University of Rajasthan
Jaipur

SYLLABUS

Scheme of Examination and Course of Study

FACULTY OF SCIENCE

B.Sc. (HOME SCIENCE)

PART-I Examination, 2019
(10+2+3 Pattern)

Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR
(10+2+3 Pattern)

SCHEME OF EXAMINATION

The number of papers and the maximum marks for each paper together with the maximum marks required for a pass course are shown in the scheme of examination against each subject separately. It will be necessary for a candidate to pass in theory as well as practical part of a subject paper, wherever prescribed, separately. Classification of successful candidates shall be as follows:

First Division 60% of the aggregate marks prescribed in honors and subsidiary subjects of Pt.I, Pt.II and Pt.III examination taken together.

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All the rest will be declared to have passed the examination if they obtain the minimum pass marks viz. 36% in each paper. No division shall be awarded at the Pt.I and Pt.II examination.

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Girl Candidates who have passed 12th class or equivalent examination of (10+2) scheme, with at least 50% marks in aggregate are eligible for admission to B.Sc (Home Science) course (Part- I).

The theory examination paper will consist of three parts:

1. **Part I** - will comprise of 10 very short answer questions of 2 marks each. The answer to each question must be within the limit of 20-40 words.
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Distribution of papers

The candidates shall be required to offer all the papers under the Heading ‘qualifying papers’. The marks of papers for qualifying papers’ shall not reckon towards division. The candidates are required to pass in the theory as well as practicals, separately.

(a) (i) Foreign nationals’ and (ii) Indian nationals coming back from foreign countries who had domiciled there earlier, and have migrated to join the course may be allowed to offer the special paper on elementary ‘Hindi’ or ‘History of Indian Civilization’ on lieu of the compulsory paper of General Hindi.

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Dy. Registrar
(Academic)
University of Rajasthan
## Scheme for B.Sc. Home Science Part I

<table>
<thead>
<tr>
<th>Paper</th>
<th>Subjects</th>
<th>Duration of Exam</th>
<th>Max Marks</th>
<th>Min Marks</th>
<th>No. of Hr/wk</th>
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<td>Introduction to Foods (Theory)IV</td>
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<td>100</td>
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Dy. Registrar
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सामान्य हिंदी

पृष्ठक 100
समय 3 घंटे
न्यूनतम उत्तरकार 36

नोट : 36 से कम अंक अथवा प्रश्नों को उत्तर नहीं किया जायेगा। इस प्रत्येक पत्र में प्रश्नों को संख्यात्मक ढंग से लिखा जायेगा।

अंक विभाजन—पत्र 1 में 10 अंक होंगे—1. साहित्य खण्ड तथा 2. व्याकरण खण्ड।
साहित्य खण्ड में 10 अंक होंगे—गद्य भाग एवं पद्य भाग। प्रत्येक भाग के लिए 5 अंक निर्धारित है।
इस प्रकार साहित्य खण्ड कुल 52 अंकों का होगा जिसमें अंकों का विभाजन निम्न प्रकार का होगा—

क) गद्य भाग से दो व्याख्याएँ, प्रत्येक 6 अंक — 12 अंक
(ख) गद्य भाग पर दो प्रश्न, प्रत्येक 7 अंक — 14 अंक
(ग) पद्य भाग से दो उत्तर, प्रत्येक 6 अंक — 12 अंक
(घ) पद्य भाग पर दो प्रश्न, प्रत्येक 7 अंक — 14 अंक

व्याकरण खण्ड कुल 38 अंकों का होगा जिसमें अंकों का विभाजन निम्न प्रकार होगा—

(i) विवेचन — 12 अंक
(ii) सक्षरण — 6 अंक
(iii) तौरात्म्य, सुविदा राजस्थानी की एक कहावत — 4 अंक
(iv) शुद्धिकरण — 8 अंक
(v) परिभाषण शब्द — 4 अंक
(vi) पत्र— 4 अंक
(vii) पत्र— 4 अंक
(viii) पत्र— 8 अंक

1 साहित्य खण्ड—गद्य-पद्य का निर्धारित रचनाएं।

(i) गद्य भाग—निम्नान्तित पाठ निर्धारित हैं—
1. एक दृष्टि—बाल मुकुट गुप्त—निबंध (व्याख्या विनोद)
2. शिल्प के पूर्व—हजार दीविदेश—ललित निबंध
3. हरी हरी दुहे और लालचा क्रोध—कु.ना. राय—ललित निबंध
4. सितना बाल—पहाड़ी वर्षा—रेखाचित्र
5. महाभारत से नवी पताका—भोजलाल वेगड़—भाषा वृत्तत
6. इस्पेक्टर मातादीन चंद पर—हीरासंकर परसार—व्याख्या
7. अजले के मुसाहिब—बिजयदास देश—कहानी
8. मे तो मैं—कल्यंक्ता लाल संदर्भ—संगीत जीवन—दिनेश राय—वैज्ञानिक निबंध
9. वनवास से भिड़ंत—गांधी जी की आत्मकथा से।

(ii) पद्य भाग—निम्नान्तित कविताएं निर्धारित हैं—
1. गीताधिनोपाय गुप्त—भूलोक का गीत—अमल अभिमान में (भारत-भारती से)
2. मुम्बईनेन्द्र पंड—बापू तथा प्रथम रश्मि
3. सूर्यकंत ब्रह्मचारी निहाला—जानो फिर एक बार तथा दोबारा पत्थर
4. गुरुभारी सिख दिनकर—हिमायल के प्रति तथा भोजपुर्ख
5 हरिवंश गाय बच्चन-पथ को पहचान तथा ताहरों में निमंत्रण
6 चेतातात्य अग्रवाल-जब जब मैंने उसको देखा तथा यह भरती उस किसान को
7. युभद्रा कुमारी चौहान-आँसी को रानी तथा प्रभु तुम मेरे मन की जानो
8. भजनी प्रसाद मिश्र-गीतफरोश तथा सतपुष्पा के घने अंगल
9. नागाजुन-कालिदास के प्रति तथा प्रेत का बयान
10. ताम्रपक्ष बांधी-आ रे आ बादल तथा प्राणों में यदि पाहून होते
2. व्याकरण खण्ड-निबन्ध, संक्षेपण, फलावन, पारंपरिक शब्दावली, (मानवी, बिजनी और वाणिज्य से सम्बन्धित), लोकोकालिता, युद्धवरे, शुद्रीकरण, जन-जन्त, प्रतिवेदन, उपसंग्रह, प्रती, पर्याय, बिलांग, अनेकार्थी शब्द, समश्रुत और अनेक शब्दों के लिए एक शब्द।

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GENERAL ENGLISH
ESSENTIAL LANGUAGE SKILLS
Max. Marks 100 Duration 3 hrs. Min. 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:

All questions will be compulsory. Questions will be set covering all the sections of the units with scope for internal choice.

Unit A : Phonetics and Vocabulary (20 marks) (10 periods)
   I. Transcription of Phonetic Symbols (05)
   II. Word Stress (05)
   III. Synonyms and Antonyms (05)
   IV. Word formation - Prefix, Suffix (05)

Unit B : Grammar and Usage (20 marks) (10 periods)
   I. Transformation of Sentences (05)
      1. Direct and Indirect Narration
      2. Active and Passive Voice
      3. Interchange of Degrees of Comparison
   II. Modals (05)
   III. Sequence of Tenses (05)
   IV. Elements of a Clause (05)
      (as discussed in Quirk and Greenbaum)
Unit C: Comprehension (30 marks) (25 periods)

Following texts to be compiled by Macmillan in the form of a book for the University of Rajasthan.

William Blake The Little Black Boy
Sujata Bhatt Voice of the Unwanted Girl
Lewis Carroll A Mad Tea Party
Ruskin Bond Night Train for Deoli
M.K. Gandhi The Birth of Khadi
J.L. Nehru A Tryst with Destiny
Martin L. King Jr. I have a Dream
A.P.J. Abdul Kalam Vision for 2020

The No. of questions must not exceed ten

In Unit C: Comprehension, there will be internal choice, one out of two passages. Five questions to be answered out of eight short answer question of 2 Marks each based one any one of the two passages from the prescribed text.

Unit D: Compositional Skills (30 marks) (15 periods)

I. Letters- Formal and Informal (10)
II. CVs and Job Applications (10)
III. Paragraph Writing (10)

Recommended Reading

3. ENVIRONMENTAL STUDIES

Max. Marks 100, 2 Hrs. Duration Min. Pass Marks 36

Paper will have only 100 multiple choice questions to be evaluated or O.M.R. Sheet. These O.M.R. Sheets will be evaluated by authorised Computer firm of the University.

Unit-I: The Multidisciplinary nature of environmental studies

Definition, scope and importance (2 hours)

- Need for public awareness.

Unit 2: Natural Resources

Renewable and non-renewable resources:

Natural resources and associated problems.
(a) Forest resources: Use and over-exploitation, deforestation case studies. Timber extraction, mining, dams and their effects on forest and tribal people.
(b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
(c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
(d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer pesticide problems, water logging, salinity, case studies.
(e) Energy resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, Case studies.
(f) Land resources: Land as a resource, land degradation, man indeed landslides, soil erosion and desertification.

- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles. (12 hours)

Unit 3: Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the following ecosystem:

(1) Forest ecosystem
(2) Grassland ecosystem
(3) Desert ecosystem
(4) Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries) (8 hours)

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, esthetic 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 and endemic species of India.
• Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. (10 hours)

Unit-5 Environmental Pollution
Definition
• Causes, effects and control measures of:
  (a) Air pollution  (b) Water pollution
  (c) Soil pollution  (d) Marine pollution
  (e) Noise pollution  (f) Thermal pollution
  (g) Nuclear hazards
• Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
• Disaster management: floods, earthquake, cyclone and landslides. (10 hours)

Unit-6: Social Issues and the Environment
• 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 solutions.
• Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Caste studies.
• Wasteland reclamation.
- Consumerism and waste product.
- Environmental Protection laws in India.
- Population growth, variation among nations.
- Population explosion-Family Welfare Programme.
- Environment and human health. (8 hours)

References:
2. Bharucha Erach, The Biodiversity of India, Map in Publishing Pvt. Ltd. Ahmedabad-380013, India, Email : Mapincenet, net (R)
7. Down to earth, Centre for Science and Environment (R)
9. Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
18. Survey of the Environment. The Hindu (M)

(M) Magazine
(R) Reference
(TB) Textbook
4. ELEMENTARY COMPUTER APPLICATIONS

Theory : Max. Marks 60
Practical : Max. Marks 40
Workload : Four Periods/Three hours per week

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 \( \frac{1}{2} \) mark each. The question paper will be of the 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 two hours.

The workload for this paper will now be as follows:

Theory Paper : Four Periods/Three Hours per week.
Practical : Three Periods/Two Hours per week.

Unit-I : Introduction to Computers and Related Terminology
(Basic information only).

(a) Hardware : CPU (Motherboard, Microprocessor, The Intel Pentium III, AMD and Cyrix), MMX Technology, System Clock Address Bus, Data Bus (PCI and EISA) Cache Memory, Processing Speed, Expansion Slots (Video Controller, Sound Cards, SCSI, Network Card), Memory-(Unit, RAM, ROM, EDO RAM, SD RAM), Input and Output Devices (Keyboard, The Standard keyboard Layout), Mouse, Printers (Dot matrix, Ink-Jet, Laser-Jet), Microphone, Speakers, Modem, Scanner, Density, Formatting, Boot Record, FAT, Folder Directory), Hard Disk Drive. CD ROM Drive (CD ROM Speeds). CD-R Drive, DVD Rom Drive, Tape Drive.

(c) Communications and Connectivity: Data Communication systems, Data Transmission (Serial, Parallel, bandwidth, Protocols), E-mail, FAX, Voice and Video messaging, Video Conferencing. Online Services, user connection (types), Networking of Computers (Node, Client, Server, LAN, WAN), Using the network, The internet and the Web.

Unit-2: Operating System
(Working knowledge at Common Users Level Only)


Unit-3: Application Software
(Working knowledge at Common Users Level only)


(b) Spreadsheet Program-MS Excel
Entering data, Labels, Values, Dates, Formulas, Cell references, Formats, Functions, Templates, Charts and Maps, Analyzing data in a spreadsheet.

(c) DBMS-Microsoft Access
Database, Entering data into the database, Creating Database tables, editing data. Viewing Records, Sorting records. Querying a database, generating reports.

Unit-4: The Internet and Online Resources
(Working knowledge at Common Users Level Only)

1. How the Internet work, Introduction to TCP/IP, IP and DNS address. Features of the Internet (E-mail, News, Telent, FTP, Chart, Channel, WWW, Online Services Bulletin Board Serv-
necting to a PC to the Internet (Setting Dial up and Internet connection Wizard), Overviews o Internet Explorer 5 and features therein, use of search engines, surfing, creating and Use of E-mail, Awareness about e-commerce and its advantages.

Practical

Max. Marks 40.

Workload: Four Periods/Three hours per week.

Course: Practical Training of Course content of Unit 2, 3 and 4 of Theory syllabus.

The Practical examination will be of two hour duration. It will consist of four small exercises testing the working knowledge of followings each carrying a weight as given below:

1. Course content in Unit 2 of Theory Max. Marks 10
2. Course content in Unit 3 (a) of Theory Max. Marks 10
3. Course content in Unit 3 (b) of Theory Max. Marks 10
4. Course content in Unit 3 (c) of Theory Max. Marks 10
5. Viva-Voce Examination Max. Marks 10

Candidates are required to attempt any three exercises out of above maintain four exercises.
BACHELOR OF SCIENCE – PART I (Home Science)

(10–2–3 Pattern)

SCHEME OF EXAMINATION

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1. Part I - will comprise of 10 very short answer questions of 2 marks each. The answer to each question must be within the limit of 20-40 words.
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University of Rajasthan
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## Scheme for B.Sc. Home Science Part I

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<td>Elementary Computer</td>
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<td>Application Theory (Practical)</td>
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<tr>
<td></td>
<td>Textile &amp; Apparel Designing</td>
<td>3 hrs</td>
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<td></td>
<td>Textile &amp; Apparel Designing (Theory)</td>
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<td>Textile &amp; Apparel Designing (Practical)</td>
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<td></td>
<td>Development Communication</td>
<td>5 hrs</td>
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<td>Development Communication (Theory)</td>
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<td>Development Communication (Practical)</td>
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<td></td>
<td>Foundation of Human Development</td>
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<td></td>
<td>Foundation of Human Development (Theory)</td>
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<td>Foundation of Human Development (Practical)</td>
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<td></td>
<td>Introduction to Foods (Theory)</td>
<td>3 hrs</td>
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<td></td>
<td>Introduction to Foods (Practical)</td>
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<td></td>
<td>Elementary Design in Housing</td>
<td>3 hrs</td>
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<td></td>
<td>Elementary Design in Housing (Theory)</td>
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<td>Elementary Design in Housing (Practical)</td>
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<td>Total</td>
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<td>1150</td>
<td>412</td>
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<td>12-43</td>
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</tbody>
</table>
B.S.C. HOME SCIENCE PART I

TEXTILE & APPAREL DESIGN (THEORY I)

Max Marks: 100 marks
Teaching workload: 4 hours week
Total teaching workload: 96 hours year

Objectives:
1. To teach students the basics of designing
2. To make them learn the application of these to apparels
3. To familiarize them to the rich heritage of woven, printed and embroidered textiles of India
4. To introduce the basics of Fashion

Contents:

<table>
<thead>
<tr>
<th>UNIT</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>• Classification of design : structural and decorative designs as applied to textiles</td>
</tr>
<tr>
<td></td>
<td>• Introduction to Basic designing – Motif and repeat</td>
</tr>
<tr>
<td></td>
<td>• Types of design : Natural , stylised , geometrical and abstract</td>
</tr>
<tr>
<td></td>
<td>• Concept of design</td>
</tr>
<tr>
<td></td>
<td>• Elements of design – line, form, colour and texture</td>
</tr>
<tr>
<td></td>
<td>• Principles of design – balance, proportion, emphasis, rhythm and harmony</td>
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<tr>
<td></td>
<td>• Application of elements and principles of design related to apparel</td>
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<tr>
<td>2.</td>
<td>Study in reference to origin, material used, processing techniques, colours and motifs used Traditional Woven Textiles</td>
</tr>
<tr>
<td></td>
<td>• Bengal – Jamdani, Baluchari</td>
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<td></td>
<td>• Tamil Nadu – Kancheevaram</td>
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<td>• Maharashtra – Panthani</td>
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<td>• Madhya Pradesh – Chanderi</td>
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<td>• Uttar Pradesh – Brocades</td>
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<td>3.</td>
<td>Traditional Dyed Textiles</td>
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<td></td>
<td>• Rajasthan – Bandhani</td>
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<td>• Andhra Pradesh – Ikat</td>
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<td>• Gujarat – Patola</td>
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<tr>
<td>4.</td>
<td>Traditional Painted &amp; Printed textiles</td>
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<tr>
<td></td>
<td>• Andhra Pradesh – Kalamkari – Kalamkari &amp; Masulipatnam</td>
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<td></td>
<td>• Madhya Pradesh – Pichwais</td>
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<td>• Orissa – Patachitra</td>
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<td>• Madhya Pradesh – Sanganer and Bagru</td>
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<td>5.</td>
<td>Traditional Embroideries</td>
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<td></td>
<td>• Jammu &amp; Kashmir – Kashida</td>
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<td></td>
<td>• Gujarat – Kutch</td>
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<td>• Punjab – Phulkari</td>
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<td>• Uttar Pradesh – Chikankari and zardosi</td>
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<td></td>
<td>• Karnataka – Kasuti</td>
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<td></td>
<td>• West Bengal – Kantha</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>UNIT-III</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservation and restoration of textiles</td>
<td></td>
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<tr>
<td>· Special care of textiles</td>
<td>5</td>
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<tr>
<td>8 Fashions</td>
<td>10</td>
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<tr>
<td>· Principles of Fashion</td>
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<tr>
<td>· Theories of Fashion</td>
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<tr>
<td>· Fashion Cycle</td>
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<td>· Factors favouring and retarding Fashion</td>
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<tr>
<td>Fashion Designers and centres</td>
<td>10</td>
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<tr>
<td>· Sources of Fashion</td>
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<tr>
<td>· Fashion Centres</td>
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<td>· Role of Designers</td>
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<tr>
<td>· Indian Designer</td>
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<tr>
<td>Fashion Marketing</td>
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<tr>
<td>· Fashion market &amp; marketing environment</td>
<td>6</td>
</tr>
</tbody>
</table>

References:
5. Mehta, R.J., the Handicrafts and Industrial Arts of India. Taraporewala and sons. Mumbai.
11. Agarwal, O.P. (1977), Care and Presentation of Museum projects – II, NRI.

**TEXTILE & APPAREL DESIGNING (PRACTICAL -I)**

Max Marks: 50 marks
Teaching workload: one practical/week (2 hours/practical)
Total teaching workload: 24 practicals/batch

Objectives:
1. train the students to use the elements of designing
2. make them learn the application of these to apparels in sketching.
3. To impart skill of embroideries of different states of India.

Contents:

<table>
<thead>
<tr>
<th>Practical</th>
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</thead>
</table>

| Introduction to elements of design | 4 |
| Line and form – through drawings |  |
| Colour – colour wheel, grey scale and value scale, intensity scale, colour schemes. |  |

| Preparation of port folio using traditional motifs | 4 |
| Natural |  |
| Stylored |  |
| Abstract |  |

| Prevention – Traditional Embroidery samples | 10 |
| Sash |  |
| Churkulla |  |
| Kashmiri |  |
| Phulkari |  |
| Kantha |  |

| Fashion sketching | 6 |
| Technical drawing of fashion details: sleeves, yoks & necklines, bodices and skirts. |  |
| Designing & Dressing on a croquie |  |
| Formal & Traditional Wear |  |

**Examination Scheme**

Internal – 20 Marks
Major Problem – 20 Marks (Embroidery)
Minor Problem – 10 Marks (Drawing)

**DEVELOPMENT COMMUNICATION AND EXTENSION (THEORY II)**

Max Marks: 100 marks
Teaching workload: 4 hours/week
Total teaching workload: 96 hours/year

**Objectives:**

1. To make the students understand the concept of Extension and its related aspects.
2. To understand the existing support structure for development efforts.
3. To sensitize the students and help them to understand the process of communication and its importance.

<table>
<thead>
<tr>
<th>Unit - I</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Concept of Education, Extension Education, adult education, distance education,</td>
<td>6</td>
</tr>
<tr>
<td>Formal, Non Formal and Informal Education</td>
<td></td>
</tr>
<tr>
<td>2 Concept, Meaning, objectives, Scope, principles and philosophy of Extension Education</td>
<td>12</td>
</tr>
<tr>
<td>3 Earlier extension efforts in India: Pre and Post Independence period</td>
<td>8</td>
</tr>
<tr>
<td>4 Home Science Extension: Concept, Scope and its role in national development</td>
<td>6</td>
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<tr>
<td>5 Extension Worker: Qualities and Role</td>
<td>4</td>
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</table>

**Unit - II**

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<th>Hours</th>
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<td>4</td>
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</table>

[Signature]

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Support structures for extension- Panchayat, Cooperatives, Voluntary organisations (NGO), Women groups, Youth club and KVK

Unit III

1. Communication- Concept, meaning, Purpose, Function and importance
2. Types of Organisational Communication- Oral vs Written, intrapersonal vs interpersonal, Verbal vs Non verbal
4. Ben and Leahter's

Reference:
3. Hussain Institute for non-formal and continuing education.

DEVELOPMENT COMMUNICATION AND EXTENSION (PRACTICAL)

Max Marks: - 50 marks

Teaching workload: one practical/week (2 hours/practical)

Total teaching workload: 24 practicals/batch

Objectives:
1. Develop skills for small group communication skills
2. Skills of self-analysis
3. Intimate, organisations (any Four) and submit report.
• PRSH
• NGO
• Panchayat
• Aanganwari
• Women Organisation’s
• School
• Cooperative
• Youth Club

2. Prepare a resource file and discuss the uses, advantages and limitations, with reference to:
   • Print Media
   • Electronic Media
   • Internet based media

3. Planning and execution of any two small group communication for:
   development of reading, writing and oral skills
   • Meeting
   • Discussion: FGD
   • Debate
   • Workshop

Planning criteria – selection of the topic, formulation of broad outline, specifying the objective, designing and use of graphic media

4. SWOT analysis to know oneself

FOUNDATION OF HUMAN DEVELOPMENT -(THEORY III)

Max Marks: 100 marks
Teaching workload: 4 hours week
Total teaching workload: 96 hours year

OBJECTIVES:
1. To introduce the foundation of human development knowledge and concepts to the students.
2. To familiarize them with basic controversies, themes and theories of human development.

UNIT-I

<table>
<thead>
<tr>
<th>Topic</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Multidisciplinary Approaches to the Study of Human Development.</td>
<td>10</td>
</tr>
<tr>
<td>Scope and Contributions of the Fields of Psychology, Sociology, Anthropology, Medicine, Management and Other Related Fields.</td>
<td>12</td>
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</table>

UNIT-II

<table>
<thead>
<tr>
<th>Topic</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Understanding Life Span Stages of Human Development.</td>
<td>10</td>
</tr>
<tr>
<td>Highlighting Significant Developmental Tasks.</td>
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<tr>
<td>Historical Development of Human Development as a Field of Study.</td>
<td>12</td>
</tr>
<tr>
<td>Role of Heredity and Environment: and Learning and Maturation.</td>
<td>10</td>
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UNIT-III

<table>
<thead>
<tr>
<th>Topic</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Brief introduction to Perspectives and Theories of Human Development.</td>
<td>20</td>
</tr>
</tbody>
</table>
   • Erikson: Psycho- Social Development
   • Freud: Psycho-Sexual Development
   • Piaget: Cognitive Development

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**METHODS OF HUMAN STUDY (PRACTICAL - III)**

Max Marks: 50 marks

Teaching workload: one practical/week (2 hours/practical)

Total teaching workload: 24 practicals/batch

**Objectives:**

1. To introduce methods of Human study to students.
2. To provide the practical experience of applying them in field situations.
3. To expose the students to selected welfare institutions.
4. To learn to understand their strength, weakness and potentials.

**Contents:**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Practical</th>
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<tbody>
<tr>
<td>1. Use of various methods of human study in field: observation, interviews, case studies, field notes, reports, records and ethnography.</td>
<td>6</td>
</tr>
<tr>
<td>2. Pretesting, administration and scoring of any one standardized instruments tests</td>
<td>8</td>
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<tr>
<td>3. Projective techniques of personality assessment.</td>
<td>1</td>
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<tr>
<td>4. Devise insights for self analysis through SWOT, personal narratives, role play exercises for self appraisal.</td>
<td>2</td>
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<tr>
<td>5. To visit selected 4 welfare institutions.</td>
<td>4</td>
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</table>

**Examination Scheme:**

1. Major problem: Use of various method in field/case study 15 marks
2. Major problem: (any one) 10 marks
   a. Description of any one project test: CAT/PF study.
   b. Self analysis/ SWOT
   c. Role play on any current theme.
   d. Analysis of any one welfare institution 5 marks
3. 5 marks
4. 20 marks

**INTRODUCTION TO FOODS (THEORY - IV)**

Max Marks: 100 marks
Teaching workload: 4 hours/week
Total teaching workload: 96 hours/year

Objectives:
This course will enable the students to understand
- The definition, concept and functions of Foods and Nutrition.
- The nutritional composition of various foods products.
- The effect of processing on food products.
- Increase the availability of food by preventing spoilage and through preservation.
- Prevention and various food laws and labelling rules for food safety.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description and concept of foods and nutrition</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Definitions of Food - Physiological, psychological, social.</td>
<td>5</td>
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<tr>
<td></td>
<td>Study of following food groups with respect to their nutritional composition; Effects of heat (dry and moist), acid and alkali.</td>
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<td></td>
<td>Energy, grain foods &amp; cereal products</td>
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<tr>
<td></td>
<td>Structure of wheat &amp; rice</td>
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<td></td>
<td>Nutrition in composition of raw and processed cereal products – flour, grit, semolina, flakes, parched, puffed, fermented, RTE, macroni products.</td>
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<tr>
<td></td>
<td>Effect of heat (dry and moist) on starch and protein of cereals.</td>
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<td></td>
<td>Effect of alkali on cereals.</td>
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<tr>
<td></td>
<td>A brief overview of processing techniques for example – Milling, Parboiling, Malting, Fermentation, Fortification &amp; Enrichment.</td>
<td>10</td>
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</tbody>
</table>

Sugars and sugar Products
- Structure of fructose. | 5
- Effect of heat (dry & moist) of sugar.
- Effect of acid & alkali on sugar.
- Fats and Oils
- Types of fats & oils - biochemical structure also.
- Effect of heat
- Oxidation
- Effect of storage: rancidity

Unit II
Body Building Foods
5. Legumes
- Nutritional composition of pulses and soya products
- A brief overview of processing techniques for example – Milling, Germination.

6. Milk and Milk Products
- Nutritional composition of various types of milk & milk products.
- Types of milk products.
- Effect of heat, acid & alkali.
- A brief overview of processing techniques for example – Pasteurization & Fortification.

7. Meat, Fish, egg and poultry
- Structure of egg.

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- Nutritional composition of meat, fish, egg & poultry.
- Effect of heat on meat & egg.

Proteins Foods
- Nutritional composition of fruits, vegetables & processed products.
- Effect of heat, acids & alkali on fruits & vegetables.

Miscellaneous
- Nutritional composition of tea, coffee, cocoa.

Unit III
10
- Spoilage and Preservation
  - Causes of food spoilage
  - Principles & methods based on principles
  - High temperature – Pasteurization, canning
  - Low temperature – refrigeration, cold storage, freezing
  - Preservatives – chemical
  - High osmotic pressure – salt
  - Dehydration – sun, spray & drum
  - Radiation

   

References:

Introduction to Foods (Practical - IV)
Max Marks: 50 marks
Teaching workload: one practical/week (2 hours/practical)
Total teaching workload: 24 practicals/batch

Contents:

1. Weights & Measures, basic terms used in cookery
   1
2. Methods of Cooking
   1
3. Table settings
   1
4. Visit to Departmental Store & preparation of list to explore various ready to eat, preserved & convenience food items.
   1
5. Food Preparation: understanding the principles involved, nutritional quality and safety
   - Beverages: Tea (hot & iced), Coffee (hot & cold), chaage, lassi, 1
   - Salads, soups, fruit punch (using squashes, fresh fruits).
   1

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• Cereal (breakfast) - chapati, puri (plain, missi), paratha (stuffed, plain), pancakes, bhatura, rice (plain, pulao, sweet), khichdi, dal dhakai, upma, poha, halwa, baati, choorma, mathri (namakpara, snakkarpara), Chow mein, pizza, sandwiches (open, club, cucumber-tomato)
• Legumes & pulses-dal (plain & daal fry), rajma, chhole, dal makhani, kadhi, mangodi, pancake, dahivada, dal pakodi, besanwakodi, sprout chaat, fermented products, sweets (besantaddoo, mohanthal, dal halwa)
• Vegetables - Dry vegetables (salaugobi, methisalu, palaktamaatar), stuffed vegetables (bhindi, capsicum), vegetables with gravy (maatunaalu, malaikofta), gatta, dumaalu, matarpaneer, chilli paneer), based vegetables.
• Fruits, Salads & desserts
• Milk & milk products-paneer, khoa, curd, shrikhand, kheer, custard, lassia, fruit cream
• Meat, fish & poultry preparations.
• Eggs - Boiled, ommelette, fried (half, full), poached.
• Soup-clear & cream including Indian soups-palak, tomato, mixed vegetables, sweet corn, pea soup, lentil, rabri.
• Salads-based: Russian, fruit salad, sprout salad, koshambri, Russian salad, chaat, pasta salad, salad dressings.
• Salad-sutside: kotia, kachori, dosa, idlivadasambhar, khaman, uttapam, tikuchola, pavbhaji, sago khichri, mixed veg cutlets, kheelpuri, haratharakabab, paneer tikka, burger, spring rolls.
• Sweets-sulebi, sandesh, gulabjamun, laddu, coconut barfi, gujiya, petha roll, chhainamurki.

Baked products-demonstration of cakes & biscuits

References:

Examination Scheme:
Internal and records: 20 marks
Planning of two recipes: 10 marks
Preparations and serving of two recipes: 15 marks
Viva voce: 5 marks

ELEMENTARY DESIGN IN HOUSING (THEORY -V)
Max Marks: 100 marks
Teaching workload: 4 hours week
Total teaching workload: 96 hours/year

Objectives:
1. To gain insight into the principles underlying house planning.
2. To develop an insight into land space planning.
Understanding the principles of art and design.

Unit I
Family's housing needs Hours

1. Functions of housing
   - Protective
   - Economic
   - Attraction
   - Social status

2. Factors influencing family housing needs
   - Attributes of family
   - Size and structure
   - Activities and stage of life cycle
   - Living habits etc.

3. Criteria for choosing location and purchase of site for house building
   - Vegetation: type and extent
   - Slope and contour shape
   - Orientation etc.

4. Legal aspects and procedure for
   - Land purchasing
     - Plot
     - Apartment
     - Independent house

5. Construction of house

6. Calculating the cost of housing
   - Cost of land
   - Cost of building materials
   - Cost of labour
   - Cost of supplies, electricity, water, sanitary fitting

7. Types of houses
   - Tenement
   - Apartment
   - Duplex
   - Row houses

UNIT-II
Landscape management

7. Building terminology
   - Layout, building, height of a building, plot or site street or road, 
     signified, building line
   - Sectional plan, licensed architect, set back line, alteration, height of 
     room, balcony, barn
   - Basement, chajja, courtyard, detached building, habitable room, 
     garage, uncovered area, chute, mezzanine floor
   - Built-up, ground floor, floor area ratio, common area, carpet area, 
     sub structure, super structure
   - Plinth, plinth area, parapet wall, partition, floor area, wall area, 
     circulation area, open space

8. Building rules and regulations
   - General Rules
   - Layout

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- Requirements of parts partition in building
- Submission of plan for approval
- Others

Principles of planning the residential space
- Aspect
- Prospect
- Grouping of rooms
- Ventilation
- Service
- Orientation
- Roominess
- Circulation
- Privacy
- Mobility
- Sustainability

10. Building Services
- Electrical, water supply, sanitary

11. Planning of different rooms
- Importance of all the rooms
- Recommended size of rooms

12. Construction materials used in building a house
- Building stones
- Clay products
- Metals products: Iron, steel and non ferrous
- Cement
- Lime
- Wood Products: Timber
- Glass
- Plastic
- White wash, distemper and paints

Unit - III
Elementary designing

13. Introduction to foundation of arts
   a. Good taste
      - Types of design: structural & decorative
      - Objectives of design: function, beauty and expressiveness
      - Design concept: application of design

14. Elements of design based on use in interiors
   a) Line
      - Types of line: straight and curved etc.
      - Illusion of lines
      - Emotional significance

   b) Form
      - Definition
      - Classification
      - Requirements of a good form

   c) Texture
      - Definition
- Types: visual, tactile
- Significance of texture

d) Light
- Types of light: natural and artificial
- Emotional significance artificial lighting system

e) Space
- Definition
- Classification: open and close

f) Pattern
- Definition
- Motifs: naturalistic, stylized, abstract, geometric
- Characteristics of a good pattern

Principles of design

a) Balance
- Definition
- Types
- Application in interior

b) Rhythm
- Definition
- Ways of achieving rhythm: repetition of shapes, progression of size, continuous line movement, radiation
- Application in interior

c) Harmony
- Definition
- Methods of achieving harmony: line & shape, colour, ideas, size & texture

d) Proportion
- Definition
- Scale
- Application in interior

e) Emphasis
- Definition
- Ways of achieving emphasis: grouping of objects, use of contrasting colour, use of decoration, use of background space
- Where to place the emphasis: law of margin
- Application in interior

Floor decoration with the use of elementary art

16. Table setting & etiquettes
- Selection of table wares for traditional & continental meals
- Setting for Indian traditional and continental meals.
- Formal and buffet arrangements

Note - Seminar presentation on selected topics from unit – II

References:

ELEMENTARY DESIGN IN HOUSING (PRACTICAL - V)

Max Marks: 50 marks
Teaching workload: one practical week (2 hours/practical)
Total teaching workload: 24 practicals/batch

Objectives:
1. To familiarize the students with the planning and understanding of interior environment.
2. Understand the methods of interior construction techniques.
3. Understand art and apply its principles in the creation.

<table>
<thead>
<tr>
<th>Contents</th>
<th>Practical</th>
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<tbody>
<tr>
<td>1. Market survey on material &amp; its cost used for building house</td>
<td>1</td>
</tr>
<tr>
<td>2. Introduction to drawing equipment/Rendering techniques</td>
<td>1</td>
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<tr>
<td>3. Introduction to Lettering/ Application of scale</td>
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<tr>
<td>4. Geometrical constructions of point, line, Quadrilateral and circle</td>
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<tr>
<td>5. Furniture dimensions</td>
<td>1</td>
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<tr>
<td>6. Drawing of architectural symbols</td>
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<td>7. Drawing of electricity symbols</td>
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Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR
<table>
<thead>
<tr>
<th>No.</th>
<th>Subject</th>
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<tbody>
<tr>
<td>1</td>
<td>Drawing of Architectural symbols for Furniture</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Collection and analysis of LIG house plan</td>
<td>1</td>
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<tr>
<td>3</td>
<td>Collection and analysis of MIG house plan</td>
<td>1</td>
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<tr>
<td>4</td>
<td>Collection and analysis of HIG house plan</td>
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<tr>
<td>5</td>
<td>House plan of HIG</td>
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<td>6</td>
<td>House plan of MIG</td>
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<tr>
<td>7</td>
<td>House plan of LIG</td>
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<tr>
<td>8</td>
<td>Drawing of colour wheel, tint &amp; shade chart and colour schemes</td>
<td>1</td>
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<tr>
<td>9</td>
<td>Wall decoration: rangoli using rice</td>
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<tr>
<td>10</td>
<td>Wall decoration: bangal using flowers</td>
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<tr>
<td>11</td>
<td>Wall decoration: rangoli using colour powder</td>
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<tr>
<td>12</td>
<td>Wall decoration: alpana mandara</td>
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<tr>
<td>13</td>
<td>Types of table setting: traditional &amp; continental</td>
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<tr>
<td>14</td>
<td>Table manners and etiquette</td>
<td>1</td>
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<tr>
<td>15</td>
<td>Types of Napkin folding</td>
<td>1</td>
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<tr>
<td>16</td>
<td>Wrapping of gift: rectangle, square, cylindrical, round and irregular boxes</td>
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<tr>
<td>17</td>
<td>Envelope making Card Making</td>
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**Scheme of Examination**

**Exercise**

**Major:** House plan for LIG, MIG, HIG.

**Minor I** - Lettering technique: rendering technique/
- House Planning symbols Furniture symbols/color wheel and scheme

**Minor II** - Table setting Napkin folding/card making/floor decoration

**Internal**

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| Minor I | 5       |
| Minor II| 5       |

**Marks**

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"AIPLAC"