



**University of Rajasthan
Jaipur**

SYLLABUS

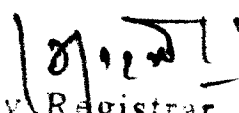
**Scheme of Examination and
Course of Study**

FACULTY OF SCIENCE

B.Sc. (HOME SCIENCE)

PART-I Examination, 2019

(10+2+3 Pattern)


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(Academic)
University of Rajasthan
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(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.

Second Division 48% of the aggregate marks prescribed in honors and subsidiary subjects of Pt.I, Pt.II and Pt.III examination taken together.

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.

Eligibility Criteria

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).

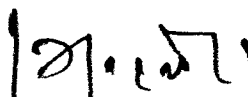
The theory examination paper will consist of three parts:

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.
2. Part II - will comprise of 5 short answer questions of 4 marks each. The answer to each question must be within the limit of 50-60 words.
3. Part III - will comprise of 6 long answer questions (essay type) of 20 marks each with internal choice in each question. Candidate will need to attempt only 3 questions.

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 national's 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.
- (b) Candidates-migrating from non-hindi speaking areas. Who have not passed the High School/Higher Secondary or an examination recognized as equivalent there to with Hindi as an optional Subject may be allowed to offer Elementary Hindi in lieu of General Hindi.


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Scheme for B.Sc. Home Science Part I

Paper	Subjects	Duration of Exam	Max Marks	Min Marks	No. of Hr/wk	No. of Hr/wk
Compulsory Subjects					Th	Pr
1.	General Hindi	3 hrs	100	36	3	
2.	General English	3 hrs	100	36	3	
3.	Environmental Studies	2hrs	100	36	2	
4.	Elementary Computer Application(Theory)(Practical)	2hrs	60	21	3	2
		2 hrs	40	13		
I	Textile & Apparel Designing (Theory)I Textile & Apparel Designing (Practical)I	3 hrs	100	36	4	2
		3 hrs	50	18		
II	Development Communication (Theory)II Development Communication (Practical)II	3 hrs	100	36	4	2
		3 hrs	50	18		
III	Foundation of Human Development (Theory)III Methods of Human Study (Practical)III	3 hrs	100	36	4	2
		3 hrs	50	18		
IV	Introduction to Foods (Theory)IV Introduction to Foods (Practical)IV	3 hrs	100	36	4	2
		3 hrs	50	18		
V	Elementary Design in Housing (Theory)V Elementary Design in Housing (Practical)V	3 hrs	100	36	4	2
		3 hrs	50	18		
		Total	1150	412	31+	12=43


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सामान्य हिन्दी

पूर्णांक 100

समय 3 घण्टे

न्यूनतम उत्तीर्णांक 36

नोट : 36 से कम अंक आने 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 भाग के लिए 26 अंक निर्धारित हैं। इस प्रकार साहित्य खण्ड कुल 52 अंकों का होगा जिसमें अंकों का विभाजन निम्न प्रकार का होगा—

(क) गद्य भाग से दो व्याख्याएं, प्रत्येक 6 अंक — 12 अंक

(ख) गद्य भाग पर दो प्रश्न, प्रत्येक 7 अंक — 14 अंक

(ग) पद्य भाग से दो व्याख्याएं प्रत्येक 6 अंक — 12 अंक

(घ) पद्य भाग पर दो प्रश्न, प्रत्येक 7 अंक — 14 अंक

व्याकरण खण्ड कुल 28 अंकों का होगा जिसमें अंकों का विभाजन निम्न प्रकार होगा—

(i) निबन्ध — 12 अंक

(ii) सक्षेपण — 4 अंक

(iii) लोकोक्ति, मुहावरे राजस्थानी की एक कहावत अवश्य पूछी जायेगी। — 4 अंक

(iv) शुद्धीकरण — 8 अंक

(शब्द शुद्धीकरण 4 अंक)

(वाक्य शुद्धीकरण 4 अंक)

(v) पारिभाषिक शब्द — 4 अंक

(vi) पल्लवन — 4 अंक

(vii) पत्र — 4 अंक

(viii) शेष व्याकरण — 8 अंक

1. साहित्य खण्ड—गद्य-पद्य की निर्धारित रचनाएं।

(i) गद्य भाग—निम्नांकित पाठ निर्धारित हैं—

1. एक दुराशा—बाल मुकुन्द गुप्त—निबन्ध (व्यंग्य विनोद)

2. शिरीष के फूल—हजारी प्रसाद द्विवेदी—ललित निबन्ध

3. हरी हरी दूब और लाचार क्रोध—कु.ना. राय—ललित निबन्ध

4. सिस्तर का वास्ते—महादेवी वर्मा—रेखाचित्र

5. महाराजपुर से ग्वारी घाट—अमृतलाल वेगड़—यात्रा वृत्तांत

6. इस्पेक्टर मातादीन चांद पर—हरिशंकर परसाई—व्यंग्य

7. उजाले के मुसाहिब—विजयदान देथा—कहानी

8. मैं और मैं—कन्हैया लाल मिश्र प्रभाकर—रिपोर्ताज

9. ब्रह्माण्ड को टटोलता हुआ सुपर जीनियस—दिनेश रावत—वैज्ञानिक निबन्ध

10. बलवान से भिड़न्त—गांधी जी की आत्मकथा से।

(ii) पद्य भाग—निम्नांकित कविताएं निर्धारित हैं—

1. मेधिलीशरण गुप्त—भूलोक का गौरव अमल आभास में (भारत-भारती से)

2. भुमिश्रानंदन पंत—बापू तथा प्रथम रश्मि


3. सूर्यकांत त्रिपाठी निराला—जागो फिर एक बार तथा तोड़ती पत्थर

4. रामधारी सिंह दिनकर—हिमालय के प्रति तथा बोधिसत्त्व

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5. हरिवंश राय बच्चन-पथ की पहचान तथा लहरों में निमंत्रण
6. केदारनाथ अग्रवाल-जब जब मैंने उसको देखा तथा यह धरती उस किसान की
7. सुभद्रा कुमारी चौहान-झाँसी का रानी तथा प्रभु तुम मेरे मन की जानो
8. भवानी प्रसाद मिश्र-गीतफरोश तथा सतपुड़ा के घने जंगल
9. नागार्जुन-कालिदान के प्रति तथा प्रेत का बयान
10. तराप्रकाश नाशो-आ रे आ बादल तथा प्राणों में यदि पाहुन होते
2. व्याकरण खण्ड-निबन्ध, संक्षेपण, पल्लवन, पारिभाषिक शब्दावली, (मानविकी, विज्ञान और वाणिज्य से सम्बन्धित), लोकोक्ति, मुहावरे, शुद्धीकरण, पत्र-लेखन, प्रतिवेदन, उपसर्ग, प्रत्यय, पर्याय, विलास, 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 on 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. CV's and Job Applications (10)
- III. Paragraph Writing (10)

Recommended Reading

1. Sasikumar, V., Dutta and Rajeevan, A Course in Listening and Speaking-I Foundation Books. 2005.
2. Sawhney, Panja and Verma eds. English At the Workplace. Macmillan 2003.
3. Singh, R.P. Professional Communication. OUP. 2004
4. Judith Leigh. CVs and Job Applications. OUP. 2004.
5. Arthur Waldhorn and Arthur Zeiger, English Made Simple. Rupa and Co.
6. Gunashekar ed. A Foundation English Course for Undergraduates. Book I, CIEFL. Hyderabad.
7. Quirk and Greenbaum : A University Grammar of English. Longman, 1973

3. ENVIRONMENTAL STUDIES

Max. Marks 100. 2 Hrs. Duration Min. Pass Marks 36
Paper will have only 100 multiple choice questions to be evaluated on
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 induced 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

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(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

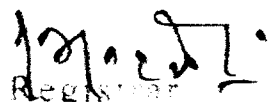
Definition

- 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 land slides. (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. Case studies.
- Wasteland reclamation.

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- 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 :

1. Agarwal K.C. 2001 Environmental Biology. Nidi Publ. Ltd. Bikaner.
2. Bharucha Erach, The Biodiversity of India, Map in Publishing Pvt. Ltd. Ahmedabad-380013, India, Email : Mapincenet, net (R)
3. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
4. Clark R.S. Marine Pollution, Clarendon Press Oxford (TB)
5. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental & Encyclopedia, Jaico Publ. House, Mumbai, 1196p
6. De A.K. Environmental Chemistry, Wiley Eastern Ltd.
7. Down to earth, Centre for Science and Environment (R)
8. Gleick, H.P. 1993, Water in crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute. Oxford Univ. Press, 473 p.
9. Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
10. Heywood, V.H. & Watson, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140 p.
11. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p.
12. Mckinney, M.L. & Schoeb, R.M. 1996. Environmental Science systems & Solutions, Web enhanced edition. 639 p.
13. Mhaskar A.K. Matter Hazardous, Techno-Science Publication (TB)
14. Miller T.G Jr. Environmental Science, Wadsworth Publishing Co. (TB)
15. Odium, E.P. 1971. Fundamental of Ecology, W.B. Saunders Co. USA 574 p.

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16. Rao M.N. & Datta, A.K. 1987. Waste Water treatment Oxford & IBH Publ. Co. Pvt. Ltd. 345p.
17. Sharma B.K., 2001 Environmental chemistry. Goel Publ. House, Meerut.
18. Survey of the Environment. The Hindu (M)
19. Townsend C., Harper, J, and Michael Begon, Essentials of Ecology, Blackwell Science (TB).
20. Trivedi R.K. Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standard, Vol I and II, Enviro Media (R)
21. Trivedi R.K. and P.K. Goel, Introduction to air pollution Technology Science Publication (TB).
22. Wagner K.D. 1998. Environmental Management. W.B. Saunders Co. Philadelphia, USA 499 p,
(M) Magazine
(R) Reference
(TB) Textbook


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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-1 : 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).
- (b) **Software** : Introduction to Programming, Languages, System Software (Operating systems and Utilities), Application Software (Word Processors, DBMS, Presentation Graphics, Browsers, Personal Information Managers) Introduction to Multilingual Word-processors.

- (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)

1. Overview of important DOS commands. Windows 98 : Installation, Scandisk, Control Panel, Taskbar, Toolbars, Display, Settings (Background, Wallpaper, Screensaver, Desktop Themes). Files and Folder management, Window Explorer, Finding Files and Folders, Formatting Disks and Copying files, Printer Settings, Modem Installation, Mouse Installation, Adding and Removing Programs, Active Desktop Concepts, Winzip and its applications, Norton Antivirus and its use, Use of Calculator, Paintbrush, sinamp, MPEG Player and Windows Help.

Unit-3 : Application Software

(Working knowledge at Common Users Level only)

- (a) Word Processing, Software MS Word, Entering, Editing and Formatting Text, Document Formats, (Page Size and Orientation, Headers and Footers, Columns and Sections, Page layout), Spelling and Grammar Checkers, Thesaurus, Find the Replace, Cut and Paste, Tables and Formatting tables, Mail Merge, Styles and Templates.
- (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, Telnet, FTP, Chat, 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.

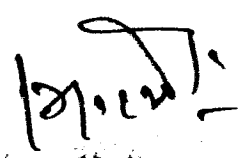
Workload : Four Period/ Three hours per week.

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 |

Condidectes are registered to attempt any three exercises on of above maintend four exereises.



BACHELOR OF SCIENCE – PART I (Home Science)

(10-2-3 Pattern)

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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.
2. Part II - will comprise of 5 short answer questions of 4 marks each. The answer to each question must be within the limit of 50-60 words.
3. Part III - will comprise of 6 long answer questions (essay type) of 20 marks each with internal choice in each question. Candidate will need to attempt only 3 questions.

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 practical, separately.

- (a) (i) Foreign national's 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.
- (b) Candidates migrating from non-hindi speaking areas, Who have not passed the High School/Higher Secondary or an examination recognized as equivalent there to with Hindi as an optional Subject may be allowed to offer Elementary Hindi in lieu of General Hindi.

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Scheme for B.Sc. Home Science Part I

Paper	Subjects	Duration of Exam	Max Marks	Min Marks	No. of Hr/wk Th	No. of Hr/wk Pr
Compulsory Subjects						
	General Hindi	3 hrs	100	36	3	
	General English	3 hrs	100	36	3	
	Environmental Studies	2hrs	100	36	2	
	Elementary Computer Application (Theory) (Practical)	2hrs	60	21	3	2
I	Textile & Apparel Designing (Theory)I	3 hrs	100	36	4	
	Textile & Apparel Designing (Practical)I	3 hrs	50	18		2
II	Development Communication (Theory)II	3 hrs	100	36	4	
	Development Communication (Practical)II	3 hrs	50	18		2
III	Foundation of Human Development (Theory)III	3 hrs	100	36	4	
	Methods of Human Study (Practical)III	3 hrs	50	18		2
IV	Introduction to Foods (Theory)IV	3 hrs	100	36	4	
	Introduction to Foods (Practical)IV	3 hrs	50	18		2
V	Elementary Design in Housing (Theory)V	3 hrs	100	36	4	
	Elementary Design in Housing (Practical)V	3 hrs	50	18		2
Total			1150	412	31-	12=43

B.SC. 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 :

UNIT-I	Hours	
1.	Design	10
	<ul style="list-style-type: none"> • Classification of design : structural and decorative designs as applied to textiles • Introduction to Basic designing – Motif and repeat • Types of design :- Natural , stylised , geometrical and abstract 	
2.	Concept of design	20
	<ul style="list-style-type: none"> • Elements of design – line , form , colour and texture • Principles of design – balance , proportion , emphasis , rhythm and harmony • Application of elements and principles of design related to apparel 	
UNIT		-II
Hours		
3.	Study in reference to origin, material used, processing techniques, colours and motifs used Traditional Woven Textiles	10
	<ul style="list-style-type: none"> • Bengal – Jamdani , Baluchari • Tamilnadu – kanjeevaram • Maharashtra – Paithani • Madhya Pradesh – Chanderi • Uttar Pradesh – Brocades 	
4.	Traditional Dyed Textiles	5
	<ul style="list-style-type: none"> • Rajasthan – Bandhani • Andhra Pradesh – Ikat • Gujarat – Patola 	
5.	Traditional Painted & Printed textiles	10
	<ul style="list-style-type: none"> • Andhra Pradesh – Kalamkari – Kalahasti & Masulipatnam • Nathdwara – Pichwais • Orissa – Patachitra • Rajasthan – Sanganer and Bagru 	
6.	Traditional Embroideries	10
	<ul style="list-style-type: none"> • Jammu & Kashmir - Kashida • Gujarat – Kutch • Punjab – Phulkari • Uttar Pradesh – Chikankari and zardosi • Karnataka - Kasuti • West Bengal – Kantha 	

Conservation and restoration of textiles		
• Special care of textiles		5
UNIT-III	Hours	
8	Fashions	10
	• Principles of Fashion	
	• Theories of Fashion	
	• Fashion Cycle	
	• Factors favouring and retarding Fashion	
9	Fashion Designers and centres	10
	• Sources of Fashion	
	• Fashion Centres	
	• Role of Designers	
	• Indian Designer	
	Fashion Marketing	6
	• Fashion market & marketing environment	

References :

1. Bhavnani, E. (1974) Folk and Tribal Designers of India, D.B. Taraporewala sons and co. Pvt. Ltd. Bombay
2. Brijbhushan, J. (1958). The costumes and textiles of India, Taraporewala and sons, Mumbai
3. Chattopadhyay, kamaladevi (1975) , handicrafts of India All India handicrafts Board , New Delhi.
4. Clarke, W. (1960) An Introduction to Textile printing . Newness – Butter worth's , Boston 1977
5. Mehta , R.J. , the Hnadicrafts and Industrial Arts of India . Taraporewala and sons , Mumbai .
6. Gilloy, J. & barinard , N (1991) Traditional Indian Textiles London : Thames & Hudson.
7. Kapoor R.C. & Jain R. (2000) Traditional & Beyond – handcrafted Indian Textiles. India Book Books
8. Nishan, V. (1995) Colourful textiles of Rajasthan India : Jaipur Printers
9. Arambh M. (1989) Patolos& resist dyed fabrics of India. New Tersely : Gujarat state Handicraft & Handloom Development corporation , grantha
10. Story, J. Manual of Textileprinting , Thames and Hudson , publication London 1992.
11. Agarwal, O.P. (1977). Care and Presentation of Museum projects – II . NRL.
12. Chattopadhyaya , K.D. (1977) , Indian Carpets and Floor Coverings , All India Handicrafts Board , New Delhi.
13. Das, Shukla (1992) . Fabric Art-Heritage of India , Abhinav Publications , New Delhi
14. Carr H., Latham B. (1994) . The Technology of Clothing Manufacture , 2nd edition , Blackwell Sc.
15. Fringes G.S. (1994). Fashion from Concept to Consumer, 6th Edition, Prentice Hall, New Jersey.
16. Tate, S.L. and Edwards , M.S. (1982) The Complete Book of Fashion Design , , Harper & Row Publication. New York

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. To train the students to use the elements of designing
2. To make them learn the application of these to apparels in sketching.

3. To impart skill of embroideries of different states of India.

Contents:

Practical

1.	Introduction to elements of design <ul style="list-style-type: none"> • Line and form – through drawings • Colour – colour wheel, grey scale and value scale, intensity scale, colour schemes. 	4
2.	Preparation of port folio using traditional motifs <ul style="list-style-type: none"> • Natural • Stylised • Geometrical & abstract 	4
3.	Preparation of traditional Embroidery samples <ul style="list-style-type: none"> • Sashli • Chikankari • Kashmiri • Paalkari • Kantha 	10
4.	Fashion sketching <ul style="list-style-type: none"> • Technical drawing of fashion details: sleeves , yolks & necklines, bodices and skirts • Designing & Dressing on a croquie • Formal & Traditional Wear 	6

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 supports structure for development efforts.
3. To sensitize the students and help them to understand the process of communication and its importance

Unit - I	Hours
1. Concept of Education, Extension Education, adult education, distance education, Formal, Non Formal and Informal Education	6
2. Concept, Meaning, objectives, Scope, principles and philosophy of Extension Education	12
3. Earlier extension efforts in India : Pre and Post Independence period	8
4. Home Science Extension : Concept, Scope and its role in national development	6
5. Extension Worker: Qualities and Role	4
Unit -II	
6. Community – Meaning and its Characteristics	2
7. Concept and Characteristics of different types of Community – Rural , Urban, Slum and tribal communities	6
8. Community organization: meaning, scope, principles and process	8
9. Role and quality of a community organizer	4

11. Support structures for extension- Panchayat, Cooperatives, Voluntary organisations (NGO), Women groups, Youth club and KVK 12

Unit - III

11	Communication- Concept, meaning, Purpose, Function and importance	6
12	Types of Organisational Communication- Oral vs Written, intrapersonal vs interpersonal, Verbal vs Non verbal	10
13	Models of Communication and Key Elements - Aristotle, Shanon- Weaver, Bern and Leagan's	8
14	Effective communication- Frame of reference, perception, fidelity, social distance, time lag, empathy, homophily, heterophily	4

References

1. Jaisankar G.P. (1988): Education and Communication for Development, , Oxford and IBH Publishing Co. Pvt. Ltd. New -Delhi
2. Directorate of Adult Education, Govt. of India (1994): New Delhi, Literacy Digest. National Literacy Mission.
3. Hussain Institute for non-formal and continuing education.
4. Jain, R. (1993) Mass Media and Rural Development. Voll. II Manak Publication Pvt. Ltd. New-Delhi
5. Kindervalter, Suzanne (1979): Non-formal Education as an Empowering Process, Centre for International Education, 285, Hills House South Amherst, Massachuseets 01003, USA. University of Massachusetts.
6. Mistry S.P.(1998) Non Formal Education 1998 Radha Publications 437814B, Ansari Road, Darya Ganj, New Delhi - 1100002.
7. Pankajam G. (2000) - Extension - Third Dimension of Education, Gyan Publishing House, New -Delhi
8. Pillai, K.S. (1993): ABC of Non-Formal Education, 17-B, Indraprasth Estate, New Delhi, Indian Adult Education Association.
9. Rao, R. Sivar - Non-Formal Education for Development, APH Publishing House, Ansari Road DarysGanj New Delhi - 1, 10002
10. Reddy, R.S. (1999) - Adult and Non- Formal Education Commonwealth Publisher.
11. Sharma SR (1997) - Reflections on Continuing and Non - Formal Education -Pointer Publisher, S.M.S. Highway, Jaipur.
12. Singh dev Raj (1995) -Infrastructure Planning for non-formal Education - Commonwealth Publishers.
13. Singh J.K., Sudarshan KN. (1996) Non-Formal and continuing Education Discovery Publishing House, 4831/24, Ansari Road, Darya Ganj, New-Delhi- 110002.
14. Srinivasan, Iyer (1977): Perspectives on Non-Formal Adult Learning 251, Park Avenue South, New York 10010 U.S.A. World Education Inc.
15. Supe, S.V. (1997) An Introduction to Extension Education. Oxford IBH Publishing Co. Pvt. Ltd., New-Delhi.
16. Utam Kumar Singh and A K Nayak, (1997) Extension Education, Commonwealth Publishers in association with Dr. Zakir Hussain Institute of 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. To develop skills for small group communication skills
 2. To develop skills of self analysis
- Visit five community organisations (any Four) and submit report-

	<ul style="list-style-type: none"> • PHC • NGO • Panchayat • Anganwari • Women Organisation's • School • Cooperative • Youth Club 	
2	Prepare a resource file and discuss the uses, advantages and limitations with reference to – <ul style="list-style-type: none"> • Book Media • Print Media • Electronic Media • Internet based media 	6
3	Planning and execution of any two small group communication for development of reading, writing and oral skills <ul style="list-style-type: none"> • Meeting • Discussion: FGD • Debate • Workshop Planning criteria – selection of the topic, formulation of broad outline, specifying the objective, designing and use of graphic media	8
4	SWOT analysis to know oneself	4

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	Hours
1. Multi-disciplinary Approaches to the Study of Human Development. Scope and Contributions of the Fields of Psychology, Sociology, Anthropology, Medicine, Management and Other Related Fields.	10
2. Meaning and Principles of Growth and Development. Determinants and Factors affecting Growth and Development: Biological and Environmental.	12
UNIT-II	
3. Understanding Life Span Stages of Human Development. Highlighting Significant Developmental Tasks.	10
4. Historical Development of Human Development as a Field of Study.	12
5. Role of Heredity and Environment: and Learning and Maturation.	10
UNIT-III	
6. Brief introduction to Perspectives and Theories of Human Development: <ul style="list-style-type: none"> • Erikson: Psycho- Social Development • Freud: Psycho-Sexual Development • Piaget: Cognitive Development 	20

7.	• Bandura: Social Learning Development Culture, Society Family and Individual Development. The Family Life Cycle.	6
8.	Aptitudes, Vocational Choices and Careers in Human Development.	6

References :

1. Allen, B.P. (2006). Personality theories: Development, growth and diversity (5thed). Needham Heights, M.A: Allyn and Bacon.
2. Ambron (1978). Child Development. Holt Rinehart and Winston.
3. Basu, A. (2006). Child Rights in India: Law, Policy and Practice. Oxford University Press, New Delhi.
4. Beecher (1985, 1995). The Developing Child. Harper and Row Publishers New York.
5. Binet & Simon (1978). Development of the child, John Wiley and Sons.
6. Bordin, P.B. and Resnick M.r. 1972. Patterns of life: Human growth and Development. Charles E Merrill Publishing Co. Ohio.
7. Sarabhi Poojit, Shashiprabha Tandon, Kavita Koradia (1996)-Manav vikas ke sopan. Agnera Publishers, Jaipur
8. Winch R.F. (1963). The modern Family. Holt Rinehart and Winston.

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:	Practical
1. Use of various methods of human study in field: observation, interviews, case studies, field notes, reports, records and ethnography.	6
2. Application, administration and scoring of any one selected standardized instruments/tests	8
3. Use of 25 Projective techniques of personality assessment.	4
4. To develop insights for self analysis through SWOT, personal narratives, role play and essay for self appraisal.	2
5. To visit selected 4 welfare institutions.	4

Examination Scheme:

1. Major problem:-
Use of various method in field/case study 15 marks
2. Minor 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
3. Viva 5 marks
4. Internal 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

1. The definition, concept and functions of Foods and Nutrition.
 2. The nutritional composition of various foods products.
 3. The effect of processing on food products.
 4. Increase the availability of food by preventing spoilage and through preservation.
- Food adulteration and various food laws and labelling rules for food safety.

Unit - I

Hours

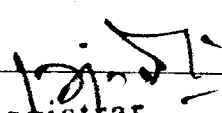
1. Definition and concept of foods and nutrition	5
<ul style="list-style-type: none">• Functions of Food – Physiological, psychological, social.• Study of following food groups with respect to their nutritional composition. Effects of heat (dry and moist), acid and alkali.• Energy giving foods	
2. Cereals & cereal products	12
<ul style="list-style-type: none">• Structure of wheat & rice• Nutritional composition of raw and processed cereal products – flour, grit, semolina, flakes, parched, puffed, fermented, RTE, macroni products.• Effect of heat (dry and moist) on starch and protein of cereals.• Effect of alkali on cereals.• A brief overview of processing techniques for example – Milling, Parboiling, Malting, Fermentation, Fortification & Enrichment.	
3. Sugars and sugar Products	10
<ul style="list-style-type: none">• Structure of fructose.• Nutritional composition of sugar & sugar products Example – Jaggery, Brown Sugar, Khandsari Sugar, Sugar Cubes, Mishri, High fructose syrup• Effect of heat (dry & moist) of sugar.• Effect of acid & alkali on sugar.	
4. Fats and Oils	8
<ul style="list-style-type: none">• Types of fats & oils – biochemical structure also.• Effect of heat• Hydrogenation• Effect of storage : rancidity	

Unit -II

Body Building Foods

5. Legumes	8
<ul style="list-style-type: none">• Nutritional composition of pulses and soya products• A brief overview of processing techniques for example – Milling, fermentation, germination	
6. Milk and Milk Products	10
<ul style="list-style-type: none">• 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	10
<ul style="list-style-type: none">• Structure of egg.	

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	<ul style="list-style-type: none"> • Nutritional composition of meat, fish, egg & poultry. • Effect of heat on meat & egg. 	10
	Protective Foods <ul style="list-style-type: none"> • Nutritional composition of fruits, vegetables & processed products. • Effect of heat, acids & alkali on fruits & vegetables. 	3
	Miscellaneous <ul style="list-style-type: none"> • Nutritional composition of Tea, Coffee, Cocoa. 	
Unit - III		
10.	Spoilage and Preservation <ul style="list-style-type: none"> • 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 - solar, spray & drum • Radiation 	10
11.	Food Adulteration - definition, common adulterants and their health hazards, food laws and labelling.	5
12.	Food Additives: food colours, flavourants, spices and condiments, emulsifiers, stabilizers, leavening agents.	5

References:

1. Bennion, M. (1985) Introductory Foods. Eight editions. Macmillan Publishing Company, New York. Charly, H. (1970) Food Science. John Wiley & Sons Inc. New York. Second edition.
2. Frazer, A.C. (2000). 26th Reprint, Food Microbiology. Tata McGraw Hill Publishing Co. New Delhi.
3. Lewis, B. (1957) Experimental Cookery. John Wiley and Sons Inc. New York
4. Manoj, N.S and Shadaksharaswamy M. (2001) Food Facts and Principles. Second edition. New Age International Publisher, New Delhi
5. Meyer, L.H. (1987) Food Science. 3rd Ed CBS Publishers and Distribution, Delhi
6. Potter, N.N. (1987) Food Science. 3rd Ed CBS Publishers and Distributors, Delhi 1987
7. Srinakshani, B. Food Science, new Age International (P) Ltd. Publishers, New Delhi.
8. Swaminathan M. (1990). Food Science Chemistry and Experimental Foods, The Bangalore Printing & Publishing Co. Ltd., Mysore, Bangalore

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 portion size <ul style="list-style-type: none"> • Beverages- Tea (hot & iced), Coffee (hot & cold), chhaach, lassi, milk shakes, fruit punch (using squashes, fresh fruits). 	1

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lemonade, jaljeera, aamla shake, aampanna, mocktails(2), mirinda shake.	
• Cereal cookery – chapaati, puri (plain, missi), parantha (stuffed, plain) & pancakes, bhatura, rice (plain, pulao, sweet), khichdi, daliya, upma, poha, halwa, baati, choorma, mathri (namakpara, snakkarpara), chowmein, pizza, sandwiches (open, club, cucumber+tomato).	3
• Legumes & pulses – daal (plain & daal fry), rajma, chhole, dal makhani, kadhi, mangodi, pancake, dahivada, dal pakodi, besanpakodi, sprout chaat, fermented products, sweets (besanladdoo, mohanthal, dal halwa)	2
• Vegetables – Dry vegetables (aalugobi, methiaalu, palaktamaatar), stuffed vegetables (bhindi, capsicum), vegetables with gravy (dahiyaalu, malaikofta, gatta, dumaalu, matarpaneer, chilli paneer), baked vegetables.	2
• Fruits – Salads & desserts	1
• Milk & milk products – paneer, khoa, curd, shrikhand, kheer, custard, raita, fruit cream	2
• Meat, fish & poultry preparations.	1
• Eggs – Boiled, ommelette, fried (half, full), poached.	1
• Soups – clear & cream including Indian soups – palak, tomato, mixed veg, minestrone, sweet corn, pea soup, lentil, rabri.	1
• Salads – tossed, Russian, fruit salad, sprout salad, kosambi, Russian salad, corn, chana, pasta salad, salad dressings.	1
• Snacks – samosa, kofta, kachori, dosa, idlivadasambhar, khaman, uttapam, tikkichola, pavbhaji, sago khichri, mixed veg cutlets, bhelpuri, harabharakabaab, paneertikka, burger, spring rolls.	2
• Sweets – jalebi, sandesh, gulabjamun, laddu, coconut barfi, gujiya, petha roll, chhainamurki.	2
• Baked products – demonstration of cakes & biscuits	1

References :

1. Raina C, Kashyap S.K, Narula, V., Thomas, S., Suvira, Vir, S and Chopra S., Basic Food Preparation: Complete Manual, Orient Longman Pvt. Ltd., New Delhi, Third edition, 2002.
2. Gupta, S., Sethi, R., Khanna, K. and Mahna, R. Art and Science of Cooking – A student's Manual, Blaze Publishers & Distributors Pvt Ltd., New Delhi 1991
3. Mathur, M., Goyle, A., Gupta, P. and Magon A. Book of Recipes, India Book House, Jaipur, 1995.

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.

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Understanding the principles of art and design.

Unit - I

Family's housing needs Hours

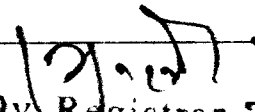
1.	Functions of housing	3
	<ul style="list-style-type: none">• Protective• Economic• Affection• Social status	
2.	Factors influencing family housing needs	4
	<ul style="list-style-type: none">• Attributes of family• Size and structure• Activities and stage of life cycle• Living habits etc.	
3.	Factors influencing selection and purchase of site for house building	4
	<ul style="list-style-type: none">• Vegetation, size, soil types• Drainage, contour (shape)• Orientation etc.	
4.	Legal aspect and procedure for	5
	(a) purchasing	
	<ul style="list-style-type: none">• Plot• Apartment• Independent house	
5.	(b) Construction of house	6
	Calculating the cost of housing	
	<ul style="list-style-type: none">• Cost of land• Cost of building materials• Cost of labour• Cost of supplies, electricity, water, sanitary fitting.	
6.	Types of houses	3
	<ul style="list-style-type: none">• Tenement• Apartment• Duplex• Row houses	

UNIT-II

Landscape management

7.	Building terminology	8
	<ul style="list-style-type: none">• Layout, building, height of a building, plot or site street or road, applicant, building line.• Sectional plan, licensed architect, set back line, alteration, height of room, balcony, barsati• 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	4
	<ul style="list-style-type: none">• General Rules• Layout	

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	<ul style="list-style-type: none"> • Requirements of parts partition in building • Submission of plan for approval • Others 	
	Principles of planning the residential space	7
	<ul style="list-style-type: none"> • Aspect • Prospect • Grouping of rooms • Ventilation • Service • Orientation • Reasonness • Circulation • Privacy • Flexibility • Sustainability • Aesthetics • Elegance 	
10.	Building Services	5
	<ul style="list-style-type: none"> • Electrical , water supply , sanitary 	
11.	Planning of different rooms	5
	<ul style="list-style-type: none"> • Importance of all the rooms • Recommended size of rooms 	
12.	Construction materials used in building a house	6
	<ul style="list-style-type: none"> • 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	4
	a) Good taste <ul style="list-style-type: none"> • Types of design: structural & decorative • Objectives of design: function, beauty and expressiveness • Design concept: application of design 	
14.	Element of design based on use in interiors	2
	a) Line <ul style="list-style-type: none"> • Types of line: straight and curved etc. • Illusion of lines • Emotional significance 	
	b) Form <ul style="list-style-type: none"> • Definition • Classification • Requirements of a good form 	2
	c) Textures <ul style="list-style-type: none"> • Definition 	2

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	<ul style="list-style-type: none"> • Types: visual, tactile • Significance of texture 	2
	d) Light <ul style="list-style-type: none"> • Types of light: natural and artificial • Emotional significance artificial lighting system 	
	e) Space <ul style="list-style-type: none"> • Definition • Classification: open and close 	2
	f) Pattern <ul style="list-style-type: none"> • Definition • Motifs: naturalistic, stylized, abstract, geometric • Characteristics of a good pattern 	2
15.	Principles of design	
	a) Balance <ul style="list-style-type: none"> • Definition • Types • Application in interior 	3
	b) Rhythm <ul style="list-style-type: none"> • Definition • Ways of achieving rhythm: repetition of shapes, progression of size, continuous line movement, radiation • Application in interior 	3
	c) Harmony <ul style="list-style-type: none"> • Definition • Methods of achieving harmony: line & shape, colour, ideas, size & texture 	3
	d) Proportion <ul style="list-style-type: none"> • Definition • Scale • Application in interior 	3
	e) Emphasis <ul style="list-style-type: none"> • Definition • Ways of achieving emphasis: grouping of objects, use of contrasting colour, use of decoration, use of back ground space • Where to place the emphasis: law of margin • Application in interior 	3
16.	Floor decoration with the use of elementary art	2
17.	Table setting & etiquettes <ul style="list-style-type: none"> • Selection of table wares for traditional & continental meals • Setting for Indian traditional and continental meals. • Formal and buffet arrangements 	3
Note - Seminar presentation on selected topics from unit - II		
References:		
1. Adams, S.T. (1981). How To Buy, Repair And Maintain Home Systems And Applications, . ARCO Publications, New York.		
2. Agan Tessie (1986). The House Its Plan And Use, Oxford and IBH publishing company, New Delhi.		
3. Agan, Tessie (1951). The House Its Plan And Use, J.B. Lippincott, New York.		
4. Broadbent G., Bunt R. & Charles Zencles. (1989). Sign, Symbol, and		

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- Architecture, John Wiley & Sons, New York.
5. Choudhary, R. (Editor) English Lettering and Alphabets, Gaurav Publishing house, New Delhi.
 6. Couran Terence (1974). The House Book, Mitchell Beazley Publications Ltd, London.
 7. Deshpande, R.S. (1995). Modern Ideal Homes For India, Deshpande Publication Trust, Puna.
 8. Deshpande (1991). Build Your Homes, United Book Corporation, Puna.
 9. Deshpande (1991). Modern Ideal Homes of India, United Book Corporation, Puna.
 10. E & OE. "Planning - The architects Handbook"
 11. Ferencik, S. Merrit (1981). Building Design and construction and handbooks, New Delhi.
 12. Goss, Robert W. (1984). Rendering with Pen and Ink (2nd Edition), Themes and Finishes Ltd, London.
 13. Jones, Bridget (2000). Entertaining in Style. Annes Publishing Ltd., London.
 14. Joseph, D. Falcon. (1987). principles and practices of Residential Construction, Prentice Hall, New Jersey.
 15. Patani M., (2010). Home Management, Star Publication, Agra.
 16. Mills, Edward D. (Ed). (1985). Planning: The architects Hand book, 10th Edition, Butlerworths.
 17. Millar, Max (1960), Know How To Draw, B.T. Batsford Ltd., London.
 18. Paltison Garden Day (1982). A Guide To Professional Architectural And Industrial Scale Model Building. Eagle Wood Cliffs, N.J. Prentice Hall.
 19. Peet L.J. and Arnold M.G., (1970), Household Equipment, John Wiley and Sons, New York.
 20. Raja Rao, T.N., Subranayan, Y , (2000) , Planning of Residential Buildings, Standard Publisher, New Delhi
 21. Teemier I. (1974). How it works and how to give it. New American Library
 22. Giffat M & Goldstein V. (1967). Art Everyday Life, Oxford & IBH publishing Co., New Delhi.
 23. Goldstein M & Goldstein V. (1967). Art Everything Life, McGraw hill Book company Ltd., New York.

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 interior environment.
2. Understand the methods of interior construction techniques.
3. Understand art and apply its principles in the creation.


Contents :	Practical
1. Market survey on material & its cost used for building house	1
2. Introduction to drawing equipment/Rendering techniques	1
3. Introduction to Lettering/Application of scale	1
4. Geometrical constructions of point, line, Quadrilateral and circle	1
5. Furniture dimensions	1
6. Drawing of architectural symbols	1
7. Drawing of electricity symbols	1

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8.	Drawing of Architectural symbols for Furniture	1
9.	Collection and analysis of LIG house plan	1
10.	Collection and analysis of MIG house plan	1
11.	Collection and analysis of HIG house plan	1
12.	House plan of HIG	1
13.	House plan of MIG	1
14.	House plan of LIG	1
15.	Drawing of colour wheel, tint & shade chart and colour schemes	1
16.	Floor decoration: rangoli using rice	1
17.	Floor decoration: rangoli using flowers	1
18.	Floor decoration: rangoli using colour powder	1
19.	Floor decoration: alpana mandana	1
20.	Types of table setting: traditional & continental	1
21.	Table manners and etiquette	1
22.	Types of Napkin folding	1
23.	Wrapping of gift: rectangle, square, cylindrical, round and irregular boxes	1
24.	envelop making Card Making	1

Scheme of Examination		Marks
Exercise		20
Major- House plan for LIG, MIG, HIG.		
Minor I - Lettering technique/ rendering technique/ House Planning symbols Furniture symbols/color wheel and scheme		5
Minor II - Table setting/Napkin folding/card making/floor decoration		5
Internal		20


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