

University of Rajasthan Jaipur

SYLLABUS

Bachelor's Degree in Design B.Des. in Interior Design

B.Des. (Foundation) Part-I Exam 2023

B.Des. Part-II Examination 2024

B.Des. Part-III Examination 2025

B.Des. Part-IV Examination 2026

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University of Rajasthan
(B.Des. Industrial Design & B.Des in Communication Design)

B. DES. in INTERIOR DESIGN

There will be 5 disciplines and the students can specialize in one of these disciplines.

1. Bachelor of Design {Industrial Design):
 - I. Craft Accessory Design
 - II. Fashion Design
 - III. **Interior Design**
 - IV. Jewellery Design
2. Bachelor of Design {Communication Design):
 - I. Graphic Design

Bachelor of Design (Industrial)

Interior Design

Industrial design discipline in the classical avatar covered a range of design activities such as Jewellery Design, Fashion design, Craft Accessory Design, Interior Design, Industrial Design & Communication Design. In the 21st Century, we at Rajasthan University choose to redefine these Industrial Design subsets as Human Centred Design, Universal Design, Design for Sustainability, Health care Design, Design for societal needs, Heritage design and Way finding Design.

Our design programme stresses on the specific role of a designer that of being for and only about the user and the user's needs, empathy and environment. The students will be taught critical thinking and the design process to become effective and innovative problem solvers for companies, the community and the consumers.

A range of domains such as nature and form studies, gestalt, semiotics, human factors & ergonomics, materials and processes and systems design will form an array of learning modules through studio tasks, real life projects, workshops projects both individually as well as in teams.

Students typically will start projects by developing ideas and concepts from sketches to making models and finally working prototypes which will be tested in the real world.

Our Industrial Design graduates will be prepared to make a real difference in the world of design as entrepreneurs, employees of design firms as well as of industry and many will also form venture capital firms and some will also set up unique manufacturing hubs.

The pedagogy will consist of a combination of design skills, related theory, material and manufacturing science, social knowledge, communication skills and management principles. Learnings will be through class room projects, assignments as well as exposure to industry via visits, industry immersion of a few weeks and working on live projects with Faculty and outside design experts.

The design programme will start with a common foundation year with the Communication Design students where all the students will be taught basic skills in design thinking and aesthetics, sensitizing their minds to the world around through on and off campus assignments as well as essential learning tools such as sketching, observation, photography, colour, perception, presentation, model making and workshop projects, history of design and a sprinkling of topics from philosophy to social anthropology.

- The specialization courses in the above said areas which will be of 3-year duration. Total duration of the under graduate course will be of 4 years which includes 1 year of foundation course.
- Candidates have to choose their specialization subject while applying for the foundation course.
- Group discussions, seminars, workshop, exhibitions, study tour, visit to museum, galleries, industry visit are compulsory.
- Study tour is compulsory for all the students and they have to deposit additional charges according to the actual expenses must be borne by the students.
- As B Design is a professional course, professionally qualified teachers will be assigned for practical and theory subjects.

Scheme of Exam

(10+2+4) Pattern

Duration of course:

4 Years (Maximum period allowed to complete course: 7 Years from the date of admission)

Medium: Medium of instruction and examination will be English/Hindi.

Eligibility: Candidate must have passed Senior Secondary Examination or equivalent with a minimum of 48% marks or equivalent grades

Passing criterion: For pass at each examination, a candidate shall be required to obtain a minimum of 36% in Theory paper and 40% in Practical.

Successful candidates will be qualified as under:

- | | |
|--|-----------------------------|
| a) 50% and above but less than 60% marks | II Division |
| b) 60% and above but less than 75% marks | I Division |
| c) 75% marks and above | I Division with Distinction |
| d) Aggregate 40% and above but less than 50% marks | Pass |

*No Division will be awarded in Part-I, Part-II and Part-III. Division will be awarded only after successful completion of the Four years course in the Final year result.

Course pattern:

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|---|---------|
| a) Foundation (Common for all stream of Design) | 1 Year |
| b) Specialization (after successful completion of Foundation) | 3 years |

Educational excursions/enrichment outings/activities:

Course will comprise of Group discussion, Seminars, Workshops, Exhibitions, Study tours, Visit to museum, Galleries, Industry visits etc. Visit/Excursion expenses will be borne by student.

Examination pattern: Annual

Qualifying papers: Compulsory papers like General English, General Hindi, Environmental Studies and Elementary Computer Applications may be cleared anytime by the course duration of Four years but clearing of paper is essential to obtain the degree.

Due Papers: Practical papers cannot be carried forward so a student failing in Practical paper will not be promoted to next year.

Attendance eligibility: Minimum 75% attendance is required in Theory and Practical classes individually to be eligible to appear for respective exams.

Seat reservation: As per University of Rajasthan rules

Design course material: Drawing board, Design related software, Art materials, Designing tools etc. will be to be bought by student only.

Assessment pattern:

a) Theory assessment:

- Each theory paper of 3 hours duration will be divided into 5 Units/Sections
- Each Unit/Section will have two questions from each of the Units of the Syllabus
- Student will be required to attempt one question from each unit/section with an internal choice
- All questions will carry equal marks (20 marks x 5 questions = 100 marks)

b) Practical assessment:

- Material required for Practical exam will have to be brought by the Student only.
- Each practical paper of 6 hours duration will comprise of _____ questions divided into _____ units/sections
- Student will be required to attempt a total of _____ questions selecting at least _____ question(s) from each unit/section.
- A board/panel of examiners will be formed for Practical examination by University of Rajasthan, which will comprise of an internal examiner from the College who will award from out of 40% marks for submissions, continuous internal assessments etc. and an external examiner who will award from out of 60% marks for Practical exam and viva voce for each Practical paper.

(YEAR-I)

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Distribution of Marks
B. Des.-Interior Design Foundation Part-I

Subject Compulsory only	Max Marks	Min. Pass Marks	Duration of Exam	Teaching Hours		
English Communication	100	36	3 Hrs.	100		
General Hindi	100	36	3 Hrs.	100		
Environmental Studies	100	36	3 Hrs.	100		
Elementary Computer Application	40 – Practical 60- Theory	14 22	2 Hrs. 2 Hrs.	100		
Elementary Hindi (in lieu of General Hindi for non-Hindi speaking students only)	100	36	3 Hrs.	100		
Subjects Optional						
Theory ID-101 History of Art & Design	100	36	3 Hrs.	100		
Practical	Internal Max.Marks.	External Max.Marks.	Internal Min.P.M.	External Min.P.Marks	Duration of Exam	Teaching Hours
ID-102 Fundamentals of Design	40	60	16	24	6 Hrs.	100
ID-103 Visualization & Drawing Techniques	40	60	16	24	6 Hrs.	100
ID-104 Material Studies	40	60	16	24	6 Hrs.	100
ID-105 Design Principles	40	60	16	24	6 Hrs.	100
ID-106 Design Method	40	60	16	24	6 Hrs.	100

Compulsory Paper 1

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GENERAL ENGLISH

(Examination)

Duration: 3 hrs.

Max. Marks: 100

Minimum Pass Marks: 36

The syllabus aims at achieving the following objectives:

1. Introducing students to phonetics and enabling them to consult dictionaries for correct pronunciation (sounds and word stress)
2. Reinforcing selected components of grammar and usage
3. Strengthening comprehension of poetry, prose and short-stories
4. Strengthening compositional skills in English for paragraph writing, CVs and job applications.

The Pattern of the Question Paper will be as follows:

Unit A: Phonetics and Translation (20 marks)
(10 periods)

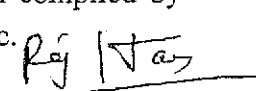
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|---|---------------------|
| I Phonetic Symbols and Transcription of Words | (05) |
| III Translation of 5 Simple sentences from Hindi to English | (05) |
| from English to Hindi | (05) |
| IV Translation of 05 Words from Hindi to English | (2 ^{1/2}) |
| from English to Hindi | (2 ^{1/2}) |

Unit B: Grammar and Usage (25 marks)
(10 periods)

- | | |
|--|------|
| I Elements of a Sentence | (05) |
| II Transformation of Sentences | (05) |
| a. Direct and Indirect Narration | |
| b. Active and Passive Voice | |
| II Modals | (05) |
| III Tense | (05) |
| IV Punctuation of a Short Passage with 10 Punctuation Marks
(As discussed in Quirk and Greenbaum) | (05) |

Unit C: Comprehension (25 marks)

Following Essays and Stories in *Essential Language Skills* revised edition compiled by Macmillan for University of Rajasthan General English B. A. /B. Com./B. Sc.


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Candidates will be required to answer 5 questions out of ten questions from the prescribed texts. Each question will be of two (2) marks. (10)

Sujata Bhatt	Voice of the Unwanted Girl
Ruskin Bond	Night Train for Deoli
M.K. Gandhi	The Birth of Khadi
J.L. Nehru	A Tryst with Destiny
A.P.J. Abdul Kalam	Vision for 2020

The candidates will be required to answer 5 questions from an unseen passage.

(10)

One vocabulary question of 10 words from the given passage.

(5)

Unit D: Compositional Skills
(15 periods)

(30 marks)

I Letters-Formal and Informal	(10)
II CV's Resume and Job Applications and Report	(10)
III Paragraph Writing	(10)

Recommended Reading:

Sasikumar, V., Dutta and Rajeevan, A Course in Listening and Speaking-I Foundation Books. 2005.

Sawhney, Panja and Verma eds. English At the Workplace, Macmillan 2003.

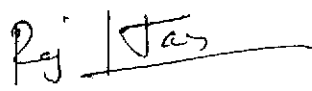
Singh, R.P. Professional Communication. OUP. 2004

Judith Leigh. CVs and Job Applications. OUP. 2004

Arthur Waldhorn and Arthur Zeiger, English Made Simple. Upa and Co.

Gunashekar ed. A Foundation English Course for Undergraduates. Book I, CIEFL, Hyderabad.

Quirk and Greenbaum: A University Grammar of English Longman, 1973


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बी.ए. प्रथम वर्ष -- (कला, विज्ञान एवं वाणिज्य संकाय)
बी.ए./बी.एस.सी./बी.कॉम./आनर्स
सामान्य हिन्दी

पूर्णांक 100

न्यूनतम उत्तीर्णांक 36

नोट : 36 से कम अंक लाने पर छात्रों को उत्तीर्ण नहीं किया जायेगा। इस प्रश्न-पत्र में प्राप्त अंकों को श्रेणी निर्धारण हेतु नहीं जोड़ा जायेगा।

अंक विभाजन -- प्रश्न पत्र में दो भाग होंगे -- 1. साहित्य खण्ड एवं 2. व्याकरण खण्ड। साहित्य खण्ड में दो भाग होंगे -- गद्य भाग एवं पद्य भाग। प्रत्येक खण्ड के लिए 50 अंक निर्धारित हैं।

		50 अंक
क	दो व्याख्या पद्य से (प्रत्येक में विकल्प देना है)	5 x 2 = 10 अंक
ख	दो व्याख्या पद्य से (प्रत्येक में विकल्प देना है)	5 x 2 = 10 अंक
ग	आलोचनात्मक प्रश्न पद्य से (विकल्प देना है)	7 ^{1/2} x 2 = 15 अंक
घ	आलोचनात्मक प्रश्न गद्य से (विकल्प देना है)	7 ^{1/2} x 2 = 15 अंक

साहित्य खण्ड -- 'क' :- गद्य-पद्य की निर्धारित रचनाएँ
गद्य भाग --

- | | | |
|--------------|----|--|
| 1. कहानी | -- | प्रेमचन्द -- बड़े भाई साहब
विजयदान देथा -- सिकंदर और झौआ |
| 2. संस्मरण | -- | कन्हैयालाल मिश्र 'प्रभाकर' -- बंगालिस के ज्वार की उन लहरों में |
| 3. रेखाचित्र | -- | रामवृक्ष बेनीपुरी -- रजिया |
| 4. विज्ञान | -- | गुणाकर मुले -- शनि सबसे सुन्दर ग्रह |
| 5. निबंध | -- | अगरचन्द नाहटा -- राजस्थान की सांस्कृतिक धरोहर |
| 6. व्यंग्य | -- | शरद जोशी -- जीप पर सवार इंसियाँ |
| 7. पर्यावरण | -- | अनुपम मिश्र -- आज भी खरे हैं तालाब |

पद्य भाग :- (कबीर ग्रंथावली से सं. -- श्यामसुंदर दास)

- | | | |
|--|----|---|
| 1. कबीर | -- | साखी सं. -- गुरुदेव को अंग -- 7,12,26,30
सुमरन को अंग -- 10,17,24,26
विरह को अंग -- 2,6,10,19 |
| 2. सूरदास | -- | सूरदास सूरसागर सागर
सं. डॉ. धीरेन्द्र वर्मा
विनय भक्ति पद सं. -- 21,33
गोकुल लीला पद सं. -- 55,58
वृंदावन लीला पद सं. -- 10,28
उद्धव संदेश पद सं. -- 77,79 |
| 3. तुलसीदास | -- | विनय पत्रिका, गीताप्रेस, गोरखपुर पद सं. -- 87,89,90,156,158 |
| 4. मीरा | -- | पदावली सं. -- नरोत्तम स्वामी पद सं. -- 1,3,4,5,10 |
| 5. रहीम
(दस दोहे) | -- | रहीम ग्रंथावली संपादक विद्यानिवास मिश्र, गोविन्द रजनीश
(दोहावली) 186,191,211,212,214,218,219,220,223,224 |
| 6. मैथिलीशरण गुप्त | -- | गनुभ्यता, हम राज्य लिए मरते हैं (गीत-साकेत के नवम सर्ग से) |
| 7. सुमित्रानंदन पंत | -- | नौका विहार |
| 8. सूर्यकान्त त्रिपाठी निराला | -- | वह तोड़ती पत्थर |
| 9. सावित्रीदास हीरानंद वात्स्यायन अज्ञेय | -- | हिरोशिमा |
| 10. रामधारी सिंह दिनकर | -- | विषयगा, समर शब्द है |

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खण्ड - 'ख'

व्याकरण/व्यावहारिक हिन्दी खण्ड

50 अंक

1. निबन्ध लेखन	-	शब्द सीमा 300 शब्द	8 अंक
2. कार्यालयी लेख	-	शासकीय - अर्द्धशासकीय पत्र, कार्यालय ज्ञापन, विज्ञप्ति एवं कार्यालय आदेश, अधिसूचना, पृष्ठांकन 4 x 2 =	8 अंक
3. संक्षेपण	-		4 अंक
4. पल्लवन	-		5 अंक
5. शब्द निर्माण प्रविधि	-	उपसर्ग, प्रत्यय, संधि, समास	5 अंक
6. शब्द शुद्धि एवं वाक्य शुद्धि	-		5 अंक
7. मुहावरे एवं लोकोक्ति	-		5 अंक
8. पारिभाषिक शब्दावली	-		5 अंक
9. शब्द के प्रकार	-	संज्ञा, सर्वनाम, विशेषण, क्रिया एवं क्रिया विशेषण	5 अंक

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ENVIRONMENTAL STUDIES

Examination

Scheme of examination

Time	Min Marks	Max.Marks
3 hrs	36	100

This paper will contain 100 multiple choice questions. Each question will carry 1 mark. Students should be encouraged to visit places of Environmental Importance including Natural and Manmade Habitat.

Note:

1. The marks secured in this paper shall not be counted in awarding the division to a candidate.
2. The candidates will have to clear this compulsory paper in three chances.
3. Non-appearing or absence in the examination of compulsory paper will be counted as a chance.


Unit.1: The Multidisciplinary nature of environmental studies

Definition, scope and importance- Relationship between Environmental Studies and other branches of science and social sciences.

Need for Environmental awareness, Environmental education in present day context.

Unit.2: Natural Resources and Challenges

- a. Natural resources and associated problems, Classification of resources: renewable resources, non renewable resources, classes of earth resources, resources regions: Definition and criteria, resource conservation.
- b. Forest resources: Use and over- exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people.
- c. Water resources: Use and over-utilization of surface and groundwater, floods, drought conflicts over water, dams-benefits and problems.
- d. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- e. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, case studies
- f. Energy resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies.
- g. Land resources: Land as a resource, Land degradation man induced Landslides, soil erosion and desertification.


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- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

Unit 3: Ecosystems, Concepts, Structure, Functions and Types

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types characteristics features, structure and function of the following ecosystem:
 - a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
 - b. Grassland ecosystem and Their Types
 - c. Desert ecosystem with emphasis on Thar Desert
 - d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lands


Unit 4: Biodiversity and its conservation

- Introduction –Definition, genetic, species and ecosystem diversity
- Biogeographically classification of India
- Value of biodiversity :consumptive use, productive use, social ethical., aesthetic and option values
- Biodiversity at global, National and local level
- India as a mega-diversity nation
- Hot-spot of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts
- Endangered, Threatened and endemic species of India
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity
- Red Data Book

Unit 5 : Environmental Pollution and Control Measures

Definition

- Causes, effects and control measures of:
 - a) Air Pollution
 - b) Water Pollution
 - c) Soil Pollution
 - d) Marine Pollution


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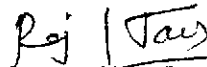
- e) Noise Pollution
- f) Thermal Pollution
- g) Nuclear Hazards
 - Solid waste management: Causes, effects and control measures of urban and industrial wastes
 - Role of an individual in prevention of pollution
 - Pollution case studies
 - Disaster management: floods earthquake, cyclone and landslides

Unit 6 : Social issues, Environment, Laws and Sustainability

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies
- Environmental ethics: Issues and possible solution.
- Climate change, global warming, acid rain ozone layer depletion, nuclear accidents and holocaust. Case studies
- Wasteland reclamation.
- Consumerism and waste product.
- Environmental Protection Act.
- Air (Prevention and Control of Pollution) Act
- Wild life protection Act
- Forest Conservation Act
- Biological Diversity Act
- Issues involved in enforcement of environmental legislation
- Public Awareness.

Unit 7: Human Population and the Environment

- Population growth, variation among nations
- Population explosion-Family Welfare Programme
- Environment and Human health
- Human Rights
- Value Education
- HIV/AIDS
- Women and Child Welfare
- Role of Information Technology in Environment and human health
- Case Studies


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Suggested Readings:-

1. Diwan A.P. and Arora D.K.1995. Human Ecology Anmol Publication Pvt.Ltd.,New Delhi.
2. Dubey, R.M.1992. Human Ecology and Environmental Education,Chaug Publications,Allahabad.
3. Goudie,Andrew.The Human Impact.
4. Husain Maxia.1994 Human Geography,Rawat Publication,Jaipur.
5. Johnston, R.J.Ed.1986 Dictionary of Human geography,National Publication,New Delhi.
6. Malik,S.L.and Bhattacharya D.K.1986. Aspects of Human Ecology,Northern Book Center,New Delhi.
7. Mishra,R.P and Bhooshan,B.S.1979.Human Settlements in Asia.Public,Polices and programmes Haritage publisher,New Delhi.
8. Nathawat, G.S.1985. Human Ecology,An Indian perspective,Indian Human Ecology Council,Jaipur.
9. Russel, Bartrand, 1976.Impact of Science of society Unwin,Publisher,Indian. (paper back).
10. Sinha Rajiv, 1996.Gloobal Biodiversity Ina.,Shri publication,Jaipur.
11. Sinha Rajiv K., 1994. Development without Desertrction 14.Environmentalist,Jaipur. Sinha Rajiv K., 1996.Environmental Crises and Human at Risk,In A Shri Publication,Jaipur.
12. Smith, Dianne, 1984.Urban Ecology,George Allen,London.
13. Swarnkar, R.C.1985.Indian Tribes.Printwell publisher,Jaipur.
14. Tivy,Joy and O'Hugegreg,1985.Human Impact on the Ecosystem Edinburgh George Allen Boyd.
16. United Nations Development Report, 1996.Human Development Report, 1996.Oxford University Press,Delhi.
17. Vannathony & Rogers Paul, 1974. Human Ecology and World Development,Flehum Press,New York.



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Elementary Computer Applications

Maximum Marks- 100 (Main University Examinations)

Theory : Max. Marks -60

Practical : Max. Marks- 40

Each Candidate has to pass in Theory and Practical Examinations separately.

Question paper for Elementary Computer Applications, (Compulsory paper-common for B.A. / B.Sc./ B.Com. Part-I) be so set that it has 120 multiple choice questions (Bilingual) of ½ marks each. The question paper will be of duration of 2 hours. The examinees will have to give their answers on OMR Sheet only to be provided by the University whose evaluation will be done based on OMR Scanning Technology. Further the practical examination for this paper will be of 40 marks and its duration will be of 2 hours.

Unit - I

Introduction to information technology : Evolution and generation of computers, type of computers, micro, mini, mainframe and super computer. Architecture of a computer system : CPU, ALU, Memory (Ram, Rom families) cache memory, input /output devices, pointing devices.

Concept of Operating system, need types of operating systems. batch, single user, multi - processing, distributed and timeshared operating systems, introduction of Unix, Linux, Windows, Window NT. Programming languages Low level and high level languages, generation of languages, 3 GL and 4 GL languages. Graphic User Interfaces.

Unit - II

Word Processing tool : Introduction, Creating, Saving, Copy, Move and Delete. Checking Spelling and Grammar. Page Layout, interface, toolbars, ruler, menus keyboard shortcut, editing, Text Formatting, insert headers and footers. Bullets and Numbering. Find and Replace etc. Insert Table and Picture, Macro, Mail Merge.

Power Point : Creating and viewing a presentation, managing slide shows navigating through a presentation using hyperlinks, advanced navigation with action setting and action buttons. Organizing formats with Master Slides applying and modifying designs adding graphics, multimedia and special effects.

Unit - III

Electronic Spreadsheet : Worksheet types of create and open a worksheet, Entering data text numbers and formula in a worksheet inserting and deleting cells, cell formatting, inserting rows and columns in a worksheet formatting worksheets. Using various formula and inbuilt function. Update worksheet using special tools like spell check and auto correct setup the page

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and margins of worksheets for printing. Format the data in the worksheet globally or selectively creating charts. Enhance worksheets using charts, multiple worksheets-concepts

Unit - IV

The Internet - History and Functions of the Internet, Working with Internet, Web Browsers, World Wide Web, Uniform Resource Locator and Domain Names, Uses of Internet, Search for Information, Email, Chatting, Instant messenger services, News, Group, Teleconferencing, Video Conferencing, E-Commerce and M-Commerce

Manage an E-mail Account, E-mail Address, configure E-mail Account, log to an E-mail, Receive E-mail, Sending mails, sending files an attachments and Address Book, Downloading Files, online form filling, E-Services - E-Banking and E-Learning.

Unit - V

Social, Ethical and Legal Matters - Effects on the way we: Work Socialise, Operate in other areas, Cyber crime, Prevention of crime, Cyber law: Indian IT Act, Intellectual property, Software piracy, Copyright and Patent, Software licensing, Proprietary software, Free and Open source software.

Network Security - Risk assessment and security measures, Assets and types (data, applications, system and network), Security threats and attacks (passive, active): types and effects (e.g. Identity theft, denial of services, computer virus etc.), Security issues and security measures (Firewalls encryption/decryption), Prevention.

Question Paper pattern for Main University Practical Examination

Max Marks: 40

Practical

The practical exercises will be designed to help in the understanding of concepts of computer and the utilization in the areas outlined in the theory syllabus. The emphasis should be on practical usage rather than on theoretical concepts only.

The practical examination scheme should be as follows

- Three Practical Exercise (including Attendance & Record performance) 30 marks
 - Operating system
 - MS Word
 - MS Excel
 - MS Power Point
 - Internet
- Viva voce 10 marks

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बी.ए. प्रथम वर्ष : प्रारम्भिक हिन्दी

पूर्णांक : 100

अवधि : 3 घण्टे

अंकों का विभाजन

- | | |
|------------------------------|--------|
| 1. पुस्तकों पर आधारित प्रश्न | 50 अंक |
| 2. व्याकरण से संबंधित प्रश्न | 24 अंक |
| 3. रचना से संबंधित प्रश्न | 26 अंक |
| (क) लोकोक्तियों मुहावरों | |
| (ख) पत्र लेखन अथवा निबंध | |

पाठ्यक्रम

1. गद्य संग्रह
2. व्याकरण : शब्द विचार, वाक्य विन्धास, वाक्य खण्ड, पद क्रम का ज्ञान तथा इनमें होने वाली सामान्य त्रुटियों का ज्ञान।
3. (क) मुहावरों एवं लोकोक्तियों का प्रयोग, वाक्यों में रिक्त स्थानों की पूर्ति, सनातन दिखने वाले शब्दों का अर्थ भेद अथवा वाक्यों में प्रयोग
(ख) पत्र लेखन अथवा निबंध

पाठ्य पुस्तकें

1. गद्य-संग्रह-राष्ट्रीय गौरव के चिन्ह- डॉ. हरिकृष्ण देवसरे
प्रकाशक-नेशनल पब्लिशिंग हाउस, नई दिल्ली

व्याकरण एवं रचना

1. आधुनिक हिन्दी व्याकरण तथा रचना - लेखक कृष्ण विकल
प्रकाशक-नेशनल पब्लिशिंग हाउस, नई दिल्ली
2. सुबोध व्याकरण एवं रचना-सम्पादक-व्यथित हृदय-संशोधनकर्ता-डॉ.अम्बा प्रसाद सुनन
प्रकाशक - श्रीराम मेहरा एण्ड कम्पनी, आगरा

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Core Paper - I

101: History of Art & Design (Theory)

Max. M: 100

Min.P. M: 36

Aim

The aim of this unit is to encourage an understanding of the social, psychological, cultural, historical and commercial factors which underpin all visual arts theory and practice across the spectrum of subject specialism's.

Learning outcomes

- Understand influences on art and design activities and outcomes through the interpretation and analysis of information
- Be able to assess, interpret and evaluate information
- Be able to evaluate and present conclusions.

Course content

Unit-I: Influences of Art and Design Movements, Cubism, Dadaism, Surrealism

Unit-II: Abstract Expressionism, Minimalism, Pop Art, Renaissance, Baroque, Bauhaus, Rococo,

Unit-III: Art Nouveau, Futurism, Impressionism and Post Impressionism,

Unit-IV: Arts and Crafts, Gothic, Historical Art and Design Developments,

Unit-V: Contemporary Art and Design Developments.

Reference

1. R. Nath, (1976) History of Decorative Art in Mughal Architecture, Motilal Banarasidas, Delhi.
2. Urevbo, O. Andrew, (1997) Culture and Technology, UNESCO, Paris
3. Bayer, Patricia, (1990) Art Deco Interiors, Thames and Hudson, Delhi
4. Hartt, Frederick, (1989) Art: History of Painting, Sculpture, and Architecture, Prentice Hall, NJ
5. Sivarama Murthy, (1997), Art of India, Harry N Abrams, NY
6. Nath R, (1980), Art of Khajuraho, Abhinav Publications, Delhi.

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Core Paper-2

ID-102: Fundamentals of Design (Practical)

Internal Max. M: 40
Internal Min.P. M: 16
External Max. M: 60
External Min.P. M: 24

Aim

To make students see, make and appreciate the basic design concepts. The first level includes the vocabulary of design and principles of composition. This level includes 3D composition and study of Volumes.

Learning Outcome

- Student will be able to understand basics of design concepts.
- Student will be able to understand design & principles of composition & 3D compositions.

Course Contents

Unit I: Elements of design, Textures and patterns in design,

Unit II: Colour basics, colour theory, colour schemes,

Unit III: Isometry in design,

Unit IV: Nature drawing, Human figure drawing, object drawing,

Unit V: 2D geometry, 2D mark making techniques, 2D visual communication techniques, Use of formal elements in 2D visual communication, 3D geometry, 3D making techniques, Communicating design ideas using 3D making techniques. Use of formal elements in 3D visual communication.

Reference

1. Broomer, Gerald F., (1974), Elements of Design: Space, Davis Publications Inc. Worcester, Massachusetts.
2. Bruce D. Kurty, (1987), Visual imagination- An introduction of Art, Prentice Hall, New Jersey.
3. Hayashi Studio, (1994) Water Colour Rendering, Graphic-Shaw Publishing Co.

4. Richard Rochan, Herald Linton, (1989), Colour in Architectural Illustration, Van Nostrand Reinhold.
5. Robert W. Gill, (1984), Manual of Rendering in pen and ink, Thames and Hudson, London.
6. Wong Wucius, (1977), Principles of Three dimensional Design, Van Nostrand Reinhold, NY.
7. Wong Wucius, (1977), Principles of Two dimensional Design, Van Nostrand Reinhold, NY.
8. Hanlon, Don. (2009), Compositions in Architecture, John Wiley & Sons.
9. Saraswati Baidyanath, (2001), The Nature of Man and Culture: Alternative Paradigms in Anthropology, Indira Gandhi National Centre for the Arts.
10. Hartt, Fredrick, (1976) Art: A History Painting, Sculpture and Architecture, HN Abrams, NY
11. Brown Tim, (2009), Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation, Harper Collins.

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Core Paper-3

ID-103: Visualization & Drawing Techniques (Practical)

Internal Max. M: 40
Internal Min.P. M: 16
External Max. M: 60
External Min P. M: 24

Aim

The aim of this course is to understand the method of visualizing and drawing from nature, cast and product drawing.

Learning Outcome

- Student will be able to understand the methods & techniques of visualization & drawing.
- The student would be exposed to appreciation of drawing different products.

Course Contents

Understand the techniques of drawing such as pen and ink sketching; pencil sketching; pencil colour sketching etc., for drawings from nature, cast and product drawings; method of representing positive and negative spaces; light and dark tones etc.

Reference

- Broome F. Gerald, (1974), Elements of Design, Space, Davis Publications Inc., Worcester, Massachusetts.
- Dodson B., (1990), Keys to Drawing, North Light Publications, Cincinnati.
- Mark W., Mary W. (1999), Drawing for Absolute Beginner, F&W Publications, Cincinnati.
- Davis M.L. (1996), Visual Design in Dress, Prentice Hall, Canada.
- Graves M., (1951). The Art of Colour and Design, McGraw-Hill Book Company.

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Core Paper-4

ID-104: Material Studies (Practical)

Internal Max. M: 40
Internal Min.P. M: 16
External Max. M: 60
External Min.P. M: 24

Aim

Learners will be introduced to a brief history and introduction to 3D materials, tools and processes and made aware of the range of possibilities of different materials in their 2D and 3D application to design. This may be done through lectures / PPT presentations / swatches/ samples.

Learning Outcome

- Student will be able to understand the properties of different material.
- Student will be able to understand the techniques, process terminology and tools of materials.

Course Contents

Material exposure could range from paper, fabrics, glass, metals, metal foils, plastics, acrylic, rubber, wood- natural/manmade, foam, Styrofoam, sponge, leather, Rexene, clay, Plaster of Paris, adhesives etc.

Techniques, Process terminology and Tools can cover a range of methods like – cutting, sawing, carving, cutting, welding, drilling, joinery, polishing, constructions, mould making, modelling, casting, gluing, stitching, embroidery, weaving, tying, dying, surface embellishments and manual and mechanical tools used for such explorations.

Reference

- Building material Author Mr. G. C. Sahu & Joy Gopal.
- Building material Author Bhavi Kitti.
- Weaving reference books of Textile Technology
- Maria Dolors Ros Frijola, The Art & Craft of Ceramics

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Core Paper -5

DD-105: Design Principles (Practical)

Internal Max. M: 40
Internal Min. P.M: 16
External Max. M: 60
External Min.P. M: 24

Aim

The aim of this unit is to enable learners to develop knowledge and understanding of the issues that have informed debate on the purposes and processes of design.

Learning outcomes

- Understand the relationship between form and function
- Understand the principles of cultural and contextual association
- Be able to develop concepts through the exploration of materials, techniques and processes
- Be able to develop concepts by the analysis of the needs of end-users.

Unit content

Harmony, Contrast, Proportion, Scale, Rhythm, Balance, Emphasis, study of Artists, study of Architects, study of Designers, Textures and Finishes of Hard Material, Textures and Finishes of Soft Material, Nature Photography, Product Photography, Aesthetics, Signs and Symbols, Packaging, Branding & Copywriting.

Reference

1. Janice Greenberg Ellinwood, (2010) Fashion by Design, Fairchild Publications.
2. L. Borelli, (2007) Fashion Illustration by Fashion Designers Chronicle Books Ltd., US
3. C. Tatham, J. Seaman, (2007) Fashion Design Drawing Course, Barron's Educational Series.
4. Karl Aspeclund, (2010) The Design Process, Fairchild Publications.
5. Tracy Jennings, (2011) Creativity in Fashion Design: An Inspiration Workbook, Fairchild Publications.
6. GJ. Sumathi (2002) Elements of Fashion and Apparel Design, New Age International Publications.

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Core Paper-6

ID-106: Design Method (Practical)

Internal Max. M: 40
Internal Min. P.M: 16
External Max. M: 60
External Min. P. M: 24

Aim

This unit aims to give learners opportunities to develop skills and knowledge in the development of new products or services in design pathways.

Learning outcomes

- 1 Know the phases of the design development cycle
- 2 Be able to plan a project using the design development cycle
- 3 Be able to use imagination and innovation in the development of a product
- 4 Be able to propose design improvements to the production process.

Unit content

Writing Design Brief, Developing Ideas, developing through Experimentation, Reviewing and Evaluating Ideas in Progress, Specialist Materials, Equipment's and Techniques, Presenting Work, Developmental Work, Strength and Weakness, Researching on Ideas, Ways of Gathering Ideas, Mind Mapping, Mood Boards, Recording Ideas for the Development Stage, Using Planning Skills, Prototyping, Purpose of an Art and Design Portfolio, Different types of Portfolio, present an art and design portfolio.

Reference

- How Fashion Works by Gavin Waddell Blackwell
- Francis D. Ching – Design Drawing Publisher Wiley
- Thomas E. French- Graphics Science & Design

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(YEAR-2)
Distribution of Marks
B. Des -Interior Design Part-II

Subject Theory	Max Marks		Min. Pass Marks		Duration of Exam	Teaching Hours
ID-201: Theory of Materials	100		36		3 Hrs.	100
ID-202: Basic Construction	100		36		3 Hrs.	100
Subject –Practical	Internal Max.M.	External Max. M.	Internal Min.P.M.	External Min.P. M.		
ID-203: Basic Drawing & Drafting	40	60	15	24	6 Hrs.	100
ID-204: Basic Construction	20	30	08	12	4 Hrs.	50
ID-205: Interior Construction	40	60	16	24	6 Hrs.	100
ID-206: Interior Design–I - Residential Design	40	60	16	24	6 Hrs.	100
ID-207: Computer Aided Design (Auto CAD)	20	30	08	12	4 Hrs.	50

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Core Paper – 1

ID-201: Theory of Materials (Theory)

Max. M: 100
Min.P. M.: 36

Aim

This unit intends to equip the students with through knowledge of materials being used for interior projects and works. Particularly students will get knowledge and useful information about materials characteristics and their appropriateness of use. Emphasis should be mainly on environment friendly materials and their applications. Use of recycled materials and reuse of materials shall be encouraged. This unit intends to equip the students with students with through knowledge of materials being used for interior projects and works. Particularly students will get knowledge and useful information about materials characteristics and their appropriateness of use.

Unit Contents

Unit I:

A. CLAY

1. Bricks
 - a) Types, Qualities & Properties
 - b) Manufacturing (not for examination)
 - c) Application
2. Terracotta
 - a) Types, Qualities & Properties
 - b) Manufacturing (not for examination)
 - a) Application
3. Ceramic
 - a) Types, Qualities & Properties
 - b) Manufacturing (not for examination)
 - b) Application

Unit II:

B. STONES

- a) Types, Qualities & Properties
- b) Processing
- c) Application

C. MORTAR LIME CEMENT

- a) Types, Qualities & Properties
- b) Processing
- c) Application (like Terrazzo, Mosaic, Cast Stone etc)

D. Concrete

- a) Types of concrete
- b) Types of coping/ shapes of coping
- c) Concrete blocks
- d) RCC – Introduction & Concept for lintels & chajja

Unit III:

E. TIMBER

- i. Types of Timber

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- Used for furniture or interiors
- Used for construction / structure
- ii. Properties & defects in timbers
- iii. Introduction & purpose of seasoning
- iv. Timber Product
 - Plywood, Blok --Board, Particie Board, MDF, Fire Boards
- v. Laminates – types & textures, thickness etc.

Fibre Glass

- a) Qualities, Properties & Types
- b) Manufacturing
- c) Processing & Application

Unit IV:

G. FIXTURES & FINISHES

- a) Paints
- b) Polishes
- c) Textured finishes
- d) Wall Papers
- e) Cladding materials
- f) Types of plastering & finishes
- g) Upholstery, fabrics, curtain, venetian blinds, vertical blinds
- h) Carpets, Vinyl flooring, rubber, plastic, nylon etc

H. Metals

Ferrous & Non-ferrous metals like Aluminium, Brass, Copper, Mild Steel, Galvanized Iron, Stainless Steel etc.

- a) Quality, Properties & Types
- b) Surface treatments like anodizing, powder coating, specialized coating etc.
- c) Applications

Unit V:

I. Artificial Materials

- a) Acrylic plastic, polycarbonate, polyurethane
- b) Artificial woods, Eco friendly and Recycled materials

J. Materials for Lighting

- a) Types for wires, conduits, distribution boards, mini circuit breakers earth leaked circuits breakers specifications
- b) Light fittings
- c) Decorative fittings
- d) Special effect lightings like neon, fibre optics, flash etc.

K. Materials Specialty

- a) Water Proofing
- b) Fire Fighting & Fire Prevention
- c) Acoustical
- d) Thermal Insulation
- e) Light weight construction materials / reuse of materials

L. Materials for Sanitation and Plumbing

- a) Different Plumbing Materials
 - Properties, Uses, Fittings & Fixture Applications
- b) Different Sanitation Materials

Learning outcome

Collection of actual materials with study and through observation, understanding their properties, characteristic and strength. Knowledge and skills acquisition by conducting seminar on use of such materials and their application techniques.

The Implementation Strategy will consist of various methods like problem identification and alternative solution, self-study, demonstration and actual site visits with discussion. It will further include design consideration of various furniture units to be given importance on.

- a) Study of subject and of materials museum and use of the same in the practice, preferably during actual site visits.
- b) Conduction carpentry workshops for understanding detailed and micro construction of furniture with various alternative materials.
- c) Demonstrating carpentry joinery through models
- d) Collecting and studying for deeper understanding of the details of interior construction related various hardware and their proper applications with uses.
- e) Market survey, study and understanding of construction techniques and practice in interior design.

Reference

- Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
- Moxley, R - Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar, T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
- Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1990.
- Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.
- Bindia, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of
- Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.
- S.K.Duggal, Building Materials, Illustrated, A.A. Balkema, 1998

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Core Paper-2

ID-262: Basic Construction (Theory & Practical)

Max. M: 100
Min.P. M.: 36

Aim

This unit intends to equip the students with through knowledge of materials along with techniques of their use in construction of various furniture items and interior elements and structures. Through this subject, the students will develop an insight in to the knowledge and skill required for interior construction practices.

Unit Contents

Unit I:

A. MASONRY

1. Brick Masonry
Different types of Bonds in various thickness / Corners
2. Stone Masonry
 - a) Various types of stone masonry
 - b) Dry Rubbled
 - c) Random Rubbled
 - d) Ashlar fine
 - e) Ashlar chamfered

Unit II:

Structures – framed and load bearing structures

- a) Basic concept, differentiations and limitation for construction special care to be taken while demolition (without damaging existing structure)
- b) Introduction of foundation

Unit III

B. Opening in Masonry work

Lintels – various types

- a) Timbers
- b) Brick
- c) Stone
- d) Steel
- e) RCC (lintels with projections chajja)

Unit IV:

Arches in bricks & Stones – Various shapes and section Practice oriented exercise

Unit V:

C. Joinery Details

Timber Construction – with consideration of environment

- i. Various joints in Timber and their applications
- ii. Introduction to various fasteners: nails, screws, nuts and bolts rivets etc.
- iii. Various methods of fastening: welding, brazing, gluing & pasting etc.

Learning outcome

The Implementation Strategy will consist of various methods like problem identification and alternative solution, self-study, demonstration and actual site visits with discussion. It will further include design consideration of various furniture units to be given importance on.

- a) Study of subject and of materials museum and use of the same in the practice, preferably during actual site visits.
- b) Conducting carpentry workshops for understanding detailed and micro construction of furniture with various alternative materials.
- c) Demonstrating carpentry joinery through models.
- d) Collecting and studying for deeper understanding of the details of interior construction related various hardware and their proper applications with uses.
- e) Market survey, study and understanding of construction techniques and practice in interior design.

Reference

- Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
- Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
- Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1990.
- Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
- Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.

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Core Paper – 3

ID-203: Basic Drawing & Drafting (Practical)

Internal Max. M: 40
Internal Min.P. M.: 16
External Max. M: 60
External Min M: 24

Aim

This unit intends to equip the students with concept and principles of Basic Design pertaining to Interiors. It will develop the skills in elements of design, colour, texture, anthropometrics, planning of residences, which are required in planning of the interior of residences.

This unit intends to equip the students with through knowledge of various projection drawing to scale including various kinds of view and perspectives. These Graphics concepts and Perspectives assists designer the designer in better visualization and transferring his/her imagination on the paper and then finally to field practice.

The subject intends to equip the students with through knowledge of various projection drawings to scale including various kinds of view and perspectives. These Graphics concepts and Perspectives assists the designer in better visualization and transferring his/her imagination on to the paper and then finally to field practice.

Unit Contents

- Introduction & Importance of Interior Design
- Principles of Design
 - Structural Design, Decorative design with characteristics and examples
 - Symmetry, Balance, Harmony, Scale & Proportions, Rhythm, Colour, Emphasis etc
- Elements of Design
 - Line, Form, Texture, Light, Space, Pattern, Colour
- Drawing Presentation
 - Presentation of various Furniture items, including plants in Plan & Elevation
- Presentation Techniques
 - Pencil Rendering
 - Colour Rendering
 - Plain
 - Pencil (B&W)
 - Pen & Ink
 - Colour Pencil
 - Water Colour
 - Photo / Fuji Colour
- Ergonomics & Anthropometrics
 - Introduction to Ergonomics
 - Introduction to Anthropometrics
- Study of lines
- Study of surfaces
- Study of volumes with various gradation
- Lettering technique
- Solid Geometry
 - Cube

- Rectangle
- Cone
- Prism etc.
- Pyramids
- Polygon
- Tetrahedrons
- Scale Drawing
 - Use of scales & proportions
 - Measure drawing
- Study of orthographic projections
 - Plans
 - Elevations
 - Sections
- Views
 - Isometric view
 - Axonometric view
- Perspective View
 - One Point (measuring point method)
 - Two Point (measuring method)

Learning Outcome

- a) Assignment based practice reading for interpretation and presentation with proper/ appropriate scale.
- b) Critical observation and study of presentation by means of various rendering techniques of various elements in Interior Design
- c) Study of light effects in design elements and presentation of the same
- d) Study of textures and compositions and present the same with technique of drawing.
- e) Visualization of 3 dimensions and appropriate presentation of the same with the new methodology through presentation techniques
- f) Preparation of 3D models with proportions and to suit requirements.
- g) The implementation strategies will include critical study of photographs, self-search, case studies, and evaluation of articles and problem solving through juries.
- h) Photographs from the magazines in respect of Interior, Identifying the various elements there in, with the name.
- i) Appreciations of photographs of Interiors from the magazines related to art forms and giving reasons regarding the emphasis on certain elements through their sizes, shape, form, colour, textures etc. along with the discussion.
- j) Study of articles from the magazine with individual remarks / opinions regarding the same or rewriting independently articles.
- k) Study of anthropometrics data from books, chart or actual design related items separately.
- l) Regarding the project studies, case studies of various related topics for interiors will be used. Presentation of data collected will be done by means of seminars/ visits / books/ visuals. Motivation of inspiration through the works of renowned designers and architects. Critical observation of interior projects for their merits and demerits by means of reading, study of drawings, interpretation and discussion.
- m) Assignment based practice reading for interpretation and presentation with proper / appropriate scale.
- n) Critical observation and study of presentation by means of various rendering techniques of various elements in Interior Design

- o) Study of light effects in design elements and presentation of the same
- p) Study of textures and compositions and present the same with technique of drawing.
- q) Visualization of 3 dimensions and appropriate presentation of the same with the new methodology through presentation techniques
- r) Preparation of 3D models with proportions and to suit requirements.

Reference

- Stephen Kliment, Architectural Sketching and Rendering: Techniques for Designers and Artists, Watson Guptill, 1984.
- Ivo.D. Drpic, Sketching and Rendering of Interior Space, Watson- Guptill, 1988.
- Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, Wiley publishers, 2007
- Mogali Delgade Yanes and Ernest Redondo Dominquez, Freehand drawing for Architects and Interior Designers, ww.Norton & co., 2005
- Francis D.Ching, Design Drawing, Wiley publishers
- Moris, I.H. Geometrical Drawing for Art Students.
- Thomas, E. French, Graphics Science and Design, New York: MC Graw Hill.
- Nichols, T.B. and Keep, Norman. Geometry of Construction, 3rd ed. Cleaver – Hume Press Ltd., London, 1959.
- Bhatt, N.D. and Panchal V.M. Engineering Drawing: Plane and Solid Geometry, 42nd ed. Charotar Pub., Anand, 2000.
- Gill, P.S.T.B. of Geometrical Drawing, 3rd ed. Dewan Suhil Kumar kataria, Ludhiana, 1986.
- Shah, M.G., Kale, C.M. and Patki, S.Y. Building Drawing: with an integrated approach to built environment, 7th ed. Tata Mc Graw Hill Pub., Delhi, 2000.
- Bies, D. John. Architectural Drafting: Structure and Environment Bobbs – Merril Educational Pub., Indianapolis.
- Nelson, A. John. H.B. of Architectural and Civil Drafting, Van Nostrand Reinhold, New York, 1983.
- Francis D. Ching – Architectural Graphics, Wiley publishers, 2002
- Ching, Francis D.K. Architecture Form, space, and Order, 2nd ed. Van Nostrand Reinhold, New York, 1996.
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Raj Vas
Dy. Registrar (Acad.)
University of Rajasthan
JAIPUR
W

ID-204: Basic Construction (Practical)

Internal Max. M: 26
Internal Min.P. M.: 08
External Max. M: 30
External Min M: 12

Aim

This unit intends to equip the students with through knowledge of materials along with techniques of their use in construction of various furniture items and interior elements and structures. Through this subject, the students will develop an insight in to the knowledge and skills required for interior construction practices.

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Unit Contents

Unit I:

A. MASONRY

3. Brick Masonry

Different types of Bonds in various thickness / Corners

4. Stone Masonry

f) Various types of stone masonry

g) Dry Rubbed

h) Random Rubbed

i) Ashlar fine

j) Ashlar chamfered

Unit II:

Structures -framed and load bearing Structures

c) Basic concept., differentiations and limitation for construction special care to betaken while demolition (without damaging existing structure)

d) Introduction of foundation

Unit- III

B. Opening in Masonry work

e) Lintels - various types

f) Timbers

g) Brick

h) Steel

i) Stone

j) RCC (lintels with projections chajja)

Unit-IV

Bricks & Stones- various shapes and section, practice & exercises

Raj Vas
Dy. Registrar (Acad.)
University of Rajasthan
JAIPUR

