



IIT ROORKEE



NPTEL ONLINE
CERTIFICATION COURSE

INTERIOR DESIGN

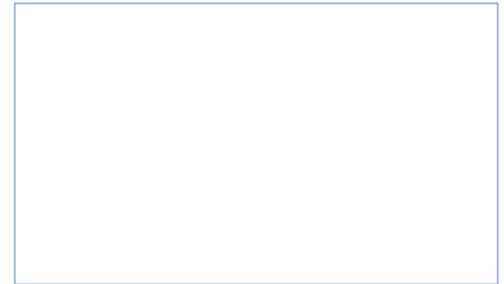
Lecture 01

Interior Design: Definition; Understanding; History; Scope

SMRITI SARASWAT
ARCHITECTURE & PLANNING

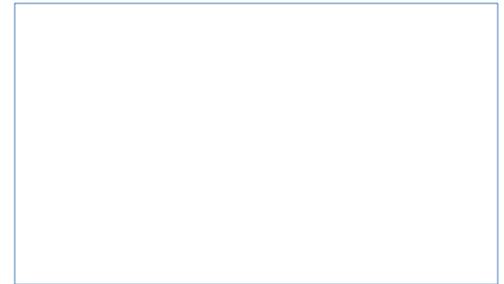


Interior Design: Definition; Understanding; History; Scope

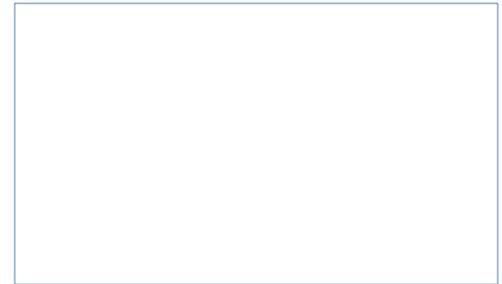


Contents

- Interior Design: Definition and Understanding
- Interior Design: Importance and Scope
- Interior Design: History
- Indian Pioneers of Design
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- References



What is Interior Design?



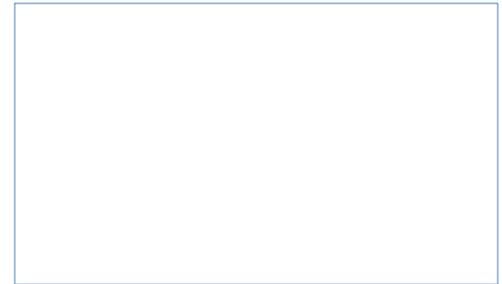
“Interior design is defined as the professional and comprehensive practice of creating an interior environment that addresses, protects, and responds to human need(s).

It is the art, science, and business planning of a creative, technical, sustainable, and functional interior solution that corresponds to the architecture of a space, while incorporating process and strategy, a mandate for well-being, safety, and health, with informed decisions about style and aesthetics.”

Interior designers evaluate space, understand its use, and establish which design elements to manipulate to meet the client’s requirements.

Source:

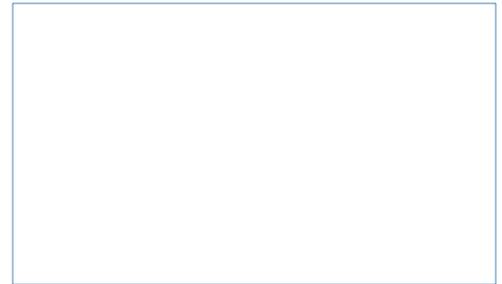
[https://iida.org/about/what-is-interior-design#:~:text=Interior%20design%20is%20defined%20as,to%20human%20need\(s\)](https://iida.org/about/what-is-interior-design#:~:text=Interior%20design%20is%20defined%20as,to%20human%20need(s))



- “Interior design is the **art and science** of enhancing the interior of a building to **achieve a healthier and more aesthetically pleasing** environment for the people using the space. An interior designer is someone who **plans, researches, coordinates, and manages** such enhancement projects.”
- Interior design is all **about how people experience spaces**. It is a project defining how a space functions, looks, and appeals to the senses. **Functionally useful, aesthetically pleasing, and efficiency** make a successful design. It should fit the needs, cultures and lifestyle of those that inhabit it.

Source:

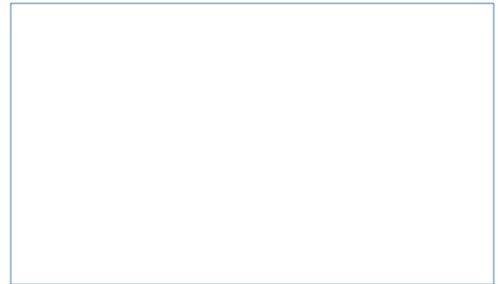
<https://www.vnsgu.ac.in/departments/interiordesign/documents/11-What-Is-Interior-Design.pdf>



INTERIOR DESIGN
is a combination of
ART + SCIENCE + TECHNOLOGY
that manipulates
space, form, texture, color, and light
to
enhance the quality of human life.

Source:

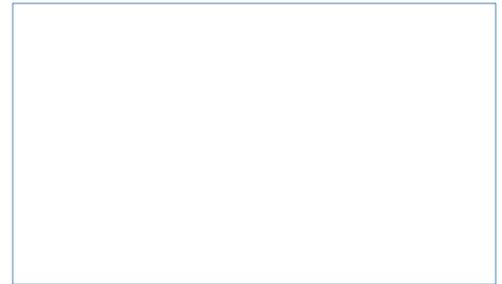
<https://www.youtube.com/watch?v=RYBo7y4-YeY>



- Interior designers gain knowledge of:
 - Materials, colour, lighting, culture and history, climatic conditions, sustainability, ergonomics, and other **elements used in the designing** of a space
 - Software applications for 2D and 3D **computer-aided design (CAD)** and **building information modelling (BIM)**
 - Structural requirements, health and safety issues, and **building codes**

Source:

<https://www.nysid.edu/academics/what-is-interior-design>



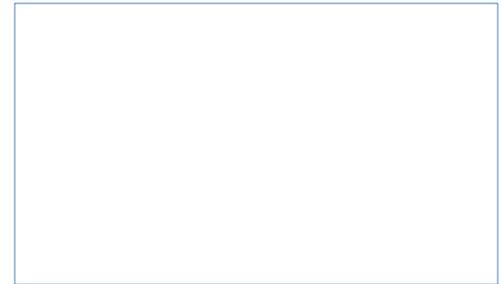
- Interior designers work with contractors, architects, engineers, craftspersons, furniture dealers, and business and home owners. Hence, a well-rounded education and skills are recommended to **work within many disciplines like architecture, graphic design, decorative arts, and textile, furniture, and lighting design.**
- Interior design is a multifaceted profession that **includes conceptual development, space planning, site inspections, programming, research, communicating with the stakeholders of a project, construction management, and execution of the design.**

Source:

<https://www.nysid.edu/academics/what-is-interior-design>



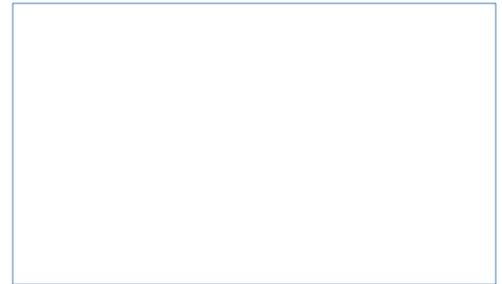
Interior Design: Importance and Scope



The swelling need for aesthetics in the modern world is what amplifies the importance of interior design. One can elevate their existence, their lifestyle and their perception of the world with the help of interior design. It is a fundamental human desire to seek and identify beauty in the surrounding. Functionality and beauty work together to optimize space and to provide the ideal surrounding for a modern person to live in.

Source:

<https://www.iid.edu.in/the-circle/the-importance-of-interior-designing/>

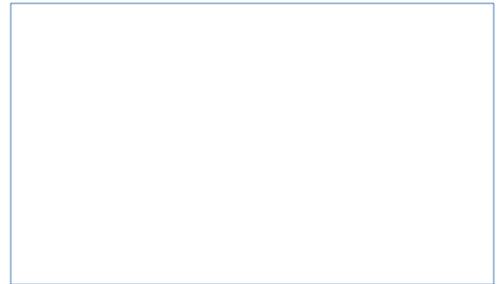


Importance of interior design:

- The interior of a space **reflects the purpose** of the space
- It helps **define the inhabitants personality** and gives character to the space.
- The aesthetics of a place **indicate how one should be in that place.**
- It **simulates the senses** and affects the psychology, behaviour and mood of the occupants.
- Its knowledge helps to achieve functionality, aesthetics, and efficiency in a space that has a **major role on how effectively the place is utilized** by people for the purpose it is designed for.

Source:

<https://www.iiad.edu.in/the-circle/the-importance-of-interior-designing/>

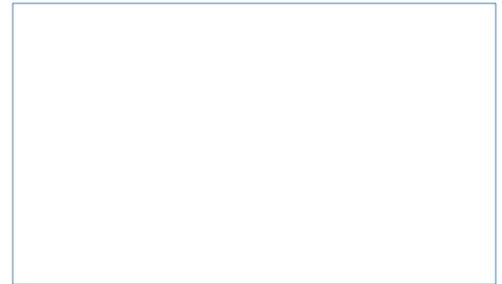


“Design is not what it just looks like and feels like. Design is how it works.”

- Steve Jobs

Source:

<https://www.iiad.edu.in/the-circle/the-importance-of-interior-designing/>



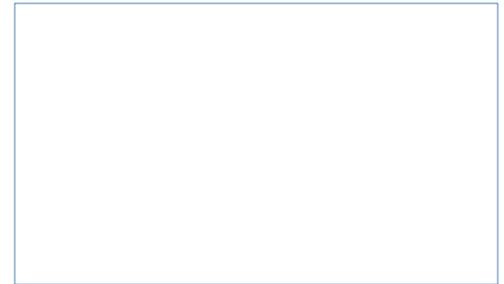
The scope of interior design is vast that ranges from the **practical dimensions to the conceptual and artistic dimensions**. The scope encompasses everything from retail spaces, work spaces, living spaces, public spaces, restorative spaces, and **transient spaces**. Below are a few famous **roles** for interior designers:

- **Interior designer and consultant**
- **Furniture designer**
- **Product designer**
- **Lighting designer**
- **Interior decorator**
- **Exhibition and Set designer**
- **Accessories and soft furnishings**
- **Colour expert**
- **Landscape expert**
- **Restoration and Renovation Specialist**
- **Model maker**
- **Educator**

The possibilities for interior design are virtually limitless, and one has to be disciplined enough to **identify their niche and pursue it**.



History of Interior Design



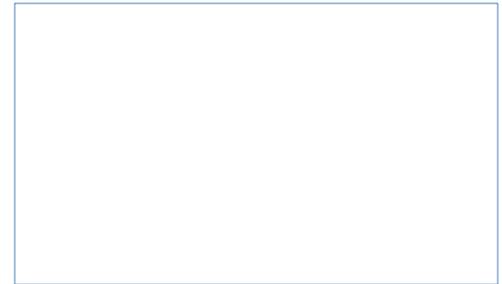
“Interior designers can trace their profession to many who preceded them, from the cave painters at Lascaux to the creators of the frescoed interiors at Pompeii, to the holistic architecture, interiors, and furnishings of Robert Adam and Thomas Jefferson in the eighteenth century, and to Frank Lloyd Wright in the twentieth.”

Although the desire to create a pleasant environment is as old as civilization itself, the field of interior design is relatively new, just about 100 years old. In these hundred years, what began as the art of decorating, embracing form and function, has evolved into today’s world of highly specialized areas of interior design requiring study and experience.

Source:

interior Design Handbook of Professional Practice, Pp.27

<https://www.idlny.org/history-of-interior-design>



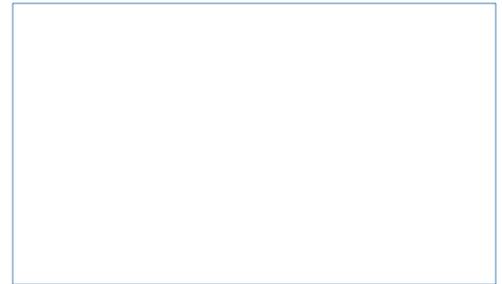
In the early twentieth century, the term “Interior Decorator” was first used in America for those who had a combination of good taste, common senses, and natural talent to interpret and address the design related issues, but they had no academic credentials.

Elsie de Wolfe became the first Interior Decorator to be given a design commission. In 1913, she published the first interior design book, “The House in Good Taste.”

Dorothy Draper was the first documented commercial Interior Decorator, establishing her design firm in 1923.

Source:

<https://www.idlny.org/history-of-interior-design>



The term “Interior Designer” was coined in the 1930s, by a magazine called “Interior Design and Decoration.” At this time design schools also recognized the work not only of designers but also of architects and engineers.

The largest professional organization in the field at the time, American Institute of Decorators (AID), was founded in 1931 and renamed as the American Institute of Interior Designers (AID) in 1936 over the years, as the profession of interior design grew.

Source:

<https://www.idlny.org/history-of-interior-design>

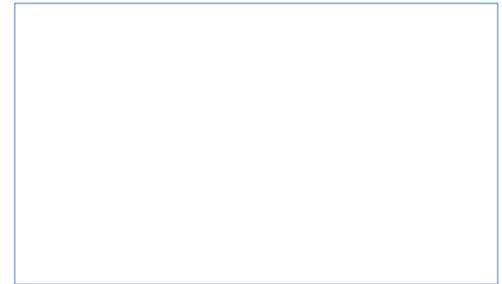


In the 1970, both The Foundation for Interior Design Educational Research (FIDER) and National Council for Interior Design Qualification (NCIDQ) were formed to establish, maintain and govern standards for the education and examination of interior design professionals.

In 1982, the first United States legislation supporting the fast-evolving profession of interior design was passed in Alabama.

Source:

<https://www.idlry.org/history-of-interior-design>

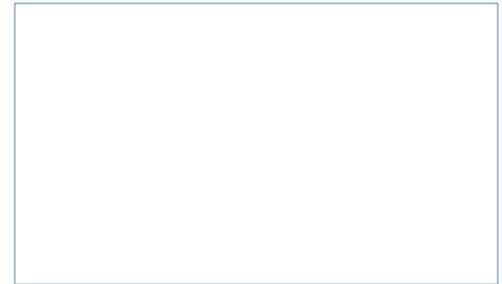


The history of interior design continues to rapidly evolve in this global world and demanding fine-focus of specialized areas of critical knowledge.

Interior design specialties are now widely accepted as part of the norm in built environments where the health, safety and welfare of the public are of foremost importance, including, but not limited to, universal design, gender neutral design, fire resistant design, sustainable design and more.

Source:

<https://www.idlny.org/history-of-interior-design>

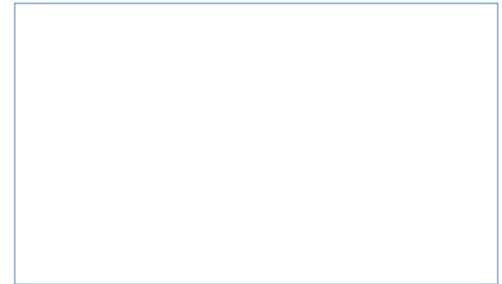


Since the middle of the 20th century, the term interior decorator has been rarely applied as more descriptive terms have come into use. The term interior design indicates a broader area of activity and at the same time suggests its status as a serious profession.

In some European countries, where the profession is well established, it is known as interior architecture. Individuals who are concerned with the many elements that shape man-made environments have come to refer to the total field as environmental design.

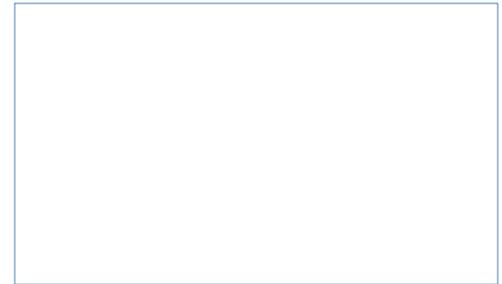
Source:

<https://www.idlny.org/history-of-interior-design>



Lascaux is a network of caves near the village of Montignac, in the department of Dordogne in southwestern France. Over 600 wall paintings cover the interior walls and ceilings of the cave. The paintings represent primarily large animals, typical local contemporary fauna that correspond with the fossil record of the Upper Paleolithic in the area.

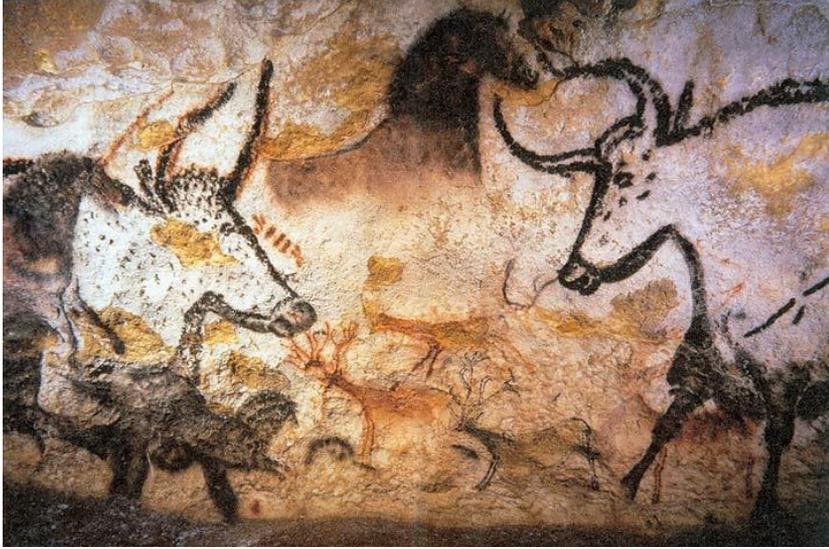
Painted and engraved images, as well as bas relief sculptures, textures and finishes have been integral parts of interior design projects.



Source:

<https://en.wikipedia.org/wiki/Lascaux>

<https://archaeology-travel.com/thematic-guides/cave-art-in-france/#:~:text=Painted%20and%20engraved%20images%2C%20as,will%20open%20in%20early%20June.>

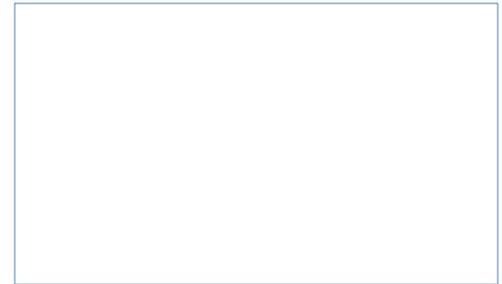


Lascaux

Source:

<https://learnenglishteens.britishcouncil.org/blogs/life-around-world/lascaux-caves>

<https://en.wikipedia.org/wiki/Lascaux>

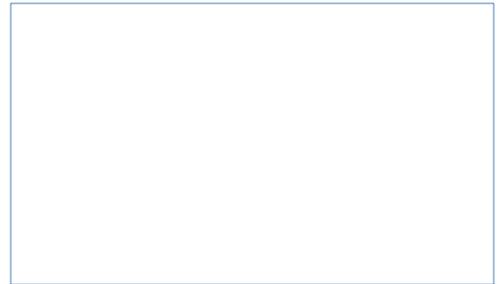


The cave contains nearly 6,000 figures, which can be grouped into three main categories: animals, human figures, and abstract signs. The paintings contain no images of the surrounding landscape or the vegetation of the time.

Most of the major images have been painted onto the walls using red, yellow, and black colours from a complex multiplicity of mineral pigments including iron compounds such as iron oxide (ochre), hematite, and goethite, as well as manganese-containing pigments. Charcoal may also have been used but seemingly to a sparing extent.

Source:

<https://en.wikipedia.org/wiki/Lascaux>

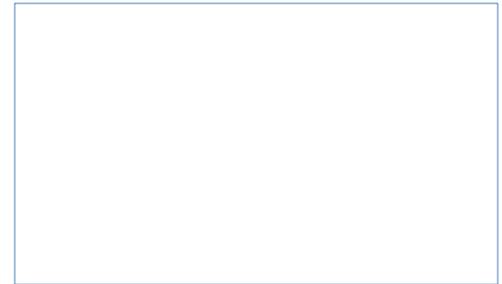


On some of the cave walls, the colour may have been applied as a suspension of pigment in either animal fat or calcium-rich cave groundwater or clay, making paint, that was swabbed or blotted on, rather than applied by brush.

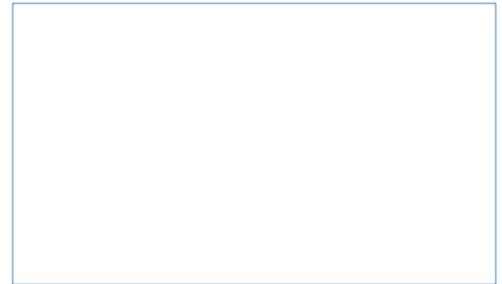
In other areas, the colour was applied by spraying the pigments by blowing the mixture through a tube. Where the rock surface is softer, some designs have been incised into the stone. Many images are too faint to discern, and others have deteriorated entirely.

Source:

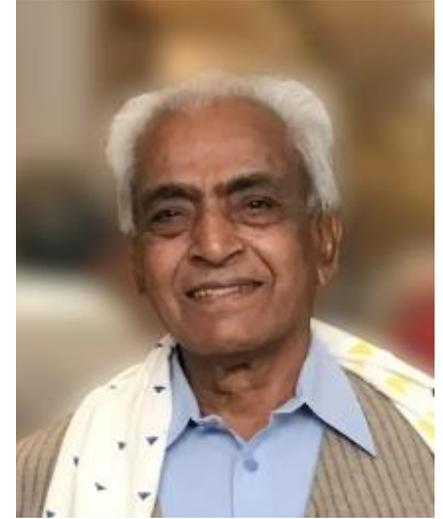
<https://en.wikipedia.org/wiki/Lascaux>



Few Indian Pioneers of Design



- Gajanan Upadhyay- The 'father of Indian furniture design', Ganjanan Upadhyay (1934-2021) brought the knowledge of the world's best, nurtured the field through his teachings and emphasised the spirit of humility and service in design.



Source:

<https://www.stirworld.com/think-opinions-the-life-of-gajanan-upadhyaya-the-man-who-shaped-indian-furniture-design>

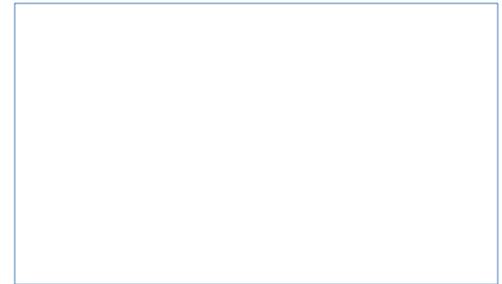


- **M.P. Ranjan** – M.P. Ranjan (1950 –2015) was an Indian designer and educator. He was a polymath, exploring various genres and methodologies in the field design innovation and education. He had written 3 books, namely – 1) **Handmade in India: A Geographic Encyclopedia of Indian Handicrafts**, 2) **Bamboo and Cane Crafts of Northeast India**, and 3) **Young Designers '92-'94: Graduates from the National Institute of Design**.



Source:

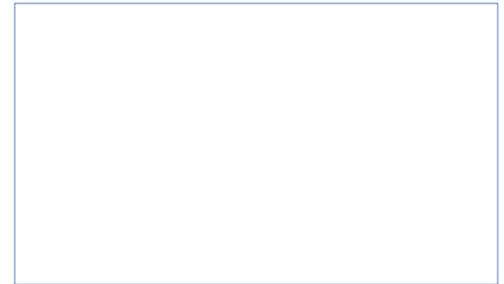
https://en.wikipedia.org/wiki/M._P._Ranjan



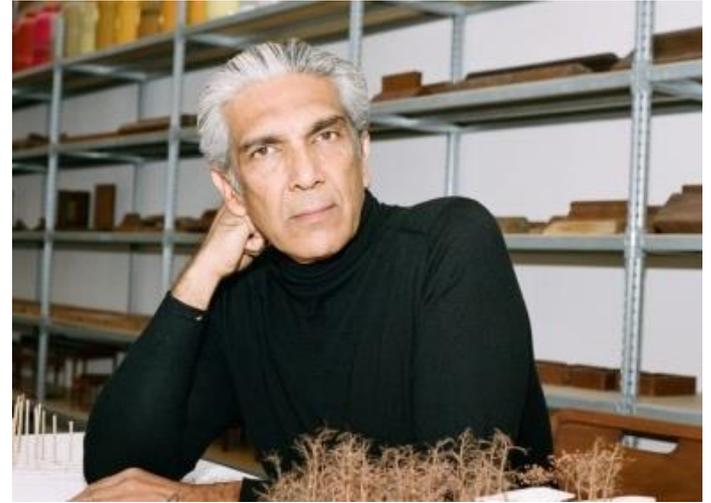
- Sameera Rathod- Samira Rathod (born 1963) is an Indian architect, furniture designer, writer, editor and teacher based in Mumbai. She is a Principal of Samira Rathod Design Associates. Her style is characterized by playful shapes and eclectic designs, and has a cohesive approach of interior and exterior.



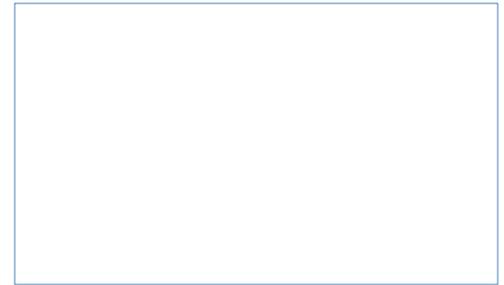
Source:
https://en.wikipedia.org/wiki/Samira_Rathod



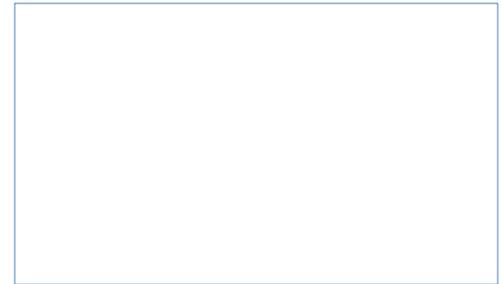
- **Bijoy Jain** -Bijoy Jain (born 1965) is an Indian architect and educator, and founded his own firm Studio Mumbai. He has won several accolades for his work, and has been well-known for his earth-bound material sensibilities, and an approach to interior architecture that bridges the gap between Modernism and vernacular construction.



Source:
https://en.wikipedia.org/wiki/Bijoy_Jain

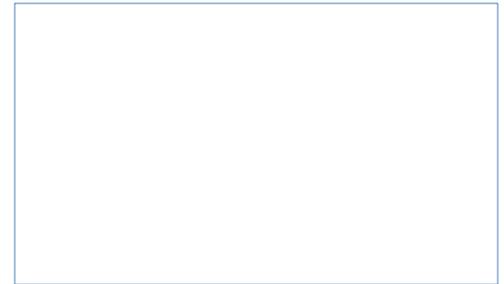


Stages of an Interior Design Project



“Good design is about process,
not product.”

- Jared Sinclair

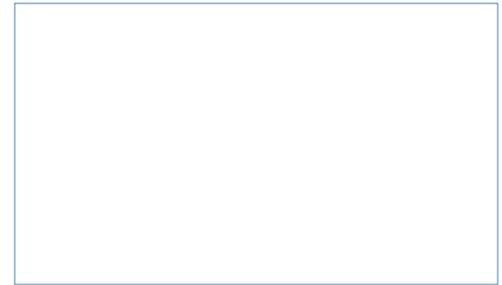
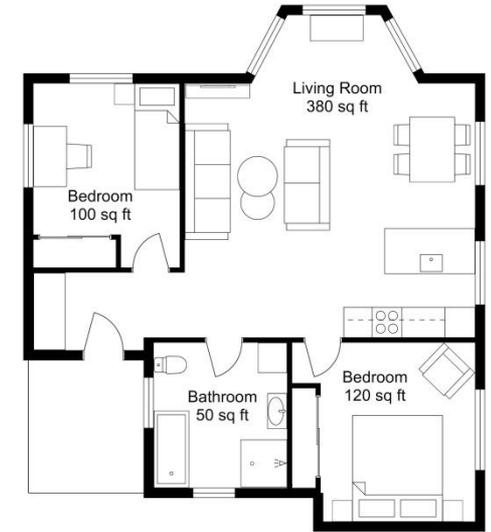


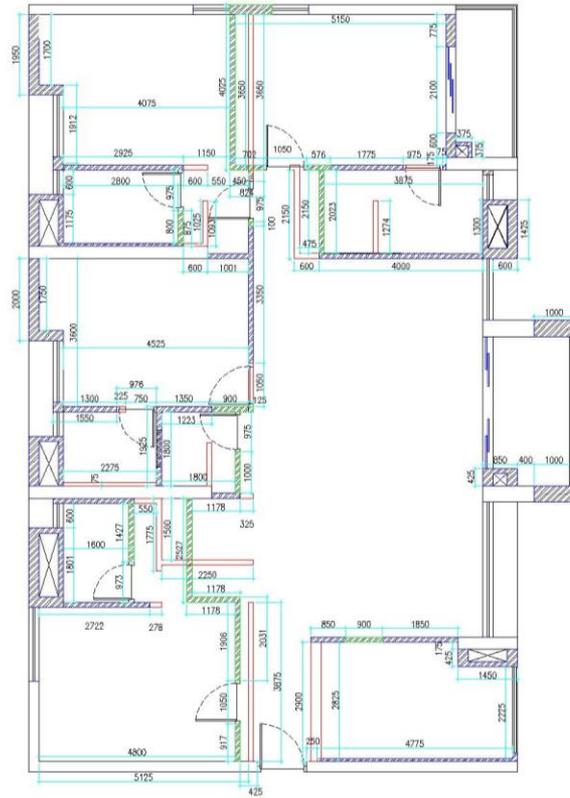
After site supervision and understanding client requirements and specifications, a general procedure of an interior design project is followed-

1. Furniture Layout - A basic furniture layout according to the concept of design, with standard dimensions is created so that the execution work on the site can start accordingly, while the other decoration and selection work can be done later, unless any specifications and exceptions.

Source:

<https://help.roomsketcher.com/hc/en-us/articles/360014144257-2D-Floor-Plans-With-or-Without-Furniture>

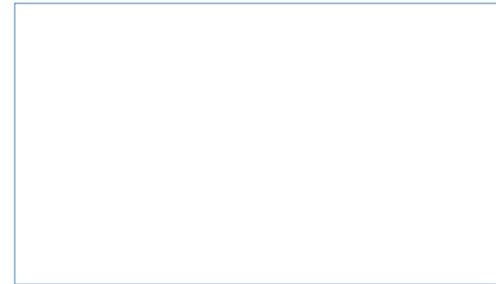


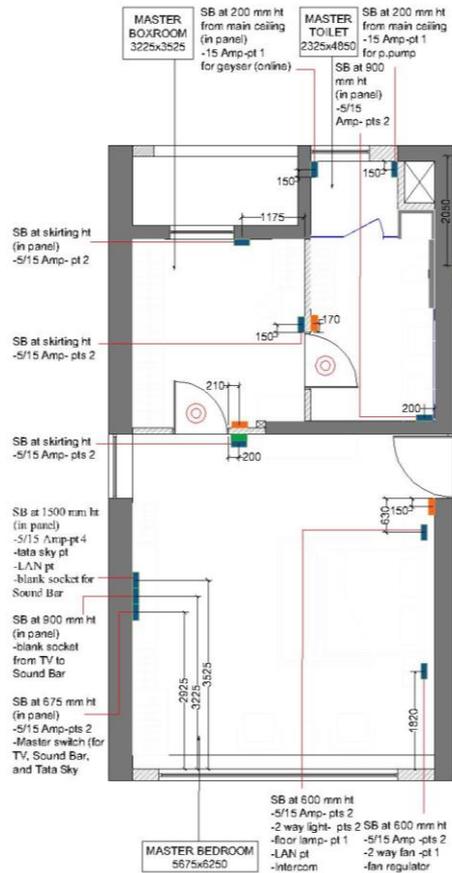


MAKE	
NOM.	DESCRIPTION
—	MAKE WALL
—	BREAK WALL
—	RETAIN WALL

Source:
Goel K., Rupande Shah and Associates

2. Civil Layout - This involves deciding on which existing walls to retain and break, and where new walls are to be constructed. This is made according to the confirmed furniture layout.



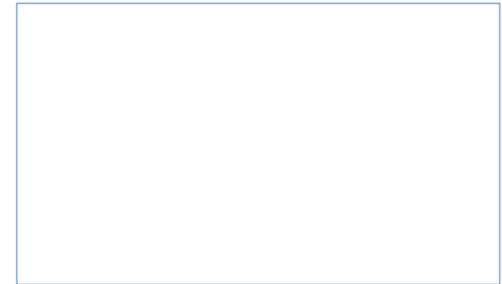


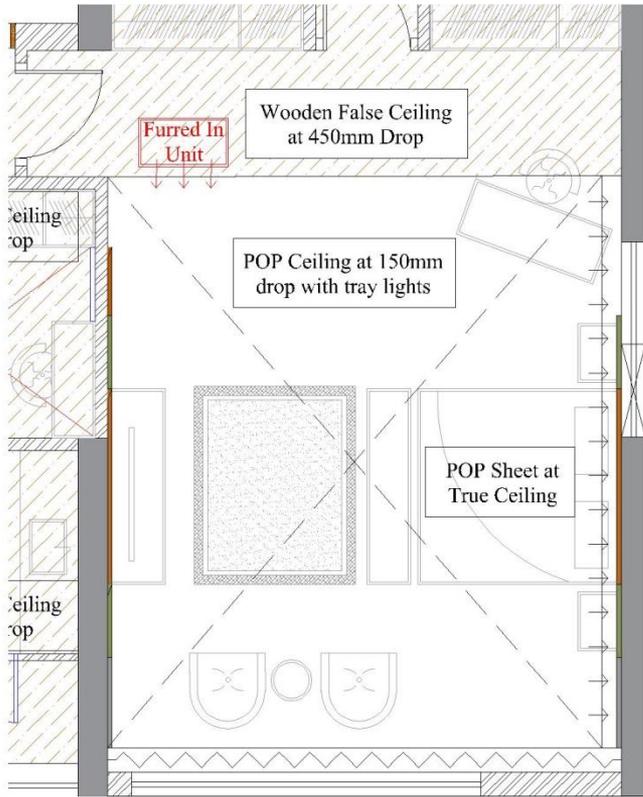
ELECTRICAL LEGEND:

DESC.	DETAILS
	MSB AT 3'-0" HT
	SB AS INDICATED
	AUTOMATION SB AT 4' HT
	FLOOR LIGHT
	DB POSITION
	SENSOR LIGHT

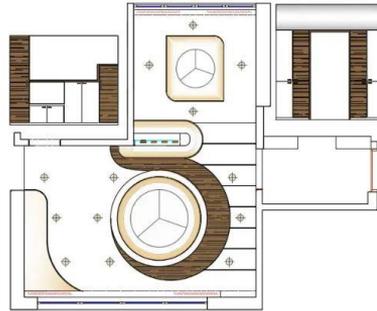
Source:
Goel, K., Unpublished Data, 2023

4. Electrical Layout - In general, this covers the wiring plan, and detailed switch board plan containing the number of switches and plug points with the amount of energy requirement along with its placement on the wall.





5. Ceiling Layout - This layout in general contains the details of the drop level in the false ceiling height, materials, position of the fixtures like air conditioner, and other specifications. Later a reflective ceiling plan of the entire ceiling design is prepared with position of all the fixtures including fan and light.

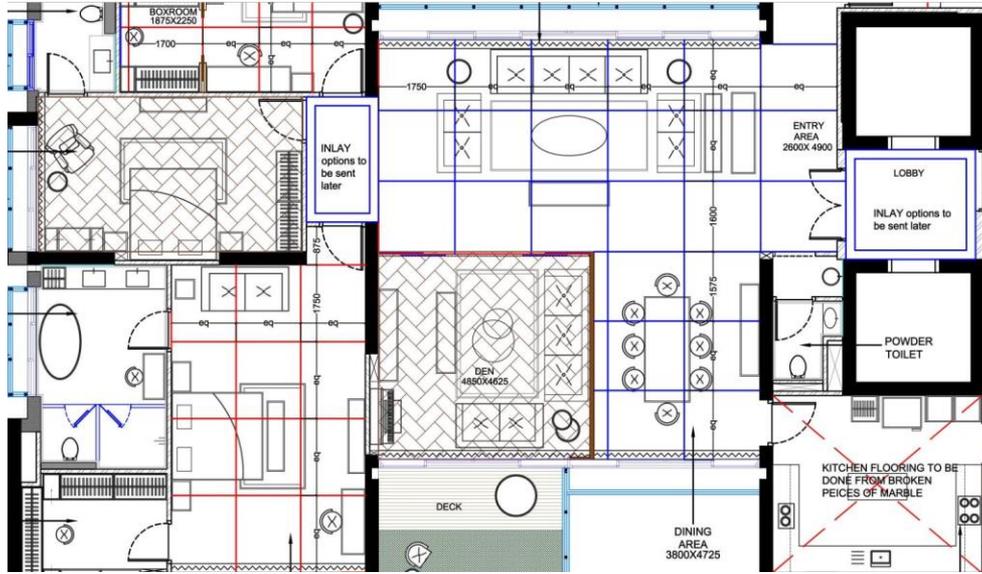


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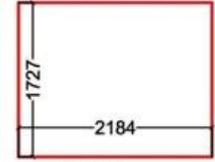
Goel, K., Unpublished Data, 2023

<https://cadbull.com/detail/147095/Ceiling-Design-AutoCAD-Architecture-Plan-Download>





MARBLE FOR
BEDROOMS &
KITCHEN



ACTUAL
MARBLE SIZE

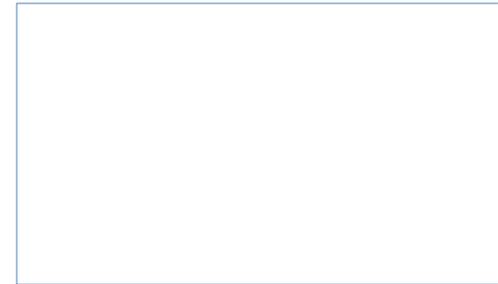


MARBLE FOR
LIVING & DINING



ACTUAL
MARBLE SIZE

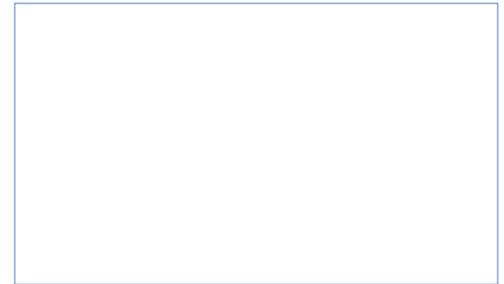
Source:
Goel, K., Unpublished Data, 2023



6. Flooring Layout - This includes deciding the flooring material, size and positioning layout of the flooring pieces, and calculating the quantity requirements along with skirting and wastage in mind.

7. Designing and Elevations - Usually after the above, mostly structural work is finalized and executed, the decorative work starts based on the design concept of the space.

It is about deciding the aesthetics of the space and manipulating various elements of design, namely, line, shape, form, space, texture, value, and colour. It involves wall designing, choosing furniture and fixtures, upholstery materials, surface finishes, decorative items, and more, and deciding the entire visual appeal and feel of the space.



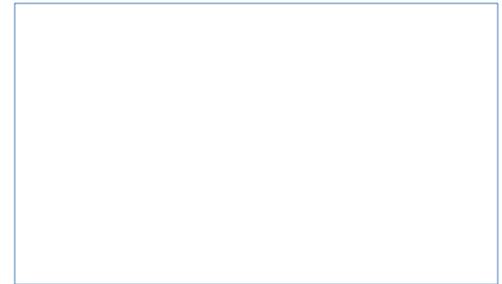
CALIFORNIA CASUAL LIVING ROOM

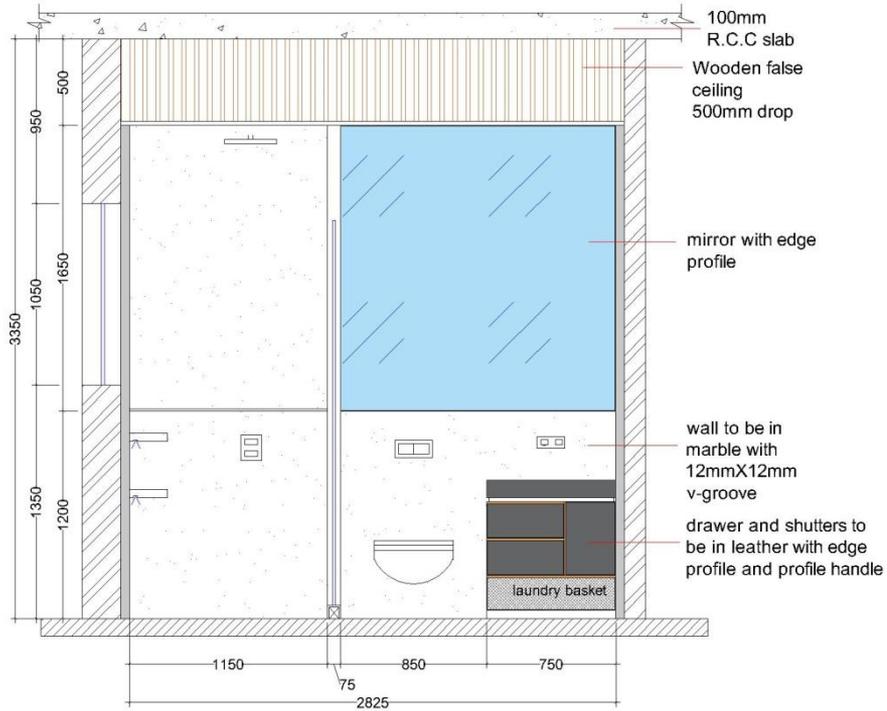


Source:

<https://in.pinterest.com/pin/581738476868236993/>

Design Concept

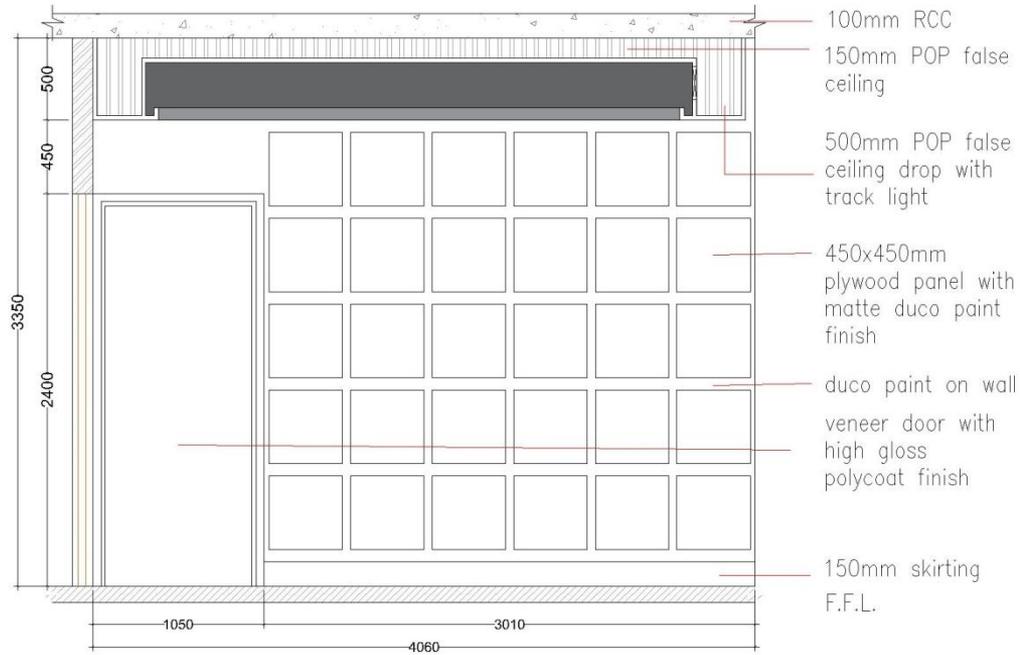




Sectional Elevation of a Washroom Wall

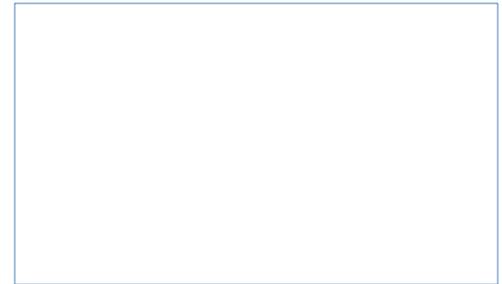
Source:
Goel, K., Unpublished Data, 2023





Sectional Elevation of a Room Wall

Source:
Goel, K., *Unpublished Data*, 2023



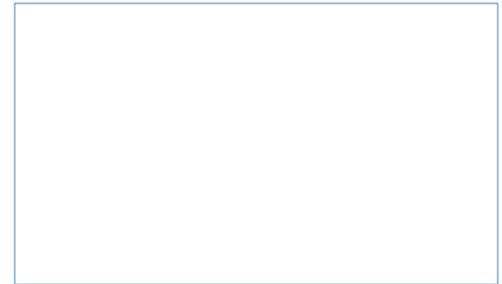
‘Everything is designed.
Few things are designed well.’

– Brian Reed

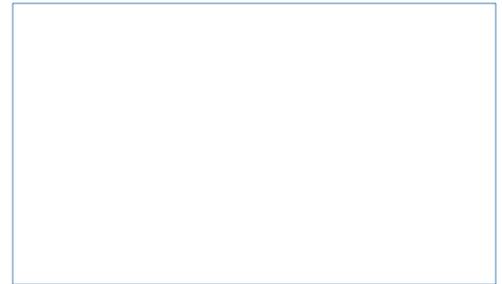


Next Lecture

**Interior Design; Interior Decoration;
and Interior Architecture**

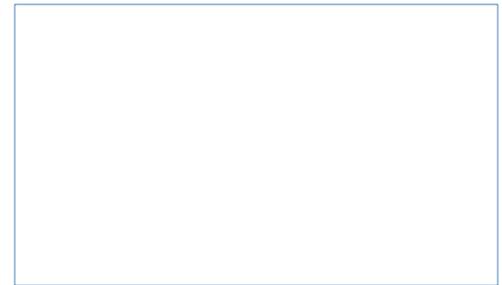


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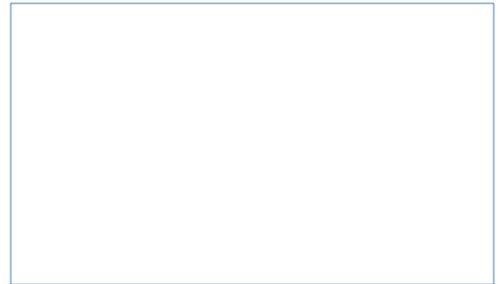
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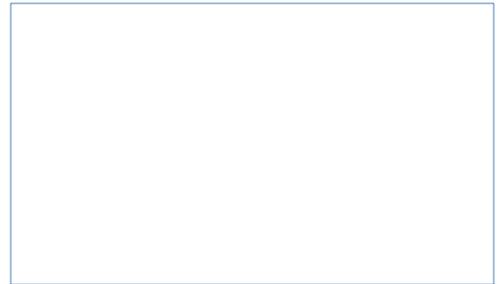


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Thank You

