MAHATMA GANDHI UNIVERSITY

Kottayam, Kerala

Undergraduate Programmes (HONOURS)
2025 Admission Onwards

SYLLABUS			
SIGNATURE COURSE			
Name of the College	Yeldo Mar Baselios College, Kothamangalam		
Faculty/ Discipline	Interior Architecture and Artistry		
Programme	BA (Hons) Interior Architecture and Artistry		
Course Coordinator	Jasmin.M.A		
Contributors			
Course Name	Interior Design Ergonomics		
Type of Course	DSE		
Specialization title	Interior Design		
Course Code	MG3DSEIAAA00		
Course Level	200		
Course Summary	This course focuses on understanding the relationship between human needs, comfort, and interior spaces through anthropometrics, circulation, module grids, and layout organization. The subject helps students develop functional and user-friendly interior environments by applying ergonomic principles and efficient space planning techniques. It also introduces systematic design approaches for residential and commercial interiors		
Semester	3	**Credits**	4
Course Details	**Learning Approach** / **Tutorial** / **Practical/Lab-P** / **Total Hours** Credits / 3 / 1 / 75		
Pre-requisites, if any			

Course Outcomes (CO)

Number of COs		**5**	
CO No.	**Expected Course Outcome**	**Learning Domains ***	**PO No**
1	Understand the basic principles of ergonomics and anthropometrics in interior design and space planning.	U	PO1, PO2
2	Analyze human dimensions, movement patterns, and circulation requirements for designing functional interior spaces.	An	PO2, PO3
3	Apply module grids and spatial organization techniques in residential and commercial interior layouts.	A	PO3, PO5
4	Develop efficient furniture layouts and interior planning solutions based on user comfort, accessibility, and usability.	C	PO3, PO4, PO5
5	Create interior space layouts integrating ergonomics, circulation standards, and design aesthetics.	C	PO3, PO5, PO10

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)*

CO-PO Articulation Matrix

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	2	-	-	-	-	-	-	-	-
CO 2	-	2	3	-	-	-	-	-	-	-
CO 3	-	-	1	-	2	-	-	-	-	-
CO 4	-	-	1	2	2	-	-	-	-	-
CO 5	-	-	3	-	3	-	-	-	-	2

'0' is No Correlation, '1' is Slight Correlation (Low level), '2' is Moderate Correlation (Medium level) and '3' is Substantial Correlation (High level).

Course Content

Content for Classroom transaction (Units)

Module	Units	Course Description	Hrs	CO No.
1	Introduction to Ergonomics and Anthropometrics			
	1.1	Definition and importance of ergonomics in interior design and Human body measurements and proportions	4	["1"]
	1.2	Static and dynamic anthropometrics and Ergonomic principles in furniture and interior spaces	4	["1"]
	1.3	Relationship between human comfort and design	5	["1"]
2	Human Activities and Space Requirements			
	2.1	Human posture and movement and Activity-based space planning	5	["2"]
	2.2	Reach ranges and clearance requirements and unctional dimensions for residential spaces	6	["2"]
	2.3	Universal design and accessibility basics	6	["2"]
3	Circulation and Spatial Planning			
	3.1	Principles of circulation in interior spaces	6	["3"]
	3.2	Horizontal and vertical circulation	7	["3"]
	3.3	Public, private, and service zones, Space adjacency and movement patterns	7	["4", "5"]
	3.4	Planning efficient circulation layouts	5	["4", "5"]
4	Grids and Layout Organization			
	4.1	Introduction to modular planning	5	["3"]
	4.2	Grid systems in interior design and Symmetry, balance, and spatial organization	5	["3"]
	4.3	Furniture arrangement techniques	5	["4", "5"]
	4.4	Layout planning for residential and commercial interiors	5	["4", "5"]

Teaching and Learning Approach	**Classroom Procedure (Mode of transaction)** Preparation of anthropometric studies and Space planning exercises, Furniture layout and zoning techniques and Design of ergonomic interior spaces, Case studies and model/layout presentation

Assessment Types	**MODE OF ASSESSMENT** Mode of Assessment: Practical **A. Continuous Comprehensive Assessment (CCA)** **• Practical – 30 Marks** Presentation and Activity submissions **B. End Semester Evaluation (ESE)** **• Practical – 70 Marks** Assessment Methods – Viva-Voce and Class Room Mini Project Evaluation Duration of Examination – N/A

References

- Panero, J., & Zelnik, M. (1979). Human dimension and interior space: A source book of design reference standards. Whitney Library of Design. Pheasant, S., & Haslegrave, C. M. (2006). Bodyspace: Anthropometry, ergonomics and the design of work (3rd ed.). CRC Press. Nussbaumer, L. L. (2018). Human factors in the built environment: Designing for life and well-being (2nd ed.). Fairchild Books. Neufert, E., Neufert, P., & Baiche, B. (2012). Architects' data (4th ed.). Wiley-Blackwell.

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Kottayam, Kerala

Undergraduate Programmes (HONOURS)
2025 Admission Onwards

SYLLABUS			
SIGNATURE COURSE			
Name of the College	Yeldo Mar Baselios College, Kothamangalam		
Faculty/ Discipline	Interior Architecture and Artistry		
Programme	BA (Hons) Interior Architecture and Artistry		
Course Coordinator	Jasmin.M.A		
Contributors			
Course Name	Spatial Psychology and AI		
Type of Course	DSE		
Specialization title	Interior Design		
Course Code	MG4DSEIAAA00		
Course Level	200		
Course Summary	This subject explores the integration of Artificial Intelligence (AI), architectural psychology, and ergonomics in interior design. It focuses on how AI technologies can analyze human behavior, comfort, emotions, movement patterns, and spatial interactions to create intelligent, adaptive, and user-centered interior environments.		
Semester	4	**Credits**	4

Course Details

Learning Approach	Tutorial	Practical/Lab-P	Total Hours
Credits	3	1	75

Pre-requisites, if any	

Course Outcomes (CO)

Number of COs		**5**	
CO No.	**Expected Course Outcome**	**Learning Domains ***	**PO No**
1	Understand the relationship between architectural psychology, ergonomics, and human-centered interior environments.	U	PO1, PO2
2	Identify AI technologies used in analyzing user behavior and spatial interaction.	An	PO2, PO5
3	Apply ergonomic and psychological principles in intelligent interior space planning.	A	PO3, PO5
4	Develop adaptive and responsive interior environments using AI-assisted design approaches.	S	PO3, PO4, PO5
5	Create innovative interior design solutions integrating AI, human comfort, wellness, and functionality	C	PO5, PO7, PO10

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)*

CO-PO Articulation Matrix

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	2	-	-	-	-	-	-	-	-
CO 2	-	2	-	-	2	-	-	-	-	-
CO 3	-	-	3	-	3	-	-	-	-	-
CO 4	-	-	2	2	3	-	-	-	-	-
CO 5	-	-	-	-	2	-	2	-	-	3

'0' is No Correlation, '1' is Slight Correlation (Low level), '2' is Moderate Correlation (Medium level) and '3' is Substantial Correlation (High level).

Course Content

Content for Classroom transaction (Units)

Module	Units	Course Description	Hrs	CO No.
1	Introduction to Architectural Psychology and Ergonomics			
	1.1	Human behaviour in interior spaces and Psychological response to environments	5	["1"]
	1.2	Anthropometrics and ergonomic principles	5	["1"]
	1.3	Human comfort and usability and User-cantered design concepts.	5	["1"]
2	Fundamentals of AI in Interior Design			
	2.1	Introduction to Artificial Intelligence	6	["2"]
	2.2	AI tools used in architecture and interiors and Smart sensors and data collection	7	["2"]
	2.3	Machine learning basics in spatial analysis and AI-assisted space planning	6	["2"]
3	Human Behaviour Analysis Using AI			
	3.1	Movement tracking and circulation analysis , Space usage patterns	5	["3"]
	3.2	Emotional and behavioral mapping AI-based user preference studies	5	["3"]
	3.3	AI-based user preference studies	5	["4", "5"]
	3.4	Predictive spatial behaviour	6	["2", "4"]
4	Intelligent and Adaptive Interior Environments			
	4.1	Smart furniture systems	5	["3"]
	4.2	Responsive lighting and thermal comfort	5	["3"]
	4.3	AI-driven workspace ergonomics and Wellness-focused smart interiors	5	["4", "5"]
	4.4	Adaptive environments for different users	5	["4", "5"]

Teaching and Learning Approach	**Classroom Procedure (Mode of transaction)** Case studies of AI-integrated interiors and Ergonomic and psychological evaluation Smart interior space planning project, AI-assisted layout development Final presentation and design documentation

Assessment Types	**MODE OF ASSESSMENT** Mode of Assessment: Practical **A. Continuous Comprehensive Assessment (CCA)** **• Practical – 30 Marks** Assignments, Presentations, Activity Submission **B. End Semester Evaluation (ESE)** **• Practical – 70 Marks** Assessment Methods – Viva-Voce and Class Room Mini Project evaluation Duration of Examination – N/A

References

- Panero, J., & Zelnik, M. (1979). Human dimension and interior space: A source book of design reference standards. Whitney Library of Design. Nussbaumer, L. L. (2018). Human factors in the built environment: Designing for life and well-being (2nd ed.). Fairchild Books. Ching, F. D. K. (2015). Architecture: Form, space, and order (4th ed.). John Wiley & Sons.

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Undergraduate Programmes (HONOURS)
2025 Admission Onwards

SYLLABUS			
SIGNATURE COURSE			
Name of the College	Yeldo Mar Baselios College, Kothamangalam		
Faculty/ Discipline	Interior Architecture and Artistry		
Programme	BA (Hons) Interior Architecture and Artistry		
Course Coordinator	Jasmin.M.A		
Contributors			
Course Name	Digital Design Studio		
Type of Course	DSE		
Specialization title	Interior Design		
Course Code	MG5DSEIAAA00		
Course Level	300		
Course Summary	The Digital Design Studio course introduces students to the application of digital technologies in interior design and architectural visualization. It focuses on developing the skills required to create accurate 2D drawings, 3D models, rendered perspectives, and presentation layouts using industry-standard design software. Students learn digital drafting, space planning, material and lighting visualization, furniture modeling, and the preparation of professional design presentations.		
Semester	5	**Credits**	4

Course Details

Learning Approach	Tutorial	Practical/Lab-P	Total Hours
Credits	3	1	75

Pre-requisites, if any	

Course Outcomes (CO)

Number of COs		**5**	
CO No.	**Expected Course Outcome**	**Learning Domains ***	**PO No**
1	Understand the interface, tools, and basic functionalities of the 3D modeling software.	U	PO1, PO2
2	Develop accurate 2D and 3D interior models using drawing and modification tools.	An	PO2, PO3
3	Apply materials, textures, lighting, and components to create realistic interior visualizations.	A	PO3, PO5
4	Create furniture models and interior spaces using organized layers, groups, and scenes.	S	PO3, PO4, PO5
5	Produce presentation-ready interior models, walkthroughs, and rendered views for design communication.	C	PO3, PO5, PO10

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)*

CO-PO Articulation Matrix

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	2	-	-	-	-	-	-	-	-
CO 2	-	2	2	-	-	-	-	-	-	-
CO 3	-	-	2	-	1	-	-	-	-	-
CO 4	-	-	3	2	2	-	-	-	-	-
CO 5	-	-	3	-	3	-	-	-	-	2

'0' is No Correlation, '1' is Slight Correlation (Low level), '2' is Moderate Correlation (Medium level) and '3' is Substantial Correlation (High level).

Course Content

Content for Classroom transaction (Units)

Module	Units	Course Description	Hrs	CO No.
1	Introduction to SketchUp			
	1.1	Introduction to 3D modelling, software interface and workspace	5	["1"]
	1.2	Navigation tools and view controls ,Drawing tools and basic commands	5	["1"]
	1.3	File setup and project organization	5	["1"]
2	2D Drafting and 3D Modeling			
	2.1	Line, rectangle, circle, and polygon tools ,Push/Pull and Offset tools	5	["2"]
	2.2	Move, rotate, scale, and copy commands ,Creating walls, floors, and ceilings	7	["2"]
	2.3	Basic residential interior modeling	6	["2"]
3	Interior Components and Furniture Modeling			
	3.1	Groups and components , Modeling furniture and interior elements	6	["3"]
	3.2	Importing components from 3D Warehouse	6	["3"]
	3.3	Layer/tag management	5	["4", "5"]
	3.4	Organizing complex models	4	["5"]
4	Intelligent and Adaptive Interior Environments			
	4.1	Applying colors and textures , Material editing and mapping	5	["3"]
	4.2	Shadow settings and scene creation	5	["3"]
	4.3	Camera views and walkthroughs	6	["4", "5"]
	4.4	Introduction to rendering plugins	5	["3", "4"]

Teaching and Learning Approach	**Classroom Procedure (Mode of transaction)** Preparing presentation layouts ,Section cuts and exploded views Exporting drawings and images ,Interior project modeling exercise Portfolio and presentation preparation

Assessment Types	**MODE OF ASSESSMENT** Mode of Assessment: Practical **A. Continuous Comprehensive Assessment (CCA)** **• Practical – 30 Marks** Assignments, Mini projects, Modelling , Class Work submissions **B. End Semester Evaluation (ESE)** **• Practical – 70 Marks** Assessment Methods – Practical Examination Duration of Examination – 5.00 Hrs

References

- SketchUp for Interior Design Cline, L. (2022). SketchUp for interior design: 3D visualizing, designing, and space planning (2nd ed.). Wiley. Interior Design Visual Presentation Mitton, M. (2023). Interior design visual presentation: A guide to graphics, models, and presentation techniques (6th ed.). Wiley. Design Drawing Ching, F. D. K., & Juroszek, S. P. (2020). Design drawing (3rd ed.). Wiley.

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SYLLABUS			
SIGNATURE COURSE			
Name of the College	Yeldo Mar Baselios College, Kothamangalam		
Faculty/ Discipline	Interior Architecture and Artistry		
Programme	BA (Hons) Interior Architecture and Artistry		
Course Coordinator	Jasmin.M.A		
Contributors			
Course Name	BUILDING INFORMATION MODELING (BIM)		
Type of Course	DSE		
Specialization title	Interior Design		
Course Code	MG6DSEIAAA00		
Course Level	300		
Course Summary	This is a digital design and project management process used in architecture, engineering, and interior design to create intelligent 3D models of buildings and spaces. The course helps students understand collaborative design workflows, visualization, material and cost estimation, construction documentation, and sustainable building practices using BIM software tools		
Semester	6	**Credits**	4

Course Details

Learning Approach	Tutorial	Practical/Lab-P	Total Hours
Credits	3	1	75

Pre-requisites, if any	

Course Outcomes (CO)

Number of COs		**5**	
CO No.	**Expected Course Outcome**	**Learning Domains ***	**PO No**
1	Understand the fundamentals, concepts, and applications of Building Information Modeling (BIM) in architecture and interior design.	U	PO1, PO2
2	Develop basic BIM models using digital modeling tools for architectural and interior spaces.	A	PO2, PO3, PO5
3	Apply BIM workflows for space planning, material coordination, and project documentation.	A	PO3, PO5
4	Create integrated 3D interior and architectural models with components, schedules, and visualization features.	C	PO3, PO4, PO5
5	Produce BIM-based design presentations and collaborative project outputs for professional practice.	A	PO5, PO9, PO10

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)*

CO-PO Articulation Matrix

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	1	-	-	-	-	-	-	-	-
CO 2	-	2	2	-	2	-	-	-	-	-
CO 3	-	-	3	-	3	-	-	-	-	-
CO 4	-	-	3	2	2	-	-	-	-	-
CO 5	-	-	-	-	3	-	-	-	2	2

'0' is No Correlation, '1' is Slight Correlation (Low level), '2' is Moderate Correlation (Medium level) and '3' is Substantial Correlation (High level).

Course Content

Content for Classroom transaction (Units)

Module	Units	Course Description	Hrs	CO No.
1	Introduction to BIM			
	1.1	Definition and evolution of BIM, BIM concepts and workflows	5	["1"]
	1.2	Difference between CAD and BIM	5	["1"]
	1.3	BIM applications in architecture and interiors , Introduction to BIM software platforms	5	["1"]
2	BIM Interface and Basic Modeling			
	2.1	BIM software interface and navigation , Creating walls, floors, roofs, and ceilings	6	["2"]
	2.2	Basic interior space modeling , Levels, grids, and reference planes	5	["2"]
	2.3	Parametric components and families	5	["2"]
3	Interior Components and Documentation			
	3.1	Doors, windows, and furniture placement , Material application and finishes.	6	["3"]
	3.2	Room schedules and quantity take-offs	6	["3"]
	3.3	Annotation and dimensioning	6	["4", "5"]
	3.4	Sheet preparation and documentation	5	["4", "5"]
4	Visualization and Coordination			
	4.1	3D views and walkthroughs	6	["3"]
	4.2	Rendering and presentation techniques	5	["3"]
	4.3	Lighting and visualization basics	5	["4", "5"]
	4.4	Coordination between building systems Clash detection and model management	5	["3", "4"]

Teaching and Learning Approach	**Classroom Procedure (Mode of transaction)** Residential or commercial interior project ,Space planning using BIM , Integrated model development Presentation and project submission

Assessment Types	**MODE OF ASSESSMENT** Mode of Assessment: Practical **A. Continuous Comprehensive Assessment (CCA)** **• Practical – 30 Marks** Assignments, Mini projects, Modelling , Class Work submissions **B. End Semester Evaluation (ESE)** **• Practical – 70 Marks** Assessment Methods – Practical Examination Duration of Examination – 5.00 Hrs

References

- Eastman, C., Teicholz, P., Sacks, R., & Liston, K. (2018). BIM handbook: A guide to building information modeling for owners, designers, engineers, contractors, and facility managers (3rd ed.). John Wiley & Sons. Crotty, R. (2012). The impact of building information modelling: Transforming construction. Spon Press. Read, P., & Donley, M. (2023). Commercial design using Autodesk Revit 2024. SDC Publications.

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Annexure

Course Name: Interior Design Ergonomics
Course Code: MG3DSEIAAA00

MODE OF ASSESSMENT

CO-based Evaluation Parameters

A. Continuous Comprehensive Assessment (CCA) - 30 Marks

Assessment Types	• Assignments, Presentations, Activity Submission • Assessments must be clearly mapped to the Course Outcomes (COs) specified in the syllabus. • The Teacher-Specific Module (TSM) is a compulsory part of the CCA. It should be designed, conducted, and evaluated by the teacher and must also be mapped to relevant Cos.

B. End Semester Evaluation (ESE) - 70 Marks

	Mapped COs	ESE Assessment criteria & Description	Marks
Assessment Types	CO1	Understand the basic principles of ergonomics and anthropometrics in interior design and space planning.	10
	CO2	Analyze human dimensions, movement patterns, and circulation requirements for designing functional interior spaces.	10
	CO3	Apply technical knowledge of materials and specifications to develop detailed design solutions, integrating structural, environmental, and user-based requirements.	15
	CO4	Assess the behavior and performance of materials under varying environmental conditions, including thermal, acoustic, moisture, and fire-related factors.	15
	CO5	Formulate innovative and sustainable material strategies by comparing alternatives, solving complex design problems, and preparing professional material specifications and documentation.	20
		Total	70

Course Name: Spatial Psychology and AI
Course Code: MG4DSEIAAA00

MODE OF ASSESSMENT

CO-based Evaluation Parameters

A. Continuous Comprehensive Assessment (CCA) - 30 Marks

Assessment Types	• Assignments, Presentations, Activity Submission • Assessments must be clearly mapped to the Course Outcomes (COs) specified in the syllabus. • The Teacher-Specific Module (TSM) is a compulsory part of the CCA. It should be designed, conducted, and evaluated by the teacher and must also be mapped to relevant Cos.

B. End Semester Evaluation (ESE) - 70 Marks

	Mapped COs	**ESE Assessment criteria & Description**	**Marks**
Assessment Types	CO1	Understand the relationship between architectural psychology, ergonomics, and human-centered interior environments.	12
	CO2	Identify AI technologies used in analyzing user behavior and spatial interaction.	13
	CO3	Apply ergonomic and psychological principles in intelligent interior space planning.	18
	CO4	Develop adaptive and responsive interior environments using AI-assisted design approaches.	15
	CO5	Create innovative interior design solutions integrating AI, human comfort, wellness, and functionality	12
		Total	70

Course Name: Digital Design Studio
Course Code: MG5DSEIAAA00

MODE OF ASSESSMENT

CO-based Evaluation Parameters

A. Continuous Comprehensive Assessment (CCA) - 30 Marks

Assessment Types	• Assignments, Mini projects, Modelling , Class Work submissions' • Assessments must be clearly mapped to the Course Outcomes (COs) specified in the syllabus. • The Teacher-Specific Module (TSM) is a compulsory part of the CCA. It should be designed, conducted, and evaluated by the teacher and must also be mapped to relevant Cos.

B. End Semester Evaluation (ESE) - 70 Marks

	Mapped COs	**ESE Assessment criteria & Description**	**Marks**
Assessment Types	CO1	Understand the interface, tools, and basic functionalities of the 3D modeling software.	10
	CO2	Develop accurate 2D and 3D interior models using drawing and modification tools. .	10
	CO3	Apply materials, textures, lighting, and components to create realistic interior visualizations	15
	CO4	Create furniture models and interior spaces using organized layers, groups, and scenes	15
	CO5	Produce presentation-ready interior models, walkthroughs, and rendered views for design communication.	20
		Total	70

Course Name: Building Information Modeling (BIM)
Course Code: MG6DSEIAAA00

MODE OF ASSESSMENT

CO-based Evaluation Parameters

A. Continuous Comprehensive Assessment (CCA) - 30 Marks

Assessment Types	• Assignments, Mini projects, Modelling , Class Work submissions' • Assessments must be clearly mapped to the Course Outcomes (COs) specified in the syllabus. • The Teacher-Specific Module (TSM) is a compulsory part of the CCA. It should be designed, conducted, and evaluated by the teacher and must also be mapped to relevant Cos.

B. End Semester Evaluation (ESE) - 70 Marks

	Mapped COs	**ESE Assessment criteria & Description**	**Marks**
Assessment Types	CO1	Understand the fundamentals, concepts, and applications of Building Information Modeling (BIM) in architecture and interior design.	12
	CO2	Develop basic BIM models using digital modeling tools for architectural and interior spaces.	13
	CO3	Apply BIM workflows for space planning, material coordination, and project documentation.	12
	CO4	Create integrated 3D interior and architectural models with components, schedules, and visualization features.	13
	CO5	Produce BIM-based design presentations and collaborative project outputs for professional practice.	20
		Total	70