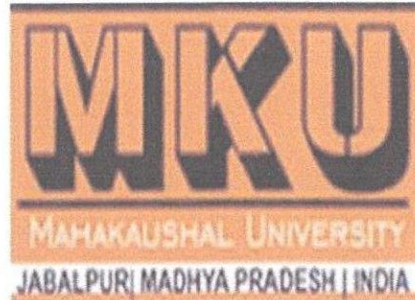


**MAHAKAUSHAL UNIVERSITY**

**JABALPUR M.P.**



## Syllabus

**M.A. In INTERIOR DESIGNING**

**Course Code: MMAI**

Department of Fashion Designing

Faculty of Fashion designing

Duration of Course : 2 Year

Examination Sem : Semester

Examination System : Grading

# **1<sup>st</sup> Semester**



**Research methods & statistic MMAI0101-T**

**UNIT-I**

**Marks : 8**

**'The Research Process-** Scientific approach to enquiry in comparison to native, Common sense approach Knowledge, theory and research -Research Design -Steps in the Research Process - hypothesis and types of hypothesis Hypothesis testing-null hypothesis, sample distribution, level of significance - types of Research

**UNIT II**

**Marks : 8.5**

**Data Collection-** Primary and secondary methods of data collection -Different types of questionnaires, tools for data Collection -Procedure for data collection • Planning for data analysis coding of response- coding of data -Parametric and non-parametric tests -Use of statistical tools

**UNIT III**

**Marks : 8.5**

**Introduction to Statistics Quantitative analysis, descriptive statistics, inferential statistics-** Measures of central tendency mean? Median, mode-arithmetic mean -and its Uses, mid range, geometric mean, weighted mean -Measures of dispersion /variability- range, variance, standard deviation, standard error, coefficient of variation, Kurtosis, skewness Normal Distribution- Binomial distribution -Probability, use of normal probability tables, are under normal distribution curve

**UNIT IV**

**Marks : 8.5**

**Correlation and 'Regression and its interpretation-** liner regression and correlation Coefficient-Regression and prediction -Rank correlation, Product-moment method Chi square Test and its interpretation -General features goodness off it-Analysis of variance and its Interpretation

**UNIT V**

**Marks :8.5**

**Presentation of Data-** tabulation and Organization of data-frequency distributions, cumulative frequency distribution contingency tables -Graphical presentation of data- The! Research Report Basic components of a research report.

**Sessional**

**Practical**

All Units(1 to 5)



**REFERENCE:**

1. Jain. G. (1998): Research Methodology: Methods and Techniques, Mangal Deep, Jaipur.
2. Kothari, C.R, (2000) Research Methodology: Methods end techniques wishwa Prakashan, New Delhi
3. Gupta, s (2001)"Research Methodology and Statistical Techniques", Deep and Deep, New Delhi
4. Holloway, I. (1997); Basic Concepts of Qualitative Research, Blackwell Science, London.

**Construction material and furniture Design**  
**MMAI0102-T**

**UNIT I**

**Marks : 8**

**Different type of construction materials used in Interiors-** structural systems and different type of techniques used in construction -properties trends and usability of the material and its cost.

**UNIT II**

**Marks : 8.5**

**Walls & wall finishes:** Interior walls classification· Wood, glass,-Paints, tiles -Terra cotta, marble wash, Metals, -(stone finishes), selection, laying -cost, estimation, care and maintenance -Exterior walls stones, rubble tiles, fresco, plaster of Paris, murals glass and metals, paints and plastering-Selection, laying, care and maintenance

**UNIT III**

**Marks : 8.5**

**Floors and Floor finishes:** interior floors Mud, cement, brick granolithic, terrazzo, mosaic, tiled. marble, timber rubber, cork, glass plastic or PVC floors -Floor covering- rugs and carpets selection, lying, care and maintenance • exterior floor -Concrete slabs, tiles

**UNIT IV**

**Marks : 8.5**

**Roofs:** Classification of roofs-Flat and pitched -Materials used for interior roofs, plastering, Embossing, fresco, plaster of Paris, plastic, Kerala tiles, wooden paneling, glass, false ceilings, selection, care and maintenance joineries -Doors, windows, cupboards- types, materials used, Estimating the cost of construction

**UNIT V**

**Marks : 8.5**

Design and techniques used in construction of Single bed with side table -Wardrobe Design- Study tables -Wall units -Kitchen Platform -Conference Table -Reception Table -Partition and Paneling -Display Counter

**Sessional**

**Practical**

All Units(1 to 5)

**REFERENCE:**

1. Diwan 'S (1999): Sanskruti-A manual of interior Design.
2. R 'Barry, the Construction of Building Vol. I, II, IV ELBS Publication.
1. Arora, S.P., 'Binddra, S.P. 2005, A Text book of building Construction Dhanpat Rai Publication (P) Ltd., New Delhi.
4. Rangwala S.C, 'Building Construction, Charotta Pub, Anand
5. B.C. Purnima, Building Construction, Laxmo Publication.
6. Sushil Kumar, Building Construction, Laxmo Publication.
- 7 Francis D.K. Ching, Building Construction III ustrated Van norlrend
8. D.A.C.A. Boyne, architects working detail vol. I, III, IV, V, VIII, X The architectural press ltd. London.

**Light and colors in Interior Design MMAI0103-T**

**UNIT- I**

**Marks : 8**

**Light:** aspects of lighting – physical psychological aspects, color of light color rendition daylight artificial light brightness the visual environment- study of day lighting as a means of providing light within built spaces. Day visual perception and light basic artificial lighting sources, light and visual effects, light revealing architecture designing for artificial lighting quantity and quality integration with daylight ting, computer simulation programs that aid artificial lighting design.

**UNIT- II**

**Marks : 8.5**

Light distribution, intensity & diffusion, light & visual effect, lighting & conservation, lighting as a system lamping, beam spread, color effects, illumination and calculation, and light manipulation, electricity, electrification systems, voltage, wiring, breakers, fuses and. Lighting fixture and fitting types, output, efficiency & cost.

**Unit- III**

**Marks : 8.5**

**Types of lamps-** Incandescent, fluorescent & HID lamps, their lighting characteristics & applications. Illumination levels and various tasks and distribution of luminaries for better lighting in the interiors space-transforming light techniques in an apartment, retail store, exhibition space. Design of lighting for various spaces like restaurants, hotel lobbies, institutes, halls, offices and transit facilities.

**Unit- IV**

**Marks : 8.5**

**Color-** history of color, effect of colors, color, mixing, color dynamics, color planning in design. Various color system- Muncell system, Oswald system, DIN system, QAS system, color aid system- color system in practice, color terminology, analysis of color wheel, color schemes, psychological- impact of colors, special color issues mixed color effects, effect of texture.

**Unit- V**

**Marks : 8.5**

Use of colors in various functional contexts; color in historic interiors, color in current practice. Selection of colors for various spaces like restaurants, hotel lobbies, institutes, halls, offices and transit facilities.

**Sessional**

**Practical**

All Units(1 to 5)



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## REFERENCE:

1. Robbins C.L. (1986 ) Day lighting Design And Analysis Van No strand Reinhold Co
2. Egan M. David (1983) Concepts In Architectural Lighting Mcgraw Hill Book Company
3. Jankowski Wanda Lighting (1993) PCB International New York
4. Wilhide Elizabeth Lighting (1998) Ryland Peters And Small London
5. Noisewand Nonie Lighting Octopus (1999) Publishing Group London
6. Mos Rogerw Lighting for Hist5oric Building 1998 John Wiley New York
7. Color In Interior Design – John F. Pile
8. Color Scheme Bible – Anna Starmer
9. Color Notation - Munsell
10. Introduction To Color – R.M. Evans

## Building construction for interior designers MMAI0104-T

### **UNIT-I**

**Marks :8**

Elements of the building and building materials. Construction regulations, building regulations, Site security, material storage. Architectural symbol, building methods, bonds, wall thickness, openings. Foundation: types of foundations, objectives, Rcc footing, SBC of soil.

### **UNIT- II**

**Marks : 8.5**

Building system- bearing walls, skeleton, shell construction constructional details for bearing wall building (bricks and stones), partitions, reinforced brick work.

### **Unit- III**

**Marks : 8.5**

Construction details for lintels and arches, vaults and domes, scaffolding, from work-erection of from work for slab, Rcc columns, beams, damp proofing, water proofing anti-termite treatments, heat and sound insulation.

### **Unit- IV**

**Marks : 8.5**

Expansion and settlement joints-purpose and function. Retaining walls, stairs, - details with erection requirements, internal sanitary installations, internal and external finishes.

### **Unit- V**

**Marks : 8.5**

Construction equipments- transportation vehicles, excavating and dozing machines hoists concrete mixing plants, batching plants gas supply, gas fires, electronic communications. Prefabrication of building elements, principle of jointing and principles of modular coordination.

### **Sessional**

### **REFFRENCE**

- Ramsey, Sleeper Architectural Graphic standards, Wiley, Latest Ed.
- Mitchell, Building Construction, bastford, Latest Ed.
- building construction- punmia B.C.
- building construction- varghese P.C.
- Building construction- susheel Kumar.
- McKay's, Building Construction, Volume one, Longmans, Latest ED



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Vastu – I Lab MMAI0105-P

<b>Unit- I</b>	<b>Marks : 8</b>
<ul style="list-style-type: none"><li>● Introduction to Vastu</li><li>● Vastu in Interior</li></ul>	
<b>Unit- II</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● The historical Background in Vastu</li><li>● Necessity of Vastu</li></ul>	
<b>Unit- III</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● Is Vastu a Science</li></ul>	
<b>Unit- IV</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● Role of Vastu Science in 21 Century</li></ul>	
<b>Unit- V</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● Managing Interior with Vastu.</li></ul>	
<b>Sessional</b>	<b>Marks : 8.5</b>

### **Practical:**

- All Units(1 to 5)

### **Reference Books:-**

- Vastu Workbook Using The Subtle Energies of the Indian Art of placement by- Andy Sentard Kindle Edition
- Auto CAD for Interior Design and space planning using Auto CAD 2000 by- Beverly L. Kirkpatrick.



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Furniture - Lab I MMAI0106-P

<b>Unit-I</b>	<b>Marks : 8</b>
<ul style="list-style-type: none"><li>● Introduction of furniture</li><li>● Introduction of furniture material</li></ul>	
<b>Unit-II</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● Types of furniture</li><li>● Wood furniture with wood</li></ul>	
<b>Unit-III</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● Enigma of furniture</li><li>● Geographical world Division</li></ul>	
<b>Unit-IV</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● Furniture period</li><li>● Classification of period</li></ul>	
<b>Unit-V</b>	<b>Marks : 8.5</b>
<ul style="list-style-type: none"><li>● Period furniture</li><li>● Oriental furniture</li><li>● Historic and period furniture</li></ul>	
<b>Sessional</b>	<b>Marks : 8.5</b>
<b>Practical:</b>	
<ul style="list-style-type: none"><li>● All Units(1 to 5)</li></ul>	

### **Reference Book:-**

Constructing Medieval Furniture: Plans and Instruction with Historical Notes by Daniel Diehl

# **2<sup>nd</sup> Semester**



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Drawing Techniques MMAI0201-T

### UNIT-I

**Marks :8**

**Drawing Equipment-** Supports – Canvas Boards Panels And Papers – Water Color And Oil Painting Brushes – Water Colour And Oil Paint Developing Design On Various Supports With Different Brushes

### UNIT- II

**Marks : 8.5**

**Drawing Media-** Pencils, Charcoal, Pastels, Conte Crayons, Pen And Ink, Markers And Fiber Tip Pens, Accessories, Drawing With Different Media

### Unit- III

**Marks : 8.5**

**Painting Media-** Water Color - Gouache Tempera And Acrylics, Oils – Paints Binders Diluents Mediums Palettes And Accessories, Developing Wall Hangers With Water Colour And Oil Paints

### Unit- IV

**Marks : 8.5**

**Techniques of Drawing-** Line, Points, Tone, Wash, Texture, Developing Greeting Cards Using Different Techniques

### Unit- V

**Marks : 8.5**

**Colour And Composition-** Colour - Language Tonal Value Mixing Colour Expression And Colour Contrast, Composition Creating Focal Points, Evaluating Three Famous Artists Work Submission Of A Record

## REFREANCE

1. Gair, A., 1999, Artists' Manual, Hopper Collins Publishers, London.
2. Holt, F .T. And Smith, S. 1997, The Artists Manual -Equipment, Materials, Techniques, Grange Books, London .
3. Maihotra And Maihotra 2001 Drawing Techniques Blue Bird Books, Delhi.
4. Monahan P Seligman P. And Clouse W. 2000, Art School -A Complete Painters Course, Chancellor Press, London.
5. Stanyer , P. 2003. The Complete Book Of Drawing Technique S, Areturus Publishing Limited For Book Mark Limited, Leicester. .
6. Stewart And Walton, S. 2000, Paint Receipes For Surfaces, Anness Publishing Ltd., London

## Furnishings of interiors MMAI0202-T

### UNIT – I

**Marks :8**

**Upholstery Covering** Material and Other Items. Process of Upholstery. , Cautioning Materials – Springs Jute Cotton Foams Rubber Miscellaneous Items Such As Cane Jute Leather Straps Slip Covers Fasteners Etc Tapestries - Basic Properties Raw Material - Cotton Synthetic Woolen Rexene Leather Blended Etc Design Dye Textures Sizes Weight Stitching Prices Care.

### UNIT – II

**Marks : 8.5**

**Curtains:-** Curtains & Draperies Types Of Window Shapes Pleats- Plain French Pleated Etc Length Of Curtain , Cotton Curtain ,Silk Curtains, Cotton –Silk Mixed, Synthetic Fiber, Curtain Woolen , Synthetic & Wool Blended Curtains, Flame Resistant Property, Warp & Weft Texture, Dyes Blends Weight Cost ,Care & Maintenance , Top Treatment Of Windows- Pelmet , Valances Swags & Tails Hardware For Curtains- Rods. Poles, Tracks Tiebacks, Etc,

**Other Furnishings :-** Bed Covers Cushion Covers - Shapes Sizes Types Of Filling Designs Stitching , Handlooms Mill Made, Tufted Chandelier Khadi & Other Types Both & Printed Table Jinan, Bath Mats, Toilet Mats, Etc

**Fittings:** Doors, Windows, Ventilator Fittings In Various Materials , Like Ms Brass And Aluminum Plastic Etc Handles, Bolts Hinges Springs, Locks, Latches Etc,

### UNIT –III

**Marks : 8.5**

#### **History Of Furniture's**

Significance Of Furniture , Furniture Periods, Classification Of Periods, Period Furniture , Oriental Furniture Historic & Period Furniture - History Of Furniture Ancient World - Ancient Egyptian Furniture Characteristics – Early Greek Furniture – Study Of Greek Furniture Influence Of Other Countries On Greek Furniture , Its Importance Types Of Furniture Items – Roman Furniture Forms – Furnishings – History Of Furniture In The Middle Ages: Early Medieval Period, Characteristics Of Furniture – Romanesque Furniture , Gothic Style Of Furniture – Evolution M Characteristics , Items Of Furniture Furniture Development In Italy - Per Renaissance , Baroque – Characteristics &Types Of Furniture – Characteristics Of Neo – Classical - Furniture Development In France – Pre Renaissance High Renaissance , Its Characteristics – Characteristics Of Style Regency & Rococo – Art Nouveau – Aesthetic Revolution Of 1870 Great Designers , French Provincial - Characteristics , Ranges & Important Items Of Furniture



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## **UNIT – IV**

**Marks : 8.5**

Furniture Development In England : Of English Furniture – Tudor Early Stuart , Restoration Early Georgian Age Of Great Designers Victorian Styles – The Arts & Crafts Movement- Wood Based Classification Of Furniture Periods – History Of The 20 The Century Interior & Furniture :- Furniture Development In Germany The Deutsche Werkbundm,1907 Bauhaus Developments In Bauhaus ,Contribution Or Breuer & Mies – Furniture Development In France Art Deco – Types , Characteristics, Items, Designers – Furniture Development In England, U.S.A

## **UNIT – V**

**Marks : 8.5**

### **Indian Interior Design**

Influence Of Religious Beliefs Characteristics, Decoration & Ornamantation. Glossary Of Furniture Terms: Related To Furniture Items, Processes Finishes & Furnishings.

### **Sessional**

### **Practical**

All Units(1 to 5)

### **Reference:**

1. Interior Design – Ahmed A. Kasu



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Advance Building Services MMAI0203-T

### **UNIT – I**

**Marks :8**

**WATER SUPPLY AND DRAINAGE-** 1.water supply requirements for building, types and sizes of pipes water supply fittings to bathrooms WCs sinks bath tubes showers urinals, types and sizes functional and uses of drains and tapes, types and sizes of sanitary fixtures WCs sinks bath tubes bidets

### **UNIT – II**

**Marks : 8.5**

**ENVIORMENTAL SCIENCES-** Sources of pollution, courses & effects of air pollution and water pollution, waste water treatment for Industrial purposes, sources of air pollution & effects on buildings, plants, animals & humans, Role of civic & voluntary bodies in planning.

### **Unit – III**

**Marks : 8.5**

**Thermal Insulation-**Definition & purpose of insulation, General principles of thermal insulation, study of heat insulation materials, coefficient of thermal conductivity of different materials, method of thermal insulation for roofs, exposed walls, window, doors ventilators etc.

### **Unit – IV**

**Marks : 8.5**

**Acoustics:** Definition, properties of sound & basic definition, principals of acoustics, Acoustics Phenomena in enclosed spaces like studios, auditorium, conference halls, sound absorbents & their classification, for partitions, walls, floors, ceilings, window, doors etc.

### **Unit-V**

**Marks : 8.5**

**Lift & escalator-** Definition & components types of lifts principal and working lift space requirement application location & arrangements of buildings safety regulation air conditioning and ventilation definition of air conditioning purpose and classification of air conditioning system and application of air conditioning definition of ventilation purpose & classification of ventilations functions of ventilations with graphical represent in plans

### **Sessional**

### **Reference**

- 1.BUILDING CONSTRUCTION B.C. PUNIMA OR RANGWALA OR SUSHIL KUMAR
2. INTERIOR DESIGN AHMED A KASU
3. ENVIORMENTAL AND SANITARY ENGINEERING – G.S. BIRDIR



**Residential interior space design MMAI0204-T**

**UNIT – I**

**Marks :8**

**Introduction to designing residential interior spaces-** purpose of designing residential interior spaces considerations for designing residential interior spaces big and small.

**UNIT – II**

**Marks : 8.5**

**Criteria for planning a house-** orientation grouping of rooms circulation between within the rooms flexibility privacy roominess light and ventilation services aesthetics cost.

**UNIT – III**

**Marks : 8.5**

Factors contributing to selection of furniture and furnishing climate needs and preferences availability of materials cost .

**UNIT – IV**

**Marks : 8.5**

**Ergonomic principles its importance and application in designing-** residential interior spaces with focus on special population

**UNIT – V**

**Marks : 8.5**

**Anthropometric data-** relation of human body measurements to furniture design and work station design study of body postures and its importance in designing work spaces. study of body postures and its importance in designing work spaces.

**Sessional**

**Practical**

All Units(1 to 5)

**REFERENCES**

1. alexnder N.S. and mere court b.1972 designing interior environment havenovich
2. ball v.k. the art of interior design the Macmillan and co. new York
3. chudley r.1978 construction technology vol.1 to 4 albs and longman group ltd.
4. grandjen e.1978 ergonomic of the home taylor and francis ltd.london
5. kasu ahmed Abdullah 1992 an introduction to art craft technique science and profession of interior design Bombay iqyara publications
6. panero j and zelink m 1979 human dimensions and interiors spaces whitney library of design new York
7. stedile r and braton ec 1968 work in the home john wilen and sons London



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Vastu – II Lab MMAI0205-P

### Vastu:-

- Vastu tips in Architecture
- Vastu Shastra Does Remedies
- Importance of Direction in Vastu Shastra
- Vastu and the Exterior
- Vastu in the Gardan

### Unit-I

- Vastu tips in Architecture
- Vastu Shastra Does Remedies

Marks :8

### Unit-II

- Importance of Direction in Vastu Shastra
- Vastu and the Exterior

Marks : 8.5

### Unit-III

- Vastu in the Gardan

Marks : 8.5

### Unit-IV

- Layout with Vastu
- Vastu with feng Shui

Marks : 8.5

### Unit-V

- Introduction
- How did feng Shui

Marks : 8.5

### Sessional

### Practical:

- All Units(1 to 5)

### Reference Books:-

- Vastu Workbook Using The Subtle Energies of the Indian Art of placement by- Andy Sentard Kindle Edition

## Furniture – II Lab MMAI0206-P

### Furniture:-

- Elements of furniture. Sofa, Seating IMALES, Sofa seating female corner.
- Types-Beds- Wardrobes and pressing- Tables.
- Reclining Chair With food rest/ Male and female Wall unit.
- Dining Spaces Structure. Optimum place setting
- Minimum place setting
- Furniture Basic
- Anthropometry and Ergonomics
- Wood and Wood Products
- Standard Size of furniture
- Furniture Design Exercises

### Unit-I

**Marks :8**

- Elements of furniture. Sofa, Seating IMALES, Sofa seating female corner.
- Types-Beds- Wardrobes and pressing- Tables.

### Unit-II

**Marks : 8.5**

- Reclining Chair With food rest/ Male and female Wall unit.
- Dining Spaces Structure. Optimum place setting

### Unit-III

**Marks : 8.5**

- Minimum place setting
- Furniture Basic

### Unit-IV

**Marks : 8.5**

- Anthropometry and Ergonomics
- Wood and Wood Products

### Unit-V

**Marks : 8.5**

- Standard Size of furniture
- Furniture Design Exercises

### Sessional

### Practical:

- All Units(1 to 5)

### Reference Book:-

- Constructing Medieval Furniture: Plans and Instruction with Historical Notes by Daniel Diehl

# 3<sup>rd</sup> Semester



**Commercial Interior Space Design MMAI0301-T**

**UNIT – I**

**Marks :8**

**Introduction to commercial interior space design-** types of commercial interior spaces factors influencing designing of commercial interior spaces materials used in designing commercial designing spaces

**UNIT – II**

**Marks : 8.5**

Designing consideration for commercial spaces shops restaurants clinic offices library.

**UNIT – III**

**Marks : 8.5**

Application of ergonomic principles in designing commercial interior spaces

**UNIT – IV**

**Marks : 8.5**

Study of different body postures adopted in carrying out activities and its relation in designing different work counters in various commercial spaces

**UNIT – V**

**Marks : 8.5**

Importance and use of accessories plants landscapes in designing commercial interior spaces

**Sessional**

**Practical**

All Units(1 to 5)

**REFERENCES**

1. Grant Camden Kirkpatrick shops and boutiques
2. stafford cliff the best exhibition stand design 2 roto vision Switzerland
3. ilma barr Katherine field storesen retail display and design pbc international
4. carles broto new shop design arian mostadi
5. rolshoven martin exhibition design rockport publication
6. jeong ji seong interior design bar and restaurant jeong je seong
7. nanelli sara design for shopping new retail interiors laurance king publishing ltd.
8. jeong ji seong interior design boutique hotel and spa



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## INDUSTRIAL BASED ENVIRONMENTAL STUDIES – MMAI0302-T

### UNIT – I

Marks

Environment – Definition – Scope – Structure and function of eco system's procedures, consumers and decomposers – energy flow in the ecosystem – ecological succession – food chain, food web and ecological pyramids - concepts of sustainable development.

### UNIT – II

Marks

Natural resources: Renewable – air, water, soil, land and wildlife resources. Non- renewable – mineral, coal, oil and gas. Environmental problems related to the extraction and use of natural resources.

### UNIT – III

Marks

Biodiversity – Definition – values – consumption use, productive social, ethical, aesthetic and option values threats to biodiversity – Hotspots of bio diversity – conservation of biodiversity: In-situ Ex-situ. Bio-wealth – national and global level.

### UNIT – IV

Marks

Environmental pollution : Definition – causes, effects and mitigation measures – Air pollution, Water pollution, Soil pollution, Noise pollution, Thermal pollution – Nuclear hazards – solid wastes acid rain – climate change and global warming environmental laws and regulations in India – Earth summit.

### UNIT – V

Marks

- Comfortable Design
- Natural Daylight
- Climatology
- Ventilation
- Air-conditioning
- Acoustics
- Waterproofing

### Reference :

Environmental Studies : From Crisis to Cure  
Objective Environmental Sciences  
Environmental Studies : Multiple Choice Questions



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## CONSTRUCTION TECHNIQUES & PART OF BUILDING – MMAI0303-T

### UNIT- I

Marks

- Masonry Construction, Walls and Lintels
- Brick Masonry: Tool of Brick Laying, Types of Bond
- Stone Masonry: Classification of Stone Masonry
- Door and Window
- Architectural Symbols

### UNIT- II

Marks

- Lintels
- Arches
- Door
- Window
- Fixtures and Fastenings

### UNIT- III

Marks

- False Ceiling
- Partition
- Paneling
- Staircase
- Arches.
- Joint
- Board Joints

### UNIT- IV

Marks

- Staircase
- Classification of Staircase

### UNIT- V

Marks

- Flooring

### Reference :

Construction and Home Repair Techniques Simply Explained  
The Visual Handbook of Building and Remodeling, 3rd Edition  
Basic Machines and How They Work



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## ROLE OF INTERIOR DESIGNER-I – MMAI0304-T

<b>UNIT I</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Interior Designer as Professional</li><li>● Legal Responsibilities of interior Designer</li></ul>	
<b>UNIT II</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Code of Ethics</li><li>● Type of Fees</li><li>● Contract</li></ul>	
<b>UNIT III</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Tenders</li><li>● Specification</li><li>● Budgeting and Estimation</li></ul>	
<b>UNIT IV</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Estimation and Role of Interior Designer</li><li>● Designer Vs. Client Relationship</li></ul>	
<b>UNIT V</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Modern Interior Designer Features</li><li>● Plans and Professional Tips</li></ul>	

### **Refrence :**

Interior Design Course : Principles, Practices and Techniques for the Aspiring Designer  
The Architecture Reference & Specification Book : Everything Architectects



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Auto CAD Lab- MMAI0305-P

<b>CAD:-</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Introduction to CAD</li><li>● Software of CAD</li><li>● Advantage of CAD</li><li>● An introduction to AUTOCAD</li><li>● World co- ordinate System</li><li>● Drawing units and scaling</li><li>● Drawing Entities</li><li>● Color and line types</li></ul>	
<b>Unit- I</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Introduction to CAD</li><li>● Software of CAD</li></ul>	
<b>Unit- II</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Advantage of CAD</li><li>● An introduction to AUTOCAD</li></ul>	
<b>Unit- III</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● World co- ordinate System</li></ul>	
<b>Unit- IV</b>	
<ul style="list-style-type: none"><li>● Drawing units and scaling</li></ul>	
<b>Unit- V</b>	<b>Marks</b>
<ul style="list-style-type: none"><li>● Drawing Entities</li><li>● Color and line types</li></ul>	

### **Refrence :**

Auto Cad 2017 for Engineering & Designers, 23ed : Basic and Intermediate



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Interior Space Design Lab MMAI0306-P

- Unit-I** **Marks :8**  
.INTERIOR DESIGNING LAYOUT OF SMALL 60-80 M2 RESIDENTIAL INTERIORS SPACE
- Unit-II** **Marks : 8.5**  
.interior designing layout of large 100-150 m2 residential interior space
- Unit-III** **Marks : 8.5**  
.application of ergonomic in designing interiors for special population
- Unit-IV** **Marks : 8.5**  
. interior designing layout of small 15m2to20m2 commercial spaces
- Unit-V** **Marks : 8.5**  
.interior designing layout of large 100m2 to 250m2 commercial spaces

### **Reference Books:-**

- Time-Saver Standards for Interior Design and Space Plannomg,2nd Edition by- Julius Panero
- Color+Design: Transforming Interior Space By Ronald Reed

# **4<sup>th</sup> Semester**



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## History of Interior Design – Ancient Civilizations MMAI0401-T

### **Unit 1: Introduction to History of Interior Design**

Importance and scope of studying design history.  
Evolution of shelter and interiors from primitive man to early civilizations.  
Relationship between culture, geography, and design.  
Influence of materials and construction techniques on interiors.

### **Unit 2: Egyptian Civilization (3000–1000 B.C.)**

Characteristics of Egyptian architecture and interior design.  
Palaces, temples, tombs (Pyramids).  
Furniture, motifs, ornamentation, colors, and symbols.  
Use of columns, hieroglyphics, and mural paintings.

### **Unit 3: Greek Civilization (1200–146 B.C.)**

Development of classical orders: Doric, Ionic, Corinthian.  
Domestic architecture and public buildings.  
Greek furniture, pottery, colors, and decorative motifs.  
Influence on later Western interior design.

### **Unit 4: Roman Civilization (753 B.C.–476 A.D.)**

Roman architecture and interior spaces: villas, baths, amphitheatres.  
Use of arches, vaults, and domes.  
Mosaic floors, wall paintings (Pompeii style).  
Furniture types and decorative styles.

### **Unit 5: Other Ancient Civilizations**

**Mesopotamian Civilization:** Ziggurats, wall reliefs, and motifs.

**Indus Valley Civilization:** Town planning, drainage, domestic spaces, materials.

**Chinese Civilization:** Feng Shui concepts, traditional furniture, and color symbolism.

**Japanese Civilization:** Simplicity, tatami, shoji screens, minimalism.

### **Recommended Books**

1. John Pile – *A History of Interior Design*
2. Jeannie Ireland – *History of Interior Design*
3. Sharma & Kaul – *History of Architecture*
4. Buxton – *The Elements of Interior Design and Decoration*



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## DESIGN OF DREAM HOUSE MMAI0402-T

### UNIT 1: Introduction to Dream House Design

- Concept of a “Dream House” — cultural, emotional, and functional perspectives
- Understanding client needs and lifestyle
- Site selection & orientation
- Space zoning: Public, private, and service areas
- Case studies of iconic homes (across cultures)

### UNIT 2: Space Planning & Functionality

- Designing a basic layout (2BHK, 3BHK, duplex, etc.)
- Anthropometrics and ergonomics
- Circulation and flow
- Furniture layout planning for each room
- Storage integration and flexibility in spaces

### UNIT 3: Interior Design Elements & Materials

- Walls, flooring, ceiling design and finishes
- Selection of materials (wood, marble, tiles, fabric, paint)
- Lighting types: Ambient, task, accent
- Color theory and mood creation
- Interior themes: Minimalist, modern, rustic, Scandinavian, etc.

### UNIT 4: Sustainable & Smart Home Integration

- Use of sustainable materials and energy-efficient designs
- Rainwater harvesting, solar panels, passive ventilation
- Smart home features: automation, security, lighting control
- Indoor air quality and natural light optimization

### UNIT 5: Presentation, Rendering & Model Making

- Drafting floor plans, elevations, and sections
- Digital rendering using SketchUp, AutoCAD, or Revit
- Mood boards and material boards
- 3D physical model making (optional)
- Final project presentation: “My Dream Home Design”

#### Recommended Reference Books & Materials

1. Pile, John – A History of Interior Design
2. Ching, Francis D.K. – Architecture: Form, Space and Order
3. Neufert – Architect’s Data
4. Maureen Mitton – Interior Design Visual Presentation
5. Karlen, Mark – Space Planning Basics
6. Life of an Architect Blog & Dezeen – for modern case studies



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## of Design Fundamentals : Guidelines MMAI0403-T

### Unit I – Principles and Elements of Design

Meaning and importance of design in interiors

Elements of design:

Line, Form, Shape, Space, Texture, Colour, and Pattern

Principles of design:

Balance, Rhythm, Harmony, Proportion, Scale, Emphasis, and Unity

Relationship between elements and principles in interior spaces

Application of design principles in furniture, layout, and décor

### Unit II – Anthropometrics and Ergonomics

Definition and importance of anthropometrics

Human dimensions and furniture design

Ergonomic considerations in interior design

Designing spaces for comfort, function, and safety

Study of standard measurements for residential and commercial furniture

### Unit III – Functional and Aesthetic Guidelines

Planning principles for different spaces:

Residential (living room, kitchen, bedroom, bathroom, etc.)

Commercial (office, boutique, restaurant, etc.)

Circulation and zoning

Visual balance and focal points in interiors

Lighting and ventilation considerations

Aesthetic value in furniture and furnishing selection



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Unit IV – Space Planning and Design Process

Introduction to the design process:

Problem identification, concept development, sketching, and presentation

Bubble diagrams and zoning layouts

Preparation of working drawings and 3D views

Space utilization and furniture arrangement

Scale and proportion in interior planning

## Unit V – Design Communication and Presentation

Role of drafting and rendering in design presentation

Techniques of visual communication (manual & digital)

Colour schemes and mood boards

Model making and presentation boards

Portfolio development and client presentation

## Recommended References / Books

Francis D.K. Ching – Interior Design Illustrated

Julius Panero & Martin Zelnik – Human Dimension and Interior Space

John F. Pile – Interior Design (3rd Edition)

Linda O’Shea, Chris Grimley, Mimi Love – The Interior Design Reference & Specification Book

Shashi C. Jain & Sushila Chauhan – Interior Design and Decoration

Herbert Read – The Meaning of Art (for aesthetic principles)

DeChiara, Panero & Zelnik – Time-Saver Standards for Interior Design and Space Planning



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Design Project MMAI0404-T

### Unit 1: Project Selection and Research

Selection of a live or hypothetical interior design project.

Client profile and requirement analysis.

Site study and analysis (location, surroundings, climatic conditions).

Data collection and case studies.

Preparation of area requirements and bubble diagrams.

Practical Work:

Site visit and documentation

Case study report

### Unit 2: Concept Development

Development of design concept and theme.

Mood boards, color schemes, and material selection.

Space planning and circulation analysis.

Preliminary sketches and design alternatives.

Practical Work:

Presentation of concept sheets and color/material boards.

### Unit 3: Design Development

Finalization of layout plan.

Furniture design and placement.

Lighting, acoustics, and HVAC considerations.

Working drawings and construction details.

Practical Work:

Preparation of working drawings (plans, elevations, sections).

### Unit 4: Presentation Techniques



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2D and 3D visualization (manual or digital).

Rendering techniques and model making.

Preparation of final presentation drawings and boards.

Use of computer software (AutoCAD, SketchUp, Revit, Photoshop).

Practical Work:

Final presentation boards and scale models.

## Unit 5: Project Documentation and Report

Project report compilation (concept, design process, materials, costing, sustainability).

Portfolio development and professional presentation.

Viva voce / jury presentation.

Practical Work:

Submission of full project report and presentation for evaluation.

References / Recommended Books

Pile, John F. – Interior Design

Ching, Francis D.K. – Interior Design Illustrated

De Chiara, Joseph & Panero, Julius. – Time-Saver Standards for Interior Design and Space Planning

Karlen, Mark. – Space Planning Basics

Nussbaumer, Linda O'Shea. – Human Factors in the Built Environment

Callender, John. – Time Saver Standards for Architectural Design Data

Julius Panero & Martin Zelnik. – Human Dimension & Interior Space

Francis D.K. Ching. – Design Drawing

AutoCAD / SketchUp / Revit Manual Guides (for digital design visualization).



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Auto CAD & 3D Max Virey - MMAI0405-P

### CAD:-

- Introduction to CAD
- Software of CAD
- Advantage of CAD
- An introduction to AUTOCAD
- World co- ordinate System
- Drawing units and scaling
- Drawing Entities
- Color and line types
- Introduction to CAD
- Software of CAD

Marks

### Unit-I

- Advantage of CAD
- An introduction to AUTOCAD
- World co- ordinate System
- Drawing units and scaling

Marks

### Unit-II

- Drawing Entities
- Color and line types
- 3D Max & Virey
- 3D Max All Command

Marks

### Unit-III

- Plan 3D View Drawing
- Editing and Drawing
- 3D Max & Virey

### Unit-IV

- 3D Max All Command
- Plan 3D View Drawing

Marks

### Unit-V

- Editing and Drawing

Marks

### Refrence :

Auto Cad 2017 for Engineering & Designers, 23ed : Basic and Intermediate



# MAHAKAUSHAL UNIVERSITY, JABALPUR (M.P.)

## Final Presentation MMAI0406-P

### UNIT 1: Project Compilation

Finalization of one major design project (residential, commercial, institutional, hospitality, etc.)

Concept note, site analysis, client profile

Functional requirements, design brief and space planning

Concept sketches and zoning diagrams

Practical Output:

Concept Sheet

Client Requirement Chart

Site & Area Analysis Sheet

### UNIT 2: Working Drawings and Services

Final Floor Plans with furniture layout

Electrical layout, lighting plan

Plumbing & sanitary layout

Reflected ceiling plan (RCP)

Interior elevations, sections & wall treatments

Practical Output:

Set of working drawings (hardcopy or digital)

MEP (Mechanical, Electrical, Plumbing) details

### UNIT 3: Material Boards and Detailing

Preparation of material boards (for flooring, wall finishes, ceiling, furniture)

Furniture design & joinery details

Finishes, color palette, mood boards

Sustainable materials and green design practices



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Practical Output:

Material sample board

Furniture detailing sheet (exploded views, joinery)

## UNIT 4: Model Making and Visualization

Physical model (scale or concept)

3D views using SketchUp/Revit/Lumion/3Ds Max

Use of rendering software (Photoshop, Enscape, Twinmotion)

Realistic walkthroughs or animated visualizations (optional but encouraged)

Practical Output:

Digital walkthrough or rendered views

Physical model or laser-cut concept model

## UNIT 5: Portfolio Development and Viva

Compilation of all design works (portfolio format)

Resume and professional profile preparation

Understanding of portfolio layouts, printing, and digital formats

Viva-voce or external jury evaluation

Oral presentation techniques, visual communication, body language

Practical Output:

### Recommended References

Ching, Francis D.K. – Interior Design Illustrated

Karlen, Mark – Space Planning Basics

Panero, Julius & Zelnik, Martin – Human Dimension and Interior Space

Maureen Mitton – Interior Design Visual Presentation

Jenny Gibbs – Interior Design: A Professional Guide

Otto R. – Portfolio Design



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Harold Linton – Portfolio Design for Interiors

Software: AutoCAD, SketchUp, Revit, Lumion, Photoshop, InDesign, Illustrator