

**BASIC DESIGN****Course Code : 352302**

**Programme Name/s** : Architecture Assistantship/ Architecture/ Interior Design & Decoration/ Interior Design/  
**Programme Code** : AA/ AT/ IX/ IZ  
**Semester** : Second  
**Course Title** : BASIC DESIGN  
**Course Code** : 352302

**I. RATIONALE**

The subject is the primary core of the total course and forms the spine of the Architectural /interior design profession that intends to equip the students with thorough knowledge about basic concepts of Architectural/interior design. The students shall also learn planning processes and develop intellectual and creative skills required for Architectural/Interior Design.

**II. INDUSTRY / EMPLOYER EXPECTED OUTCOME**

Students will be able to understand the basics of Design (Elements, Principles, Ergonomics & Colour Theory) and apply this knowledge in Architectural / interior design to achieve different usable spaces.

**III. COURSE LEVEL LEARNING OUTCOMES (COS)**

Students will be able to achieve & demonstrate the following COs on completion of course based learning

- CO1 - Use of the principles of Elements of Architecture /interior design as a basic design vocabulary.
- CO2 - Use of the Principles of Architecture /interior design as a basic design vocabulary.
- CO3 - Use of the principles of the Colour Theory and its components to achieve various compositions.
- CO4 - Apply the principles of Ergonomics to achieve design efficiency in Architecture / Interior Design.
- CO5 - Apply all of the above learnings, to achieve simple individual activity-based rooms for Architecture / Interior Design.

**IV. TEACHING-LEARNING & ASSESSMENT SCHEME**

Course Code	Course Title	Abbr	Course Category/s	Learning Scheme						Credits	Assessment Scheme										
				Actual Contact Hrs./Week			SLH	NLH	Paper Duration		Theory			Based on LL & TL		Based on SL		Total Marks			
				CL	TL	LL					Total	Practical		SLA							
							FA-TH	SA-TH				FA-PR	SA-PR	Max	Min	Max	Min				
352302	BASIC DESIGN	BAD	DSC	2	-	6	2	10	5	-	-	-	-	-	50	20	50@	20	50	20	150

**BASIC DESIGN****Course Code : 352302****Total IKS Hrs for Sem. : 6 Hrs**

Abbreviations: CL- ClassRoom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, \*# On Line Examination , @\$ Internal Online Examination

Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.
3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.\* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. \* Self learning hours shall not be reflected in the Time Table.
7. \* Self learning includes micro project / assignment / other activities.

**V. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT**

Sr.No	Theory Learning Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
1	<p>TLO 1.1 Explain - Elements of Architectural/Interior Design.</p> <p>TLO 1.2 Explain - Point, Line, Plane, volume.</p> <p>TLO 1.3 Explain- Texture, Colour, Value and Space.</p> <p>TLO 1.4 Application and Interpretation of Elements Of Architectural/ Interior design.</p> <p>TLO 1.5 Explain - Elements of Architectural Design with the context of IKS &amp; its importance.</p>	<p><b>Unit - I Elements of Architectural/Interior design</b></p> <p>1.1 Explain the term - Elements of design.</p> <p>1.2 Study of different Elements of design.</p> <p>1.3 Application of Elements of Design.</p> <p>1.4 Study of Elements of Design in the Indian context (IKS).</p>	<p>Chalk-Board Presentations</p> <p>IKS examples</p>
2	<p>TLO 2.1 Explain - Principles of Architectural/Interior Design.</p> <p>TLO 2.2 Explain - Balance, Contrast, Emphasis, Movement.</p> <p>TLO 2.3 Explain - Rhythm, Hierarchy, White Space, Unity.</p> <p>TLO 2.4 Application and Interpretation of Principles Of Architectural/ Interior design.</p> <p>TLO 2.5 Study the Principles of Architectural / Interior Design in context to IKS.</p>	<p><b>Unit - II Principles Of Architectural / Interior Design</b></p> <p>2.1 Explain the term - Principles of design.</p> <p>2.2 Study of different Principles of design.</p> <p>2.3 Application of Principles of Design.</p> <p>2.4 Study of Principles of Design - IKS context.</p>	<p>Chalk-Board Presentations</p> <p>IKS examples</p>

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Sr.No	Theory Learning Outcomes (TLO's) aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
3	TLO 3.1 Explain Colour theory. TLO 3.2 Explain Colour Wheel. TLO 3.3 Explain Warm & Cool colours. TLO 3.4 Explain Colour scheme.	<b>Unit - III Colour Theory</b> 3.1 Study different components of colour theory. 3.2 Understand the colour wheel with Primary, Secondary and Tertiary Colour Schemes. 3.3 Apply different colour schemes in the field of Architectural / Interior Design.	Demonstration Presentations Hands-on
4	TLO 4.1 Explain Ergonomic and its need in Architectural / Interior Design. TLO 4.2 Understand different human activities to related spaces. TLO 4.3 Study & Apply Ergonomic for living room spaces. TLO 4.4 Study & Apply Ergonomic for Bed room space. TLO 4.5 Study & Apply Ergonomic for Kitchen spaces. TLO 4.6 Study & Apply Ergonomic for Toilets. TLO 4.7 Apply Ergonomic in Interior Design. TLO 4.8 Apply Ergonomic in different Public Spaces. TLO 4.9 Study & Application of Ergonomic in the Indian context and usage type (IKS context).	<b>Unit - IV Ergonomics</b> 4.1 Study human body and its movements. 4.2 Importance, Need and application of Ergonomic in the field of Architecture / Interior Design. 4.3 Study different activities and application of Ergonomic for various residential spaces. 4.4 Study Ergonomic applicable for different commercial and Institutional spaces. 4.5 Study of IKS examples of Ergonomic (IKS system).	Demonstration Presentations Case Studies (with & without IKS content)
5	TLO 5.1 Explain design of space. TLO 5.2 Design living room space. TLO 5.3 Design kitchen/dining space. TLO 5.4 Design Bed Room space TLO 5.5 Design Toilet. TLO 5.6 Design Special space.	<b>Unit - V Design of Single Use Space</b> 5.1 Explain the Design Process for different spaces. 5.2 Living room design basics with furniture. 5.3 Kitchen/Dining room design basics with furniture. 5.4 Bed room design basics with furniture. 5.5 Toilet design basics with Interior.	Case Study Presentations Site/Industry Visit

**VI. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL / TUTORIAL EXPERIENCES.**

Practical / Tutorial / Laboratory Learning Outcome (LLO)	Sr No	Laboratory Experiment / Practical Titles / Tutorial Titles	Number of hrs.	Relevant COs
LLO 1.1 Draw different types of patterns	1	*Draw different types of patterns of point and line using various techniques (free hand, compositions etc).	2	CO1
LLO 2.1 Prepare sketches	2	*Prepare sketches incorporating volumetric and planar elements - minimum 2 each.	2	CO1
LLO 3.1 Prepare different compositions	3	*Prepare different compositions of texture & colour with the use of different media.	2	CO1

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<b>Practical / Tutorial / Laboratory Learning Outcome (LLO)</b>	<b>Sr No</b>	<b>Laboratory Experiment / Practical Titles / Tutorial Titles</b>	<b>Number of hrs.</b>	<b>Relevant COs</b>
LLO 4.1 Prepare sketches	4	Prepare sketches incorporating & defining the value (as meant in colour) & space by use of different media.	2	CO1
LLO 5.1 Create a single composition	5	*Create a single composition by incorporating all the elements of design using any media.	2	CO1
LLO 6.1 Prepare sketches & models	6	*Prepare Sketches / models to demonstrate the balance & contrast using different media (Balance 1 No & Contrast 1 No minimum).	2	CO2
LLO 7.1 Prepare sketches & models	7	Prepare Sketches / models to demonstrate the Emphasis & Movement using different media (Emphasis 1 No & Movement 1 No minimum).	2	CO2
LLO 8.1 Prepare sketches & models	8	Prepare Sketches / models to demonstrate the Rhythm & Hierarchy using different media (Rhythm 1 No & Hierarchy 1 No minimum).	2	CO2
LLO 9.1 Prepare sketches & models	9	Prepare Sketches / models to demonstrate the White Space & Unity using different media (White Space 1 No & Unity 1 No minimum).	2	CO2
LLO 10.1 Prepare a composition	10	*Prepare a composition defining the Principles of Design using combination of any 4 principles of choice (Composition in form of sheet or model - 1 No minimum).	2	CO2
LLO 11.1 Prepare a colour wheel sheet	11	*Prepare a Colour Wheel to understand the theory of colours using different media.	5	CO3
LLO 12.1 Create compositions	12	Create a composition using colour scheme incorporating the concept of elements & principles of design (Sheet work Min 2).	5	CO3
LLO 13.1 Draw the Vitruvian man	13	Draw the Anthropometric figure of Human body ( Vitruvius man), male, female, child and related body movements	6	CO4
LLO 14.1 draw the anthropometric sketches	14	*Draw the anthropometric sketches / drawings explaining the different human activities in living room.	6	CO4
LLO 15.1 draw the anthropometric sketches	15	Draw the anthropometric sketches / drawings explaining the different human activities in kitchen / dining	6	CO4
LLO 16.1 Draw the anthropometric sketches	16	*Draw the anthropometric sketches / drawings explaining the different human activities in bedroom / toilet.	6	CO4
LLO 17.1 Measurement & Drawing plan	17	*Measure and draw plan, section, elevation of a single use structure (small scale space like watchman cabin, milk booth, store room etc).	6	CO5
LLO 18.1 Measurement & Drawing plan	18	*Measure and draw plan, section, elevation of existing living room with furniture.	12	CO5
LLO 19.1 Measurement & Drawing plan	19	Measure and draw plan, section, elevation of existing kitchen / dining with furniture.	12	CO5

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Practical / Tutorial / Laboratory Learning Outcome (LLO)	Sr No	Laboratory Experiment / Practical Titles / Tutorial Titles	Number of hrs.	Relevant COs
LLO 20.1 Measurement & Drawing plan	20	*Measure and draw plan, section, elevation of existing bedroom and toilet.	12	CO5
<b>Note : Out of above suggestive LLOs -</b> <ul style="list-style-type: none"> <li>*1 Marked Practicals (LLOs) Are mandatory.</li> <li>Minimum 80% of above list of lab experiment are to be performed.</li> <li>Judicial mix of LLOs are to be performed to achieve desired outcomes.</li> </ul>				

### VII. SUGGESTED MICRO PROJECT / ASSIGNMENT/ ACTIVITIES FOR SPECIFIC LEARNING / SKILLS DEVELOPMENT (SELF LEARNING)

#### Assignment

- Collect & Study different architectural plans of residential units ( plans ) & prepare a report
- Study & Prepare power point presentation on elements of Design
- Study & Prepare power point presentation on Principles of Design

### VIII. LABORATORY EQUIPMENT / INSTRUMENTS / TOOLS / SOFTWARE REQUIRED

Sr.No	Equipment Name with Broad Specifications	Relevant LLO Number
1	Furniture - Drafting tables and stools, LCD Projector and Screen. Drafting tools & Computers. Paper, Pencil, T square, Setsquare and Scale. Colours, Brush, Cutters, Scissors, Glue.	All

### IX. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table) : NOT APPLICABLE

### X. ASSESSMENT METHODOLOGIES/TOOLS

#### Formative assessment (Assessment for Learning)

- Rubrics for COs, Assignments & Presentations, Self learning

#### Summative Assessment (Assessment of Learning)

- End term Viva Voce, Lab performance

### XI. SUGGESTED COS - POS MATRIX FORM

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Course Outcomes (COs)	Programme Outcomes (POs)							Programme Specific Outcomes* (PSOs)		
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2	PSO-3
CO1	3	1	1	1	1	1	3			
CO2	3	1	1	1	1	1	3			
CO3	3	2	2	1	1	1	3			
CO4	3	2	3	1	2	1	3			
CO5	2	3	3	1	2	1	3			

Legends :- High:03, Medium:02,Low:01, No Mapping: -  
\*PSOs are to be formulated at institute level

**XII. SUGGESTED LEARNING MATERIALS / BOOKS**

Sr.No	Author	Title	Publisher with ISBN Number
1	Anthony Antoniadis	Poetics in Architecture : Theory of Design	Wiley
2	Donald Watson, Michael J Crosbie, John HancockCallendar	Time Saver Standards for Architectural Design Data	McGraw Hill
3	Joseph De Chaira, Julius Panero, Martin Zainik	Time saver Standards for Interior Design and Space Planning	McGraw Hill
4	Francis D K Ching	Architecture : Form Space and Order	Wiley
5	Francis D K Ching	Interior Spcaes	Wiley
6	Yatin Pandya	Elements of Space Making	Vastu Shilpa Foundation
7	Pradnya Chauhan	Learning Basic Design	Abhivikas Niketan 978-81-955393-0-7

**XIII. LEARNING WEBSITES & PORTALS**

Sr.No	Link / Portal	Description
1	<a href="https://www.youtube.com/watch?v=B4Zv500TEPA">https://www.youtube.com/watch?v=B4Zv500TEPA</a>	principles and elements of design
2	<a href="https://www.youtube.com/watch?v=51rnmBLtKvs">https://www.youtube.com/watch?v=51rnmBLtKvs</a>	principles and elements of Interior design
3	<a href="https://www.youtube.com/watch?v=dU_zyDYZiew">https://www.youtube.com/watch?v=dU_zyDYZiew</a>	Anthropometry and ergonomic
4	<a href="https://www.youtube.com/watch?v=YeI6Wqn4I78">https://www.youtube.com/watch?v=YeI6Wqn4I78</a>	Colour Theory Basics

MSBTE Approval Dt. 29/11/2023

Semester - 2, K Scheme