re-do the semester(s) after completion of the programme.

7. **Examination:**

Candidate must complete course duration to appear for the university examination. Examination will be conducted with concurrence of Controller of Examinations as per the Alagappa University regulations. **University may send the representatives as the observer during examinations.**University Examination will be held at the end of the each semester for duration of 3 hours for each subject. Certificate will be issued as per the AU regulations.**Hall ticket will be issued to the 1st year candidates upon submission of the list of enrolled students along with the prescribed course fee.**

8. **Miscellaneous**
    a. Each student posses the prescribed text books for the subject and the workshop tools as required for theory and practical classes.
    b. Each student is issued with an identity card by the University to identify his / her admission to the course
    c. Students are provided library and internet facilities for development of their studies.
    d. Students are to maintain the record of practicals conducted in the respective laboratory in a separate Practical Record Book and the same will have to be presented for review by the University examiner.
    e. Students who successful complete the course within the stipulated period will be awarded the degree by the University.

9. **Fee structure**

Course fee shall be as prescribed by the University and 50% of the course fee should be disbursed to University. Special fees and other fees shall be as prescribed by the Institution and the fees structure must intimated to the University. Course fees should be only by Demand draft / NEFT and AU has right to revise the fees accordingly.

10. **Other Regulations:**

Besides the above, the common regulation of the University shall also be applicable to this programme.

Course Structure

S. No	Study Components	Int.	Ext.	Marks	No. of Subjects	Total
1.	Theory Subject	25	75	100	3	300
2.	StudioSubject(Practical)	25	75	100	3	300
3.	Practical Internship	25	75	100	1	100
	TOTAL	-	-	-	7	700

Diploma in Interior Design

Sem.	Subject Code	Subject	T/P	Credits	Hours	Max. Marks		
						Int.	Ext.	Total
I	97911	Principles and Elements of Interior Design	T	3	3	25	75	100
	97912	Interior Materials and finishes	T	3	3	25	75	100
	97913	Building Services and Integration	T	3	3	25	75	100
Total			**-**	**9**	**9**	**75**	**225**	**300**
II	97921	Drawing and Graphics Studio (Practical)	P	2	4	25	75	100
	97922	Computer Aided Design Studio (Practical)	P	2	4	25	75	100
	97923	Interior Space Design Studio (Practical)	P	2	4	25	75	100
	97924	Practical Internship	I	3	9	25	75	100
Total			**-**	**9**	**21**	**100**	**300**	**400**
Grand Total				**18**	**30**	**175**	**525**	**700**

SUB CODE :97911	Principles and Elements of Interior Design	T	Credits:3	Hours:3
OBJECTIVES	Understanding various aspects such as form, scale, light, dimension, height, transitional elements, etc. affecting interior space. Understanding and applying design vocabulary such as Point, Line, shape, colour, texture, area, mass, volume etc. Understanding and applying design principles such as ratio, proportion, scale, balance, harmony, unity, variety, rhythm, emphasis. To develop an understanding of various degrees of enclosure, various types of relationship between spaces.			
UNIT I	**THEORY OF DESIGN** Ratio; proportions – golden section; relationships; scale; Balance – symmetrical, radial, occult; harmony; unity; variety; rhythm; emphasis; Anthropometry – Human standard dimensions for human activities; Ergonomics.			
UNIT II	**WALL PLANES** Use of wall planes to create architectural effects - Natural patterns and textures obtained in masonry walls – articulation of openings in wall planes – effect of tilting the vertical axis of wall planes - niches and alcoves - cornices and mouldings etc. Doors, Windows and Ventilators – Types, materials and articulation.			
UNIT III	**ROOF PLANES** Different types and their visual impact – articulation of skylights and roof apertures – false ceiling – materials, finishes & patterns - types of false ceiling – various types of lighting.			
UNIT IV	**FLOOR PLANES** Various types of flooring – mosaic, tile, stone etc. – aesthetic effects created by flooring material and pattern - graphic patterns and their visual effects – construction details – skirting, molding, embossing etc. Floor finishes and floor coverings.			
OUTCOME To make students understand the various aspects such as spatial quality, design vocabulary, design principles, and design process related to the design of interiors.To develop an understanding of point, line & planar elements in defining an interior space				
REFERENCE BOOKS Francis. D. K. Ching, Interior design Illustrated, Van Nostrand Reinhold The making of interiors – An introduction- Allen Tate- Harper & Row Publishers, New York, 1987. Interior Design & Decoration, Fourth Edition, Sherrill Whiton- Prentice Hall, 1974. Interior lighting for Designers, Third edition – Gary Gordon & Jamco L. Nuckolls – John Wiley & Sons, New York, 1995.				

SUB CODE: 97912	Interior Materials and finishes	T	Credits:3	Hours:3
OBJECTIVES	To understand the construction of basic elements of an interior space such as walls & partitions, floors & roofs.			
UNIT I	**INTRODUCTION TO MATERIALS** Wood - Soft and hardwood, plywood, laminated wood and particle boards – properties, manufacture & uses. Synthetic Materials – Different types of Glass, their properties, manufacturing processes and uses. Plastics – injection molding & other manufacturing methods, etc. Fabrics – textile, Jute, leather etc. different types and their uses			
UNIT II	**FLOORS** Floor coverings- - softwood, hardwood- resilient flooring - linoleum, asphalt tile, vinyl, rubber, cork tiles - terrazzo, marble & granite – properties, uses & laying. Floor tiles- ceramic glazed, mosaic and cement tiles- properties, uses and laying, details for physically handicapped.			
UNIT III	**FALSE CEILING** Construction of various kinds of false ceiling such as thermacol, plaster of paris, gypboard, metal sheets, glass and wood Construction of domes, vaults, & other special ceilings			
UNIT IV	**WALL PANELING** Panelling – Using wooden planks, laminated plywood, cork sheets, fibre glass wool & fabric for sound insulation and wall panelling for thermal insulation.			
UNIT V	**FINISHES** Paints- enamels, distempers, plastic emulsions, cement based paints- properties, uses and applications- painting on different surfaces – defects in painting , clear coatings & strains- varnishes, lacquer, shellac, wax polish & strains- properties, uses and applications. Special purpose paints- bituminous, luminous, fire retardant and resisting paints- properties, uses and applications			

OUTCOME

To familiarize the students of Interior Design on material and construction methodology

REFERENCE BOOKS

1. S.C Rangwala – engineering materials – Charotar publishing, Anand 1982
2. W.B Mckay, building construction, VOL 1-4 , Longmans, u.k 1981
3. Francis D. K. Ching - Building Construction Illustrated, VNR, 1975, 1993.
4. Dr. B.C Punmia , building construction , Laxmi publications Pvt. Ltd., New Delhi, 1993.

SUB CODE: 97913	Building Services and Integration	T	Credits:3	Hours:3
OBJECTIVES	To understand the need and applications of air conditioning, acoustics, electrification and mechanical services in buildings with exposure to various systems, methods and fixtures.			
UNIT I	**PLUMBING AND SANITATION** Introduction of water supply& drainage in domestic and Multi-storeyed buildings. Piping - systems, one and two pipe systems, materials, Standard fixtures and sanitary fittings, Caulking compounds, traps, joints, , Sinks, bath tub, water closets, flushing cisterns, urinals, wash basins, bidet, shower panel etc.; Domestic hot water systems solar water heating systems;Flushing cisterns, manholes, septic tanks in relation to buildings. Intercepting Chambers, inspection Chambers and their location and ventilation of sewers. Size of drain pipes and materials.			
UNIT II	**AIRCONDITIONING AND FIRE SAFETY** Window type and packaged air conditioners – Chilled water plants – Fan coiled systems – Water piping – Cooling load - Air-conditioning systems for different types of buildings – Duct lay out etc. Mechanism of fire spread in building and prevention – Fire safety standards – Concepts in fire protection- Fire fighting installation and requirements - Heat sensitive detectors – Smoke detectors – Automatic water sprinkler system- Foam systems.			
UNIT III	**ACOUSTICS AND SOUND INSULATION** Room acoustics- resonance, reverberation, echo, reverberation time, simple exercise using Sabine's formula. Acoustical requirements of different types of building. - Sound absorption, absorption co-efficient and their measurements, Absorbing materials used and their choices, exercises involving reverberation time and absorption co-efficient. Sound insulation materials			
UNIT IV	**ELECTRICAL SYSTEMS** Single/Three phase supply – Protective devices in electrical installation — ISI Specifications - Types of wires, Wiring systems and their choice – Planning electrical wiring for building interiors – Main and distribution boards- Typical Electrical layout for interiors.			
UNIT V	**LIGHTING AND COLOUR IN INTERIORS** Introduction to day lighting - Artificial lighting - Effect of colour in lighting-luminaires & fixtures			
OUTCOME Toexposethestudentstothebasicprinciplesofairconditioning,acoustics,electrificationandmechanical services.				
REFERENCE BOOKS M.H.Lulla, Air conditioning V.K.Jain, Fire Safety in Buildings. Peter templeton & Saunders – Detailing for architectural acoustics –Architectural press, 1994 R.G.Hopkinson andJ.D.Kay, the Lighting of Buildings, Faber and Faber, London,1964 Concepts of Lighting, Lighting Design in Architecture – Torquil Barker				

SUB CODE:97921	Drawing and Graphics Studio	P	Credits:2	Hours:4

OBJECTIVES	To help students to learn & understand the techniques of various methods of drawing. To make them understand the use of colours & their effects in drawing.

Drawing and graphics studio focusses on improving 2d and 3d visualization skills. The studio work comprises of free hand sketching; geometrical orthographic projections of lines, planes and solids; introduction to isometric and perspective drawings; measured drawing and improving the 3d modelling skills using block models.

OUTCOME

To make students improve their sketching skills & drawing abilities.

REFERENCE BOOKS

Drawing – A creative Process, Francis D.K. Ching, John Wiley Sons, New York

How to paint & draw, Bodo W.Jaxtheimer, Thames & Hudson, London

Geometrical drawing for art students, 2nd revised edition - I.H.Morris, Orient Longman, Calcutta, 1995.

Building drawing, 3rd edition – M G Shah, C M Kale, Tata Mcgraw – Hill publishing, New Delhi.

SUB CODE:97922	Computer Aided Design Studio	P	Credits:2	Hours:4

OBJECTIVES	To make a student understand the basic tools of ACAD .i.e. formatting (limits, units, etc) drawing tools or drafting, modification of the same. A knowledge on understanding of the advanced tools such as layers, line type, etc, 2D drafting and 3D modelling of building drawings.

The studio starts with general introduction of the computer system and familiarizing the students with the operation principles, graphic system, use of printers, plotters, scanners etc. The studio works comprises of computer aided 2D drafting using the drawing tools, editing, dimensioning, setting up of drawings etc ; introduction of3D modelling technique using surfaces, planes, solids and editing them; 3D rendering with the setting to create a photorealistic image of the model created using material mapping, environment setting and lighting etc.

OUTCOME

To introduce the technology of computer system, operation principles, use of other related hardware, with a thrust on 2D drafting and 3D modelling as a necessity for designers. Coverage will be on drawing objects, fittings, setting, size and dimensioning, with a thrust on advanced 2D drafting techniques involving complex building drawings.

REFERENCES:

Sham Tickoo, Advance Technique in AutoCAD 2010
Auto CAD reference manual – Autodesk UNC, 1998.
AutoCAD architectural users guide – Autodesk Inc. 1998.

SUB CODE:97923	Interior Space Design Studio	P	Credits:2	Hours:4

OBJECTIVES

- To develop understanding of the scale, function and options existing when designing small-scale spaces in residences such as toilets, kitchens, living, bedrooms etc.
- Development of ideas with regard to false ceiling, wall paneling, flooring, floor coverings, curtains, windows, doors and other elements of residential interiors.

The interior space design studio focusses on the design process of individual spaces of residential and commercial spaces i.e; Kitchen, Toilet, Bedroom, Living room, etc. The studio work encompasses research and collecting data regarding the spaces; developing suitable conceptual design ideas based on sizes and standards, studying the activity, users, types; refining it to a complete design solution considering the needed interior services like water supply, sanitation, HVAC, lighting, Electricity and Color schemes; making working drawings and creating visualization (3D models).
At the end of the studio, all works will be submitted and presented to the jury. Evaluation is processed throughout the progress of work and during the external viva voce.

OUTCOME

To introduce the basics of designing for Residential interiors and to develop skills required for the same.To introduce the basics of designing for Retail interiors and to develop skills required for the same.

REFERENCE BOOKS

Designs for 20th century Interiors – Fiona Leolie, VH Publications, London, 2000.
Interior Design; The New Freedom, Barbaralec Diamonstein, Rizzoli International Publications, New York, 1982.
Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1994.

SUB CODE:97924	Practical Internship	I	Credits:3	Hours:9

OBJECTIVES

- To facilitate an understanding of the evolution of an interior project from design to execution.
- To enable an orientation that would include the process of development of conceptual ideas, presentation skills, involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure, site supervision during execution and coordination with the agencies involved in the construction process.

The internship program would be done in offices empanelled by the Institution. The progress of practical training shall be assessed internally through submission of log books supported by visual documents maintained by students every month along with the progress report from the employer/s of trainees.The students would be evaluated based on the following criteria:

1. Adherence to time schedule, Discipline.
2. Ability to carry out the instructions on preparation of schematic drawings, presentation drawings, working drawings.
3. Ability to work as part of a team in an office.
4. Ability to participate in client meetings and discussions.
5. Involvement in supervision at project site.

At the end of the Internship program a portfolio of work done during the period of internship along with certification from the offices are to be submitted for evaluation by a viva voce examination. This will evaluate the understanding of the students about the drawings, detailing, materials, construction method and service integration and the knowledge gained during client meetings, consultant meetings and site visits.

OUTCOME

To expose students to the daily realities of an interior design practice through an intensive internship program.

Diploma Programme

Passing minimum

- A candidate shall be declared to have passed in each course if he/she secures not less than 40% marks in the End Semester Examinations and 40% marks in the Internal Assessment and not less than 40% in the aggregate, taking Continuous assessment and End Semester Examinations marks together.
- The passing minimum for CIA shall be 40% out of 25 marks (i.e.10 marks) in Theory/ Practical Examinations.
- The passing minimum for University Examinations shall be 40% out of 75 marks (i.e. 30 marks) for Theory /Practical papers.
- The candidates not obtain 40% in the Internal Assessment are permitted to improve their Internal Assessment marks in the subsequent semesters (2 chances will be given) by writing the CIA tests or by submitting assignments.
- Candidates, who have secured the pass marks in the End-Semester Examination and in the CIA but failed to secure the aggregate minimum pass mark (E.S.E + C I.A), are permitted to improve their Internal Assessment mark in the following semester and/or in University examinations.
- A candidate shall be declared to have passed in the Dissertation/Project report/Internship report if he/she gets not less than 40% marks in the Internal Assessment and End Semester Examinations and not less than 40% in the aggregate, taking Continuous assessment and End Semester Examinations marks together.
- A candidate who gets less than 40% in the Dissertation / Internship/ Project Report must resubmit the thesis. Such candidates need to take again the Viva-Voce on the resubmitted report/thesis.