

GOVT. BILASA GIRLS' P.G. (Auto.) COLLEGE

Link Road, Bilaspur (C.G.)

Phone No. : 07752-224249, Website : www.bilasagirlscollege.ac.in



SYLLABUS

B.Sc. (Home Science)
(Plain/FQ/Fashion Designing)
Semester - I & II

2021-22

Rules and Regulations for the Semester System at the Graduation Level

1. These subjects are compulsory for all students:-
 - (a) Environmental Studies (I Semester)
 - (b) English Language (II and III Semester)
 - (c) Hindi Language (IV and V Semester)
 - (d) Skill Based Course (VI Semester)
2. In each semester there will be only one theory paper in each elective Subject.
3. For Honours Degree Course, there will be one additional theory paper in each semester i.e. semesters, III to VI.
For Honours Degree Course, separate practical classes will be held round the year but the examinations shall be held only in even semesters i.e. semesters II, IV and VI.
4. **Marks Pattern:-**
 - (i) For non practical subjects, each theory paper will be of 100 marks i.e. 80 External + 20 Internal.
 - (ii) For practical subjects, each theory paper will be of 75 marks i.e. 60 External + 15 Internal.
 - (iii) Practical examination will be of 50 marks. Practical Classes will be held round the year but examination shall be held only in even semesters i.e. semesters II, IV and VI.
5. **Theory Examination:-**
Duration for theory examination shall be of two and half hours.
6. **Practical Examination:-**
Duration for Practical examination shall be as suggested in the syllabi.
7. **Admission Period:-**
 - (i) Admissions in the First Semester shall be completed before 15th of July every year.
 - (ii) Admissions in Semesters i.e. II, III, IV, V and VI shall be completed within 7 days after the completion of examinations on the provisional basis.
 - (iii) The provisional admission shall be regularized within 7 days from the date of declaration of result.
 - (iv) Request for permission for late admission shall not be entertained.
8. **Schedule of Classes-**
 - (i) I Semester's classes will be commenced from 16th of July every year
 - (ii) III and V Semester's classes will be commenced from 2nd July every year.
 - (iii) II, IV and VI Semester's classes will be commenced from 2nd January every year.
 - (iv) All the classes shall be continued till seven days prior to the commencement of the examination.
9. **Examination Schedule- Tentative Schedules of examinations are as under-**
 - (i) Odd semester (I, III & V) - 20th November to 20th December.
 - (ii) Even semester (II, IV & VI) - 15th April to 14th May.
10. **Examination Pattern -**
 - (a) Questions will be asked Unit wise and Section wise. Questions will be set from all Units Covering the entire syllabi.
 - (b) For non practical subjects, maximum marks will be 80 (External).
 - (c) For the practical based subjects, maximum marks will be 60 (External).
 - (d) In each theory paper there will be three sections and the marks distributed for different sections will be in the following pattern -

Theory (Non- Practical):- There will be three sections A, B and C in the question paper.
Section - A Objective Type/ In few words (30 words)

There will be 15 questions to be set, three from each unit and 10 to be attempted. Each question will carry 2 marks.

Section - B Short Answer Type (60 words)

There will be 5 questions to be set, 1 from each unit and all five questions to be attempted. Each question will carry 6 marks.

Section - C Long Answer / Eassy Type Question

There will be 5 questions to be set, 1 from each unit and 2 to be attempted. Each question will carry 15 marks.

Marks Scheme for - Non-practical subject -

Types of Questions	Question to be set from each Unit	Total No. of Questions	Questions to be solved	Marks assigned	Total Marks
Objective / In few words	03	15	10	02	20
Short Answer Type Questions	01	05	05	06	30
Long / Essay type of questions	01	05	02	15	30
Total - 80					

(i) **Theory (Practical Subject):-** There will be three sections A, B and C in the question paper.

Section - A Objective Type/ In few words (30 words)

There will be 15 questions to be set, three from each unit and 10 to be attempted. Each question will carry 2 marks.

Section - B Short Answer Type (60 words)

There will be 5 questions to be set, 1 from each unit and all five questions to be attempted. Each question will carry 4 marks.

Section - C Long Answer / Eassy Type Question

There will be 5 questions to be set, 1 from each unit and 2 to be attempted. Each question will carry 10 marks.

Marks Scheme for - Practical Subject -

Types of Questions	Question to be set from each Unit	Total No. of Questions	Questions to be solved	Marks assigned	Total Marks
Objective / In few words	03	15	10	02	20
Short Answer Type Questions	01	05	05	04	20
Long / Essay type of questions	01	05	02	10	20
Total - 60					

For question papers of compulsory papers of General group subjects i.e. Environmental Studies, English Language, Hindi Language and Skill Based Course, the pattern of question shall be applicable as suggested by the concerned Board of Studies.

(ii) **Practical**

	Each Practical
Laboratory Note Book / Project	10
Vive voce	10
Lab work / Field work	30
Total - 50	

- (e) In odd semester examination, a candidate shall appear in papers of odd semester(s) only. Similarly in even semester examinations, a candidate shall appear in papers of even semester(s) only. Papers of odd and even semesters shall not be confined in one examination.
- (f) Minimum passing marks for external/ semester end theory and practical shall be 34%.

- (g) There shall be provision of 3 grace marks and it would be distributed in maximum two theory Papers / Practical.

Internal Assessment

- Internal Tests are compulsory for theory papers and must be held as per following calendar:-

Odd Semesters 1st Test - August, 2nd Test - October and 01 Assignment (during semester)

Even Semesters 1st Test - February, 2nd Test - March and 01 Assignment (during semester)

- Each test & Assignment will be of 20 marks for the subjects without practical & 15 marks for the subjects having practicals. Average of the marks obtained in the best of two tests & assignment shall be incorporated as the final marks. Qualifying marks is 40%.
- If a candidate failed to attend the test on bonafide grounds, one special test may be arranged on the production of relevant documents, before submission of application forms and fees to the office.
- The Unit tests/Assignment marks to be sent to the examination cell of the college as per notification to be issued by the Principal/ Controller Examination from time to time.
- If a candidate (whose status is Regular / Ex/Supplementary) failed in First Year of the current session (2013-14) of annual system will be appeared in the first semester examination as ex-student with under the rules and regulations of Semester System. Number of Internal Test of passed year (2013-14) will not be incorporated or carried forward.

	Non Practical Subject		Practical Subject	
	External	Internal	External	Internal
MAX MARKS	80	20	60	15
MIN MARKS	28	08	21	06

Eligibility criteria for appearing in the examinations

- A candidate should have 75% of attendance both in theory and practical classes. 65% attendance may be considered only on special circumstances and on certification by the Principal of the college.
- A candidate shall have to qualify in the internal tests securing at least 40% marks.
- A candidate shall be allowed to appear in those papers only in which she has secured qualifying marks in internal test.
- If a candidate after taking admission in 1st semester could not continue the classes or could not obtain eligibility cannot appear in the 1st semester examinations. In such cases the student will not be allowed to continue in second semester and she has to continue the classes and obtain eligibility in 1st semester again in next academic year as ex-student.

11. Lecture Periods /Classes

There shall be a minimum of 50-60 hours Classes for each theory papers in respective course. Minimum of 50-60 hours shall be for each practical paper. This shall be strictly adhered to.

12. Other Guidelines

- There will be no provision for Revaluation, Supplementary or Betterment (Division Improvement).
- A candidate has to clear all the papers within 12 semesters (six years) from the year of first admission in the programme.
- A candidate will choose Honours subject just before the start of third semester from any one of the three elective subjects /group selected by her in the first semester. A candidate can change the Honours subject within 15 days from the date of admission in the third semester.
- The system of credit of ten point scale examination marks in the final mark sheet shall be introduced only after its formal approval by the competent authorities.

- (v) The system of Choice based credit system and Gradation system shall be introduced only after its formal approval by the competent authorities.

For Honours Degree Course (Total Marks: 2800).

13. Admission -

The process of admission in Honours Degree Course will be as follows -

- (i) Student shall select course (Pass Course / Honours Degree Course) at the time of first admission in the college.
- (ii) Admission shall be on merit basis after receiving the application from students.
- (iii) Number of seats for Honours Degree Course will be decided as per the Govt. Rules.

(A) Each theory Paper (Non Practical Subject)

<i>Each Theory Paper</i>		<i>Internal Assessment</i>	
Full Marks	Minimum Passing 34%	Full Marks	Minimum Marks 40%
80	28	20	08

(B) Each theory Paper (Practical Subject)

<i>Each Theory Paper</i>		<i>Internal Assessment</i>	
Full Marks	Minimum Passing 34%	Full Marks	Minimum Marks 40%
60	21	15	06

(C) Each Practical Paper

<i>Minimum Passing Percentage</i>	<i>Full Marks</i>	<i>Minimum Passing Marks</i>
34%	50	17

(D) Grace Marks

Total/Maximum 03 in two theory paper/practical.

Amendments in Promotion Rules for Semester System at the Graduation Level

- (a) A Candidate is eligible to continue the second semester classes immediately after the 1st Semester examinations and can appear in the 2nd semester examinations notwithstanding the number of arrear papers in 1st semester provided she must have appeared in the 1st semester examination.
- (b) A candidate will be promoted to 3rd semester with not more than two papers of 1st semester and she will continue to attend classes of 3rd semester provisionally. She will be allowed to get final admission in the 3rd semester with maximum of four back papers in all 1st semester and 2nd semester.
- (c) A Candidate is eligible to continue the 4th semester classes immediately after 3rd semester examination and can appear in the 4th semester examination with maximum 2 back papers in 1st semester and/or any numbers of back papers in 2nd and 3rd semester.
- (d) A candidate will be promoted in 5th semester with not more than 2 back papers in 3rd semester and not more than 4 back papers in all 3rd and 4th semester provided she has cleared 1st and 2nd semester examination.
- (e) A candidate is eligible to continue the 6th semester immediately after the 5th semester examination and can appear in 6th semester examination with maximum of 2 back papers in 3rd semester and/or any number of back papers in 4th and 5th semester examination.
- (f) If a Candidate of 6th Semester is passed in all the semesters except the 5th Semester with back examination of 6th Semester, she is allowed to appear in the back paper of the 5th Semester with the

- (g) The students at the UG Level can view their valued answer copies and apply for the **Challenged Valuation** within 03 days from the date of the declaration of the result.
- (h) A candidate will be eligible to get Graduation and Graduation Honours degree after passing all the six semester examination. For cleaning all semester papers a candidate will be given a period 6 years (12 semesters) from the year of first admission.

सेमेस्टर स्नातक स्तर प्रमोशन नियम

प्रथम सेमेस्टर में प्रवेश की पात्रता:-

- प्रथम सेमेस्टर में छात्राओं का प्रवेश छ.ग. शासन के प्रवेश नियम के आधार पर किया जावेगा।

द्वितीय सेमेस्टर में प्रवेश की पात्रता:-

- विद्यार्थी को प्रथम सेमेस्टर की परीक्षा के तत्काल बाद कितने भी विषयों में बैक के साथ द्वितीय सेमेस्टर में अध्ययन की पात्रता होगी, बशर्ते वह प्रथम सेमेस्टर की परीक्षा में शामिल हुआ हो।

तृतीय सेमेस्टर में प्रवेश की पात्रता:-

- प्रथम सेमेस्टर में 02 से अधिक विषयों में बैक नहीं होना चाहिए।
- प्रथम एवं द्वितीय सेमेस्टर में सम्मिलित रूप से 04 विषयों से अधिक में बैक न हो।

चतुर्थ सेमेस्टर में प्रवेश की पात्रता:-

- प्रथम सेमेस्टर में 02 से अधिक विषयों में बैक नहीं होना चाहिए।
- द्वितीय एवं तृतीय सेमेस्टर में कितने भी विषयों में बैक हो।

पंचम सेमेस्टर में प्रवेश की पात्रता:-

- प्रथम सेमेस्टर उत्तीर्ण होना चाहिए।
- द्वितीय सेमेस्टर उत्तीर्ण होना चाहिए।
- तृतीय सेमेस्टर में 02 से अधिक विषयों में बैक न हो।
- तृतीय एवं चतुर्थ सेमेस्टर में सम्मिलित रूप से 04 विषयों से अधिक में बैक न हो।

षष्ठम सेमेस्टर में प्रवेश की पात्रता:-

- प्रथम सेमेस्टर उत्तीर्ण होना चाहिए।
- द्वितीय सेमेस्टर उत्तीर्ण होना चाहिए।
- तृतीय सेमेस्टर में 02 से अधिक विषयों में बैक न हो।
- चतुर्थ एवं पंचम सेमेस्टर में कितने भी विषयों में बैक हो।
- यदि कोई छात्रा सभी सेमेस्टर में उत्तीर्ण है एवं केवल पंचम सेमेस्टर में 01 (एक) विषय में बैक है, ऐसी छात्रा को षष्ठम सेमेस्टर की परीक्षा के साथ परीक्षा देने का अवसर दिया जावेगा।
- विशेष -
 - ✓ मूल्यांकित उत्तर-पुस्तिकाओं के अवलोकन व Challenged Valuation की प्रक्रिया इस स्नातक स्तर सेमेस्टर परीक्षा अप्रैल-मई से लागू है। छात्राएं परीक्षा परिणाम घोषित होने की तिथि से 3 दिन के भीतर इस हेतु आवेदन प्राचार्य को दे सकती हैं।
 - ✓ विद्यार्थी को स्नातक एवं स्नातक आर्नस की उपाधि तभी प्राप्त होगी जबकि उसने सभी 06 सेमेस्टर की परीक्षाएँ उत्तीर्ण कर ली हों एवं 06 सेमेस्टर की परीक्षाएँ उत्तीर्ण करने हेतु उसे प्रथम प्रवेश की तिथि से लेकर 06 वर्षों की अवधि प्राप्त होगी।
 - ✓ छात्रा जिस सत्र बैक की परीक्षा में सम्मिलित होगी उसी सत्र का पाठ्यक्रम एवं परीक्षा संबंधी नियम लागू होगा।

BSc (HOME SCIENCE)

First semester

MARKING SCHEME

Sr No	Name of Papers	Theory	Internal Assessment	Total Marks
1	Environmental Studies	60	15	75
2	Community Nutrition & Applied Life Sciences	60	15	75
3	Introduction to Human Development & Family Dynamics	60	15	75
4	Introduction to Textile & Clothing/FQ/Fashion Designing	60	15	75

S. No	Name of Practical	Marks
1	Community Nutrition & Applied Life Sciences	50
2	Introduction to Human Development & Family Dynamics	50
3	Introduction to Textile & Clothing	50

Total Marks-450

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**BSc (HOME SCIENCE)
First semester**

PAPER - I

COMMUNITY NUTRITION & APPLIED LIFE SCIENCES

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UNIT-I An Introduction of physiology & Anatomy

- A. Structure & Functions of cell & Tissues
- B. Cardiovascular System
 - * Blood and it's composition & Functions
 - * Coagulation of blood
 - * Blood group
 - * Structure and functions of Heart, Blood vessels
 - * Heart rate, Cardiac output blood pressure and it's regulation
 - * Circulation of Blood
- C. Musculo skeletal System
 - * Types of muscles, functions
 - * Skeletal System. Structure and types of Bone

UNIT-II Gastrointestinal System

- * Structure and functions of various organs of the GI Tract.
- * Digestion & absorption of food.
- Nervous System
 - * Elementary Anatomy of Nervous System
 - * Functions of different part of the brain and Spinal cord.
 - * Autonomic, Sympathetic & Parasympathetic nervous system.

UNIT-III Excretory System

- * Structure & Functions of Kidney, bladder, formation of urine.
- * Structure & Functions of Skin.
- * Regulation of temperature of the body.
- Respiratory System
 - * Structure of lungs
 - * Mechanism of respiration and it's regulations
 - * O2 and CO2 transport in blood.
 - * Vital capacity and other volumes.

UNIT-IV Reproductive System

- * Structure and functions of Male & Female reproductive organs.
- * Physiology of pregnancy, parturition, Lactation and menopause.
- * Special sense organs structure & Functions.

UNIT-V Concept and scope of community nutrition

- A. Nutritional problems of the community and implications for public health.
 - * Common problems in India.
 - * Causes (Nutritional and non nutritional)
 - * Incidence of nutritional problems, signs and symptoms treatment.
- B. Schemes and programmes to combat nutritional problems in India.

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- * Prophylaxis programmes.
- * Mid day meal programme.
- * ICDS
- C. Hazard to Community Health and Nutritional Status.
 - * Adulteration in food.
 - * Pollution of water.

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BSc (HOME SCIENCE)
First semester

PAPER - II
INTRODUCTION TO HUMAN DEVELOPMENT & FAMILY DYNAMICS

Marks : 60

UNIT - I

- A. What is Human Development? Definition of development and human development Why do we need to study it?
- B. Under standing growth and development definition and difference between Growth and Development.
- C. Generals Principles of Development.
- D. Constraints and Faciliatators in growth & Development (Influence of heredity and Environment)

Genetic Inheritance-

- Fertilization
- Number of Chromosomes
- The Unique third pair determines sex
- Geno type and phenol type
- Sex linked genetic effects

Environmental pre Requisites-

- Nutrition
- Opportunities

Interaction between environment and inheritance-

- Genes provide the pre disposition, range and direction of development
- Environment determines the extent/ limit

The beginning if new life- pre natal development - Emphasize major developments during the three stages of inter-uterine development .

Pre natal Influences on the child- biological risks, age of mother, physical characteristic, illness, diet and nutrition, stress and emotional strains, environmental hazards.

UNIT-II What is physical and motor development?

Physical Development

- The new born physical appearance : size, weight bodily proportions, sensory capacities i.e. hearing, vision, taste, smell, touch, temperature and position.

External physical changes - changes in Body size, changes in Body proportion, internal physical changes - changes in muscles, bones and brain as it continues through infancy end of infancy, preschool & middle childhood

- Linking physical and motor development.
- Motor development : reflexes in infancy; major milestones through end of infancy preschool years, middle and late childhood.
- Motor coordination and delayed motor development.

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- Physical and motor development can be influenced through : (i) Maturation, (ii) nutrition, (iii) monitoring and health care, (iv) stimulation, (v) practice.

UNIT - III THE DEVELOPMENT OF LANGUAGE ACROSS THE LIFE SPAN

Language as a form of communication

- Functions of language : expressing wishes, controlling others, interacting with others, expressing individuality, exploring the world, pretending, using language to communicate/share information, understanding our society and culture.
- Communicating before language development i.e. the stages of vocalization: undifferentiated crying, differentiated crying, babbling gestures and emotional expiration.
- Beginning to use language :Development of comprehension , word usage ,sentence usage one and correct pronounciations
- Language development can be influenced through : (i) maturation, (ii) stimulation.

Cognitive Development Across the Life Span

a. What is cognitive development ?

- The concept of intelligence.
- A brief introduction to Piaget's theory (introduce stages with much elaboration : sensory-motor stage in infancy concrete operational stage in childhood (changes in remembering the reasoning in middle childhood formal operations in adolescence.
- The concept of intelligence, mental age and intelligence coefficient.

UNIT-IV Socio-emotional Development Across the life Span

a. Understanding social and emotion development

b. Social development :

- Introduce socialization as an important part of the process of becoming human.
- Social milestones : beginning with the emergency of the social smile; attachment, separation, anxiety.
- Patterns and role of parent-child interactions, interactions with siblings and peers; social and cultural interactions through infancy to old age.

c. Emotional development :

- Emotions serve two adaptive functions : (i) motivating and (ii) communication.
- Basic emotional reactions (joy, fear, jealousy, anger, sadness, aggressions)
- Components of emotion : (i) emotions are elicited by the context, (ii) include bodily activity, (iii) emotional expressions are made through facial expressions, bodily movements, vocalization, (iv) labeling emotions.

Emotions may be acquired as a result of/by the Influence of - (i) internal and external sources, (ii) cognition, (iii) learning and (iv) social reinforcement.

UNIT-V Personality Development across The Life Span

a. What is personality ?

b. Types of personality

c. Components of personality patterns

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c. Personality may be influenced by : (a) heredity. (b) environment (parenting styles, peer groups, social interactions, early experiences, life events, support available in a community etc

Marriage

- a. Marriage as an institution : goals, rituals, functions, changes and challenges.
- b. Mate selection : factors influencing. considerations of exogamy and endogamy, changing trends, arranged and personal choice of mates.
- c. Preparation for marriage, social emotional issues, financial concerns and exchanges, guidance and counselling.
- d. Marital adjustment, areas and factors influencing. planned parenthood.

Families with Problems

- a. Families with marital disharmony and disruption, dimension. casual factors.
- b. Families in distress, violence and abuse, dowry victimization, violence against women.

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**BSc (HOME SCIENCE)
First semester**

**PAPER - III
INTRODUCTION TO TEXTILES & CLOTHING**

Marks : 60

UNIT-I Classification of Textiles :

- a) Introduction and classification of textiles, Terminology in textiles.
- b) History, composition, types, production, properties and uses - Cotton, Linen, Wool, Silk, Rayon, Nylone, Polyamide, Polyester and Acrylic fibres.

UNIT-II Study of Yarns :

Methods of spinning, making of spinning, making of sewing thread, simple novelty, metallic and textures yarns, stretch, core spun, bi and multi component yarns characteristics. Yarn numbering systems (Cotton count, Denier).

UNIT-III Spinning and Finishes

- a. Fabric Construction, Weave and its types and method of making

Finishes

- a. Mechanical Finish-Singeing, napping brushing, shearing, sizing, shrinking, tendering, calendaring, etc
- b. Chemical - bleaching, mercerizing, etc.
- c. Special purpose finishes - wrinkle resistant, water resistant and repellent, flame retardant, durable press, soil release and resistant, ant piling, dyeing and printing, etc.

UNIT-IV Equipment

Equipment and supplies used in clothing construction, their maintenance, problems faced, remedies with specific reference to sewing machine.

Selection of Fabrics

Factors influencing selection of fabrics, budget, age, season, occupation, figure, fashion, occasion etc.

Care and storage of fabric

UNIT-V Principles of Clothing Construction :

General Principles of clothing construction. Drafting and making paper patterns.

Taking body measurements for different types of garments. Preparation of fabrics for garment making Laying out of patterns, cutting and marking.

Selection of fabric for garment and Occasional dresses.

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B.Sc. (Home Science) Part - I
FOOD SCIENCE & QUALITY CONTROL
PAPER - I
BASIC NUTRITION & FOOD CHEMISTRY

Total Marks-

UNIT - I

1. Introduction to nutrition - food as a source of nutrients, function of foods, definition nutrition, nutrients, adequate optimum and good nutrition, malnutrition.
2. Inter-relationship between nutrition and health-visible symptoms of good health.
3. Food guide-Basic five food groups how to use food guide.
4. Use of food in body-digestion, absorption, transport utilization of nutrients in the body.
5. Water- as a nutrients, functions, sources, requirement, water, balance-effect of deficiency.

UNIT - II

1. Carbohydrates - composition, classification, food sources, functions, Digestion, absorption storage in body.
2. Carbohydrates: reactions, functions of mono, oligo and poly sach chained in food.
3. Other sweetening agents Changes on cooking and processing.
4. Fat and oils composition, saturated, unsaturated fatty acids, classification, food sources functions of fats, digestion absorption.
5. Lipid : Nomenclature, classification, Physical properties, Emulsion and emulsifiers.

UNIT - III

1. Proteins-composition, sources, essential, non essential amino acids sources of proteins functions, protein deficiency (very brief).
2. Amino acids, Peptides, Physical and chemical properties of protein.
3. Denaturation.
4. Energy - unit of energy, food as sources of energy, energy value of food. The body's need for energy, B.M.R. activities for utilization of food to fat energy requirement.

UNIT - IV

1. Minerals- Functions, sources, and deficiency of following minerals-calcium, iron, iodine, fluorine, sodium, potassium (in very brief)
2. Enzymes: Nomenclature, definite specificity, catalysis regulations enzyme kinetics, Factor influencing enzyme activity.
enzymes inhibitors

UNIT - V

1. Vitamins - classification, unit of measurement, sources, functions and deficiency (very brief) about following vitamins:

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Fashion Designing

Semester-1

Textile Science

60 marks

Unit-I

- Introduction of the subject.
- Common Terminology used in textile.
- Properties of textile fibers.
- Classification history, source, composition, types, properties and management/production methods of fibers –
 - Natural fiber cotton, linen, silk, wool.
 - Manmade fiber- rayon
 - Thermoplastic fiber- nylon
 - Metallic fiber- gold

Unit-II

- Yarn-
 1. study of yarn- meaning
 2. Types of yarn
 3. Yarn making
 4. Yarn numbering, yarn count

Methods of fabric construction –

- Loom- types, parts of loom, core of loom
- Weaving- types of weave

Other methods of fabric construction- felting, knitting, crocheting, lacing.

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UNIT-III

- Finishes- meaning and purpose- types of finishes- physical and chemical, special purpose finishes.
- Traditional Indian textile- muslin, kinkab, patola, baluchery, pitamber, chanderi , brocade, mysore silk- History method of manufacturing uses of these textile, importance of them.
- Textile of Rajashthani & Maharashtra, type of dyeing of different types bandhej of Rajashthan.

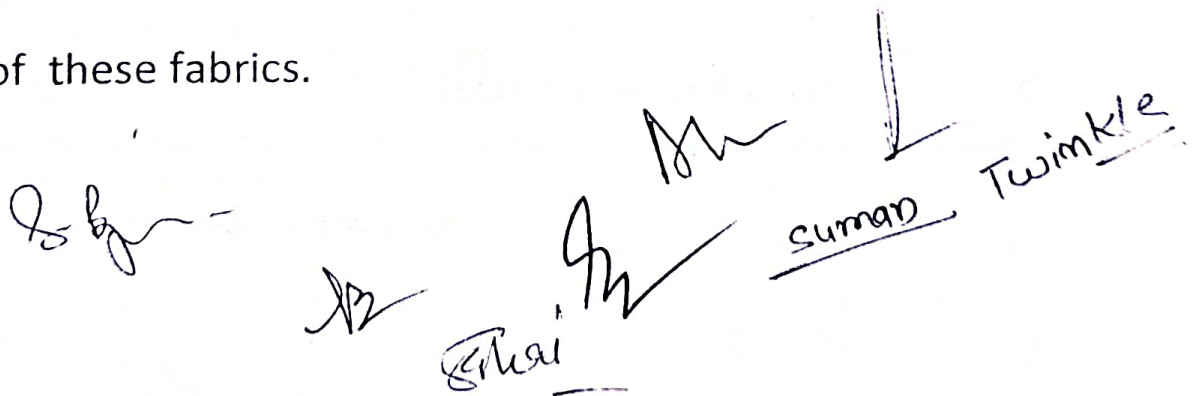
UNIT-IV

- Stain removal, technique, types, methods removal of stain.
- Dyeing methods- Stage of processing- fiber, yarn. Piece etc.
- Batik and block printing, methods and use of colour.
- House hold methods of dyeing.

UNIT-V Domestic textile- Characteristics uses of different domestic fiber- towel, Bed sheet , Aprons, Bath- Robe, sleeping boy, cleaning cloth,

Their uses and selection purpose of them.

Qualities of these fabrics.



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B.Sc. (Home Science (Second Semester))
MARKING SCHEMES
THEORY

Serial	Name of the Paper	Theory	Internal Assessment	Total Marks
1	English Language	60	15	75
2	Fundamental of food & Nutrition	60	15	75
3	Life Span Development	60	15	75
4	Textile & Laundry Science/FQ/FD	60	15	75

Practical

Serial	Name of the Practical	Marks
1	Fundamental of food & Nutrition	50
2	Life Span Development	50
3	Textile & Laundry Science	50

Total Marks-450

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BSc Home Science
SEMSTER -II
PAPER-I
FUNDAMENTALS OF FOOD & NUTRITION

Marks : 60

UNIT-I 1. **Concept of Nutrition** - Food; Nutrients. Nutrition- under & over Nutrition, Health & Nutrition

2. Functions of Food

3. **Nutrients : Macro nutrients**

- a. Classification, sources, functions
- b. Recommended Dietary Allowances
- c. Deficiency and excess (in brief)-

Water

Carbohydrates

Fats

Protein

Fiber

UNIT-II Vitamins & Minerals-

Calcium

Iron

Magnesium

Zinc

Fluorine

iodine, Selenium, Copper, Manganese

Fat-soluble vitamins -

Vitamin-A, D, E, K

Water soluble Vitamins -

Thiamine, Riboflavin, Niacin

Folic Acid

Pyridoxine, Panthotenic acid, B 12

Vitamin C,

UNIT-III Food Production (in brief), Food Composition Structure nutritional contribution and selection factors for the following:

Cereals and Millets

Pulses

Fruits

Vegetables

Milk and milk products

Nuts and oilseeds

UNIT -IV Food Production (in brief), Food Composition Structure nutritional contribution and selection factors for the following:

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- Meat, fish and poultry
- Eggs
- Sugars
- Tea, coffee, cocoa, chocolate and other beverages
- Condiments and spices
- Processed foods

UNIT-V Methods of Cooking, their Advantages and Disadvantages and Effect on Nutritive Value.

Improving Nutritional Quality of Foods-

- Germination
- Fermentation
- Supplementation
- Substitution
- Fortification and enrichment

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SECOND SEMESTER

PRACTICAL - I

SECTION-I

- 1- Type of Cells: Microscopic examination of prepared slides.
Epithelium- Stratified squamous, Ciliated columnar glandular
Connective tissue- Adipose, Bone areolar connective tissue, muscle- smooth, cardiac, stratified
- 2- Blood
Microscopic Examination of prepared slide
Fresh amount of blood
Stained blood smear
Testing of blood groups using anti sera
Estimation of coagulation time by using filter paper spot method
Hemoglobin estimation using heamo-cytometer
Estimation of ESR
- 3- Digestion: Identification test
Benedict test for sugar
Barford test for Strach
- 4- Estimation of Blood Pressure by Auscultatory methods

SECTION -II

- A. Use and care of kitchen equipments
 - Weights and measures – standard and household measures for raw and cooked foods
 - Use and care of kitchen equipments
 - Soft diet
 - bland diet
 - high and low fiber diet
 - High and low protein diet
 - High and low fat diet
 - High and low caboose diet
 - High and low sodium diet
 - High and low potassium diet
 - High and low calcium diet

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BSc (HOME SCIENCE)

Semester-II

PAPER - II

LIFE SPAN DEVELOPMENT, METHODS AND MATERIAL FOR YOUNG CHILDREN

Marks-60

UNIT-I

1. Life Span development and need to study development through the life cycle Inter-relationship between the aspects of development.
2. Prenatal Period - Review of prenatal development.
3. Infancy (0 to 2 years) and childhood period (2 to 12 years) - Definition, Characteristics and Developmental tasks. Review (2-6 yrs to 6-12 yrs) of different developmental areas (Physical, motor, Social, emotional, intellectual sensory and perceptual development) cognition piaget)

UNIT-II Adolescence (13 to 18 years)

1. Definition, Developmental tasks.
2. Physical Development - Puberty, growth, spurts, Primary and Secondary sex characteristics, early and late maturing adolescents.
3. Identity - Definition body image, positive and negative outcomes (Role confusion, ego-identity)
4. Heightened emotionality - Meaning causes, expression characteristics of emotional maturity, conflict with authority coping up strategies.
5. Problems- Drug and alcohol abuse, psychological breakdown (Behavior) STD and AIDS, Pregnancy.

UNIT-III Adulthood (19 to 60 years) and ageing- (Early adulthood 19 to 40 years) Definition and characteristics Development tasks, significance of the period, responsibilities and adjustment - New family, parenthood, independence, financial moters.

1. Middle Adulthood (41 to 60 years), Definition, physical changes (senses, diseases - Transitation Period.)
2. Menopause- Health issues.
3. Stresses in middle age, coping with stress to family.
4. Preparation for retirement.

UNIT-IV Late adulthood and Ageing - Definition.

1. Physiological changes, and health problems.
2. Retirement-effect of retirement on self family, society financial problems faced.
3. Recreational interest of the aged.
4. Issues- Old age homes, loneliness, living in joint family, prolonged illness (Plan visit to old age homes)
5. Death- preparation and coping strategies.

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UNIT-V Creativity

- * Concept of creativity and highlights of the role of creative expressions in overall development of children.
- * Creative expressions, Meaning and definition of creativity expressions.
- * Role of teacher in planning and fostering creative expressions.
- * Creative expressions through a variety of media i.e. painting. Printings.
- * Painting with brush, drawing with crayons, chalk, rangoli on floor, finger painting. (Some special characteristics of this medium)
- * Tearing, cutting, pasting and collage, mural

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Second semester Practical-II

Marks-50

Section -A

1. Visit to a pediatric ward to observe a new born baby and a premature baby.
2. Preparing a growth average height weight chart of 5 children from 1 to 3 years.
3. Study of immunization schedule
4. Survey of parents regulative awareness about weaning food, toys: and cloths.

Section-B (Any Ten)

1. Infancy and Toddlerhood

1. A file to be prepared to list activities appropriate for age groups - 0-6 months, 7-12 months, 13 to 20 months and 25 to 36 months.
2. Students be encouraged to observe materials available in the locality, Different type of shops, tailor.
3. Develop play materials suitable for each age group.
4. List activities, which can be used for working with different age groups
 - (a) 0 to 6 months.
5. Prepare materials and design activities for seeing, hearing touching and feeling.
6. Sensation and movement for soothing movements and exercises.
 - (b) 7 to 12 months.
7. Prepare materials and design activities for touching and feeling sensation an movement, and manipulation.
 - (c) 13 to 13 months.
8. Identify activities for gross motor development and prepare play materials available in the locality.
9. Prepare play materials and list activities promote manipulation sensory experiences concepts and language.

Art Activities

10. A few suggestions are given under each category as guideline students be encourage to explore experiment with each media and understand the characteristics of ead medium.
11. Samples of each be included in the resource file which each student is expected to maintain along with description of values materials and technique used.
12. Difficulty level of each activity be considered and decide its suitability for different age group.
 - * Painting and graphics.
 - * Prepare a variety of brushes from different types of brooms, cotton, wool, stich of cloth, feather etc.

Tearing cutting and pasting

13. 3-5 years
Tearing with all fingers tearing with thump and two fingers as used in holding pend tearing on straight line, curved line.
14. 6-8 years

The bottom of the page contains several handwritten signatures and scribbles. From left to right, there is a signature that looks like 'S. B.', another that looks like 'J. B.', a large scribble with the word 'Twinkle' written above it, a signature that looks like 'A. B.', and a signature that looks like 'Suman' with an arrow pointing down to it.

Tearing circular rings starting from one corner of the page till centre of page, Making designs.

15. 3-5 cutting and pasting

Cutting a design, pasting, please of paper, cloth, stick leaves collage most Printing.

Printing

16. Printing with strings, leaf, vegetable blocks, stencil printing, thumb, finger, spt. painting.
17. Keeping coins, leaves with veins below paper and gently colouring with crayon.

S. S.

JA TWINKLE
AN
Suman