

SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar Gujarat
Syllabus with the effect from the Academic Year 2023-24
B.Sc. (Home Sci.)(General) Sem. 1

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|-----------------------------|-------------|---------------------|-----------------------------|
| Course Code | UH01MAGEN01 | Title of the Course | Basic Concepts of Nutrition |
| Total Credits of the Course | 04 | Hours per Week | 04 |

| | |
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| Course Objective | <p>To Enable Students-</p> <ol style="list-style-type: none"> 1. Impart knowledge pertaining to different food groups, nutritive value and importance in daily diet. 2. Understand the functions of food and the role of various nutrients, their requirements, effect of deficiency and excess. 3. Familiarize students with different methods of cooking, their advantages and disadvantages. 4. Gain knowledge of improving nutritional quality of food |
|------------------|--|

| Unit | Course Content | Weightage* (%) |
|----------|---|----------------|
| Unit - 1 | Definition of food, Nutrition, functions of Foods, Basic five food Groups and their contribution to balanced diet. Energy, sources, function & deficiency. | 25 |
| Unit - 2 | Classification, sources, function and deficiency of Protein, Carbohydrate and Fat | 25 |
| Unit - 3 | Classification, sources, function, and deficiency of water-soluble vitamins: Thiamine, Riboflavin, Niacin, Pyridoxine, B12, folic acid and vitamin C Classification, sources, function, and deficiency of Fat-soluble vitamins: Vitamin A, D, E, K | 25 |
| Unit - 4 | Classification, sources, functions and deficiency of Minerals: Calcium, Phosphorus, Sodium, Potassium, Iron, Zinc, Fluorine, Iodine, Selenium, Magnesium Introduction of various cooking methods. | 25 |

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| Teaching-Learning Methodology | Lecture, Group Discussion, Quizzes, Expert talk, Experiential learning, Audio video aids |
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| Evaluation Pattern | | |
|--------------------|--|---------------|
| Sr. No. | Details of Evaluation | Weightage (%) |
| 1. | Internal Written Examination(As perCBCSR.6.8.3) | 30% |
| 2. | External Written Examination (As perCBCSR.6.8.3) | 70% |
| 3. | University Examination | 100% |

| Course Outcomes: | |
|---|---|
| Having completed this course, the learner will be able to | |
| 1. | Identify various food groups and would be able to judiciously use according to the source of availability |
| 2. | Identify various macro and micronutrients and their need in the body. |
| 3. | Distinguish between the various cooking methods and their advantages and disadvantages. |

| References | |
|------------|---|
| Sr No | References |
| 1. | Educational Planning group.(1991). Food and Nutrition: Text book of home science for senior students. (3rd ed). New Delhi: Arya publishing house. |
| 2. | Mudambi, S.R., & Rajagopal, M.V. (1982). Fundamentals of Nutrition. New Age International Ltd. |
| 3. | Roday, S. (2012). Food Science and Nutrition. Oxford University Press. |
| 4. | Mudambi, S. (2007). Fundamentals of Foods, Nutrition and Diet Therapy New Age Publications. |

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| On-line resources to be used if available as reference material |
| On-line Resources |
| Relevant entries on Wikipedia and Encyclopaedia Britannica |

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|-----------------------------|-------------|---------------------|-----------------------------|
| Course Code | UH01MAGEN02 | Title of the Course | Basic Concepts of Nutrition |
| Total Credits of the Course | 4 | Hours per Week | 8 |

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|-------------------|---|
| Course Objectives | To Enable Students- <ol style="list-style-type: none"> 1. Familiarize students with different methods of cooking, their advantages and disadvantages 2. Gain knowledge of improving nutritional quality of food. 3. Familiarize students with the controlling techniques by standardization of recipes |
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| Unit | Course Content | Weightage* (%) |
|------|---|----------------|
| 1. | Market survey of locally available food items viz. cereals, pulses, fruits, vegetables, milk and milk products, fats and oils, nuts and oilseeds, sugar and Jaggary, meat, fish, and poultry and miscellaneous food items like biscuits, jams, jellies, ketchup etc. and their cost | 05 |
| 2. | Introduction, use and care of kitchen equipment and Weights and Measurement Controlling techniques: Weights and measures - standard and household measures for raw and cooked foods, recipe and evaluation of the product Amount of ingredients to be used in standard recipe vis-à-vis, portion size | 05 |
| 3. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Carbohydrates. | 05 |
| 4. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Protein | 05 |
| 5. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of protein (incorporating combination of cereals and pulses) | 05 |
| 6. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Fat | 05 |
| 7. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Vitamin B1 (Incorporating fermentation and germination) | 05 |
| 8. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Vitamin B2 | 05 |

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| 9. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Niacin | 05 |
| 10. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Vitamin C | 05 |
| 11. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Iron | 05 |
| 12. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Vitamin A | 05 |
| 13. | Planning and preparation of recipe, assessing the nutritional quality, portion size and its application on treating the deficiency of Calcium | 05 |
| 14. | Preparation of recipe of with the use of Moist heat | 05 |
| 15. | Preparation of recipe of with the use of Dry heat | 05 |
| 16. | Preparation of recipe of with the use of fat as medium | 05 |
| 17. | Preparation of recipe of with the use of Combined method (Moist and Dry) | 05 |
| 18. | Preparation of recipe of with the use of Solar cooking | 05 |
| 19. | Preparation of recipe of with the use of Microwave cooking | 05 |
| 20. | Preparation of recipe of with the use of different modes of heat transfer like Radiation, conduction and convection. | 05 |

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| Teaching-Learning Methodology | Lecture, Group Discussion, Demonstration, Quizzes, survey, Experiential learning |
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| Evaluation Pattern | | |
|--------------------|------------------------|---------------|
| Sr. No. | Details of Evaluation | Weightage (%) |
| 1. | University Examination | 100% |

| Course Outcomes: Having completed this course, the learner will be able to | |
|---|---|
| 1. | Identify various food groups and would be able to judiciously use according to the source of availability |
| 2. | Identify various macro and micronutrients and their need in the body. |
| 3. | Distinguish between the various cooking methods and their advantages and disadvantages. |

| References | |
|------------|---|
| Sr No | References |
| 1. | Educational Planning group.(1991). Food and Nutrition: Text book of home science for senior students. (3rd ed). New Delhi: Arya publishing house. |
| 2. | Mudambi, S.R., & Raja gopal, M.V. (1982). Fundamentals of Nutrition. New Age International Ltd. |
| 3. | Roday, S. (2012). Food Science and Nutrition. Oxford University Press. |
| 4. | Mudambi, S. (2007). Fundamentals of Foods, Nutrition and Diet Therapy New Age Publications. |

| On-line resources to be used if available as reference material |
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| On-line Resources |
| Relevant entries on Wikipedia and Encyclopaedia Britannica |

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| | | | |
|-----------------------------|-------------|---------------------|---------------------------------------|
| Course Code | UH01MIGEN01 | Title of the Course | Fundamentals of Clothing and Textiles |
| Total Credits of the Course | 02 | Hours per Week | 02 |

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|--------------------|---|
| Course Objectives: | <ol style="list-style-type: none"> 1. To Understand importance of clothing 2. To develop basic skills in clothing construction 3. To impart knowledge of various fibers, yarns and fabrics used in textiles manufacture. |
|--------------------|---|

| CourseContent | | |
|---------------|---|---------------|
| Unit | Description | Weightage*(%) |
| 1. | <p>Introduction of Clothing</p> <ol style="list-style-type: none"> (a) Clothing terms (b) Importance of study of Clothing (c) Origin of clothing (d) Social and psychology function of clothing <p>Introduction to garment construction</p> <ol style="list-style-type: none"> (a) Garment Components (b) Designing, cutting, sewing, finishing (c) Selection and evaluation of readymade garments | 50 |
| 2. | <ol style="list-style-type: none"> a. Introduction to Textiles <ol style="list-style-type: none"> a) Terminologies of Textiles b) Importance and scopes of study of Textiles c) Classification of Textile fibers b. Textile Fibers and Yarn <ol style="list-style-type: none"> a) Properties, use & care of the natural and manufactured fibers b) Natural fiber: Wool, Silk, Cotton, Jute c) Regenerated and Synthetic fibers: Polyester, Nylon, Acrylic, Rayon, Acetate c. Regenerated and Synthetic fibers: Polyester, Nylon, Acrylic, Rayon, Acetate | 50 |

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| Course Outcomes: Having completed this course, the learner will be able to | |
| 1. | Understand and analyze basics of garment design. |
| 2. | Acquire skills in appropriate selection of readymade garments. |
| 3. | Understand various fibers, yarns and fabric construction methods, their typicality. |

| Evaluation Pattern | | |
|--------------------|---|---------------|
| Sr. No. | Details of the Evaluation | Weightage (%) |
| 1. | Internal Written Examination(AsperCBCSR.6.8.3) | 15% |
| 2. | External Written Examination (AsperCBCSR.6.8.3) | 35% |
| 3. | University Examination | 50% |

| Suggested References: | |
|-----------------------|--|
| Sr. No. | References |
| 1. | Narang, M. <i>Fashion Technology</i> . Delhi: Asia Pacific Business Press Inc. |
| 2. | Sumathi. (2002) <i>Elements of Fashion & Apparel Design</i> .G.I. New Age International Ltd. |
| 3. | Colchester, C.(1993). <i>Thenew Textiles</i> . Thames & Hudson Ltd. |
| 4. | Nakamar, A. (1996). <i>Fiber Science And Technology</i> . Oxford & IBH Pub. Bombay. |
| 5. | Dantyagi, S. (1996). <i>Fundamentals of Textiles and Their Care</i> . |
| 6. | Corbman, B.P. (1983). <i>Textile-Fibers to Fabrics</i> . Ms Graw Hill International Editions |

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| | | | |
|----------------------|-------------|---------------------|---------------------------------------|
| Course Code | UH01MIGEN02 | Title of the Course | Fundamentals Of Clothing And Textiles |
| Total Credits of the | 02 | Hours Per Week | 04 |

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|--------------------|---|
| Course Objectives: | <ol style="list-style-type: none"> 1. Understand, identify and acquire skills in basics of apparel construction. 2. Understand and analyze the garment components. 3. Develop skills in fiber, yarn and fabric identification based on construction technique. 4. Gain knowledge on relationship between method of fabric construction, Fabric count and fabric weight. |
|--------------------|---|

| CourseContent | | |
|---------------|---|---------------|
| Unit | Description | Weightage*(%) |
| 1. | Sewing machine –Care, threading &use of machine. a) Sewing machine attachments | 10 |
| 3. | Collection of textile components , its application &use a) Buttons, stud fastenings, eyelets, ribbon, lace, braid, buckle, chain, pins, rivets, poggles, zip | 10 |
| 4. | Readymade garment analysis-seam type, neckline finishes, fullness etc. | 10 |
| 5. | Fiber identification (microscopic appearance): a) Wool b) Silk c) Cotton d)Jute | 05 |
| 6. | Calculate fabric count: a) Polyester b) Nylon c)Acrylic d)Rayon e)Acetate | 05 |
| 7. | Study the weight per unit area: a) Wool b) Silk c) Cotton d)Jute e) Polyester f)Nylon g) Acrylic h) Rayon i)Acetate | 05 |
| 8. | Sample Collection and Fabric identification (05each) a) Woven fabrics b)Knitted fabrics c) Non-woven fabrics b) Novelty yarn–Loop, Slub, Ratine, Metallic | 05 |

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| Course Outcomes: Having completed this course, the learner will be able to | |
| 1. | Exhibit basic skills of construction and surface ornamentation. |
| 2. | Analyze the quality of construction and finishing of garments. |
| 3. | Understand and identify fibers, yarns and fabrics used in textile materials and its end use. |
| 4. | Acquire skills in identifying type of fabric and effect of count and weight on physical properties and performance characteristics of fabric. |

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| Evaluation Pattern | | |
| Sr. No. | Details of the Evaluation | Weightage (%) |
| 1. | University Examination | 50% |

| | |
|-----------------------|---|
| Suggested References: | |
| Sr. No. | References |
| 1. | Shaeffer, C. (2000). <i>Sewing for Apparel Industry</i> , New Jersey: Prentice Hall. |
| 2. | Sumathi. (2002) <i>Elements of Fashion & Apparel Design</i> . G.I. New Age International Ltd. |
| 3. | Dawn, J. (1999). <i>Textile Technology to GCSE</i> . Oxford university press. |
| 4. | Corbman, B.P. (1983). <i>Textile-Fibers to Fabrics</i> . Ms Graw Hill International Editions |
| 5. | Dantyagi, S. (1996). <i>Fundamentals of Textiles and Their Care</i> . |
| 6. | Sekhri S. (2013). <i>Textbook of Fabric Science: Fundamentals to Finishing</i> . New Delhi: PHI Learning. |

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| | | | |
|-----------------------------|-------------|---------------------|-----------------|
| Course Code | UH01IDGEN01 | Title of the Course | Basic Science-I |
| Total Credits Of the Course | 02 | Hours per week | 02 |

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|--------------------|---|
| Course Objectives: | <ol style="list-style-type: none"> 1. To impart basic information about the fundamentals of chemistry. 2. To provide knowledge regarding various acids, bases and salts. 3. To explain the concepts of cell structure and reproduction in plants. 4. To acquaint the students with fundamentals of Heat transfer. |
|--------------------|---|

| Course Content | | |
|----------------|--|----------------|
| Unit | Description | Weightage* (%) |
| 1. | Fundamentals of Chemistry: (a) Scope, usefulness and branches (b) Classification of matter and Laws of chemical combination, (c) Structure of atom, Bohr's Model of atom, Electronic Configuration, Atomic number, Mass number, Valence shell, and Valence electrons. (d) Modern Periodic table, Symbols, Radicals, Chemical Formulas, (e) Chemical Bonding and Chemical Reactions (f) Acid, Base and salts /pH: Acid (Definition, Properties and types),Base (Definition, Properties and types),pH- Definition, pH Scale, Explanation, Usefulness of pH. | 50 |
| 2 | Biological Science: (a) Introduction: Definition, major branches and brief history of biology. (b) Plant and animal cell (c) Form, Structure and function of vegetative and reproductive parts of seed-bearing plants (d) Unisexual and bisexual flowers. (a) Pollination, fertilization and reproduction in plants | 50 |

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| Teaching-Learning Methodology | Lectures, Interactive sessions, ICT enabled teaching and learning experiences in terms of video lessons, Discussion, Project Work, Demonstrations, Practical guidance |
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| Evaluation | | |
|------------|--|--------------|
| Sr. No. | Details of the Evaluation | Weightage(%) |
| 1. | Internal Written Examination(As perCBCSR.6.8.3) | 15% |
| 2. | External Written Examination (As perCBCSR.6.8.3) | 35% |
| 3. | University Examination | 50% |

| Course Outcomes: Having completed this course, the learner will be able to | |
|--|---|
| 1. | Revive their knowledge and understand the basic concepts in science. |
| 2. | Understand fundamental aspects of science and have a profound pillar for upcoming syllabus. |

| Suggested References: | |
|-----------------------|--|
| Sr. No. | References |
| 1. | G.d.tuli.,&b.s.bahl.(1983).intermediateinorganicchemistry.s.newdelhi: ramnagar,chand & company ltd. |
| 2. | P.L.Soni.,&Katyalm.(2007).TextbookofInorganicChemistry.Sultan:Chand&Sons. |
| 3. | DuttaA.C.(1980).A classbook of Botany. John Brown, Calcutta 13 :Oxford university press. Faraday House. |
| 4. | Sharma V.K.(1990).Biology class XI. Daryaganj: Publishers23. |
| 5. | Maheshwari P.Manoharlal (1996).BiologyPart1-7.NewDelhi-110002:NCERT |
| 6. | Kenneth W.(1975).Basic Physics. University of California, Irvine, NewDelhi : Oxford and IBH Publishing Co. |

| On-lineresourcestobeusedifavailableasreferencematerial |
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| Online Resources |
| http://www.edudel.nic.in/ |

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|-----------------------------|-------------|---------------------|-----------------|
| Course Code | UH01IDGEN02 | Title of the Course | Basic Science-I |
| Total Credits Of the Course | 02 | Hours per Week | 04 |

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|--------------------|--|
| Course Objectives: | <ol style="list-style-type: none"> 1. To make them understand Volumetric and inorganic Qualitative analysis. 2. To demonstrate parts of microscope and prepare slides. 3. To recognize the various parts of flowering plants. |
|--------------------|--|

| Course Content | | |
|----------------|--|----------------|
| Unit | Description | Weightage* (%) |
| 1. | Volumetric analysis of strong acid [HCl] and weak acids [oxalic acid/ Acetic acid] against strong base [NaOH], and strong base against weak acid | 10 |
| 2. | To prepare standard solutions of various concentrations. | 05 |
| 3. | To study the parts of Compound Microscope and its Uses. | 05 |
| 4. | To prepare temporary slides of onion peels for studying the cell Structure. | 10 |
| 5. | To prepare temporary slides of Rhoeopeel for studying the stomata and chloroplast. | 05 |
| 6. | To study atypical flowering plant body. | 05 |
| 7. | To study Unisexual and Bisexual flowers through dissection method (Dhatura, Hibiscus, Sunflower, Cucurbits) | 10 |
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| Teaching-Learning Methodology | Practical, ICT enabled teaching and learning experiences in terms of video lessons Discussion, By way of Demonstrations. |
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| Evaluation Pattern | | |
|--------------------|---------------------------|-----------|
| Sr. No. | Details of the Evaluation | Weightage |

| | | |
|----|------------------------|-----|
| 1. | University Examination | 50% |
|----|------------------------|-----|

| Course Outcomes: Having completed this course, the learner will be able to | |
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| 1. | Apply scientific methodology and demonstrate the ability to draw conclusions based on observation and analysis. |
| 2. | Recognize and apply concepts and theories of basic biological sciences. |
| 3. | Demonstrate connections with other subject areas. |

| Suggested References: | |
|-----------------------|--|
| Sr. No. | References |
| 1. | Mendham, J., R, Denney., JBarnes., K, Thomas. Vogel's <i>textbook of Quantitative Chemical Analysis</i> . (6 th ed.). |
| 2. | <i>An Advanced course in Practical Chemistry</i> , Ghoshal, Mahapatra, Nad. |
| 3 | Dutta A.C., John Brown, (1980) <i>A classbook of Botany</i> , Calcutta: oxford University press. Faraday House. |
| 4 | Sharma V.K.(1990) <i>Biology class XI</i> , New Delhi: 23,Daryaganj Publishers. |

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|-----------------------------|-------------|---------------------|-----------------------------|
| Course code | UH01SEGEN01 | Title of the Course | Communication and Extension |
| Total credits of The course | 02 | Hours per Week | 02 |

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|-------------------|--|
| Course objectives | <ol style="list-style-type: none"> 1) Understand the concept of communication and its role in exchange of information 2) Examine the models and barriers to communication 3) Learn about the concept of extension, extension approaches and models 4) Enhance the students in the selection and use of media in different socio-cultural environment |
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|-------------------|---|
| Learning outcomes | <ol style="list-style-type: none"> 1) Gain knowledge on the need and importance of communication and its significance in exchange of information 2) Analyze the models of communication and role of media in societal development 3) Perceive the importance of extension education 5) Acquire knowledge on the extension models and approaches |
|-------------------|---|

| Unit | Course content | Weightage (%) |
|---------|---|---------------|
| Unit -I | COMMUNICATION CONCEPT 1.1. Meaning, definition, nature, scope and importance of communication 1.2. Functions of communication - information function, command or instructive function, influence or persuasive function and integrative function 1.3. Elements of communication - three elements - source, message, receiver, four elements- encoding, decoding, sender and receiver, Five elements- communicator, communicate, message, channel and feedback. 1.4. Means of communication- oral, written, sign/ signal, action, object 1.5. Types of communication- formal and informal communication 1.6. Pattern – one way, two way, circular 1.7. Communication media- print and electronic media | 50% |

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| Unit -II | <p>Effective communication and extension</p> <p>2.1Characteristics - clear, correct complete and precise message, reliability, consideration of the recipient</p> <p>2.2Skills-observance,clarity and brevity, listening and understanding, self efficacy and self confidence</p> <p>2.3Significance - team work, team building, problem solving and decision making skills, facilitate creativity and reduces misunderstanding</p> <p>2.4Concepts relating to communication - perception, fidelity, communication gap, empathy, Homophily, Heterophily</p> <p>2.5Elements of extension communication system</p> <p>2.6Communication methods in extension- group method, mass method and individual method</p> | 50% |
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Learning Experience:

- Regular lectures, exercises, group discussion, team building exercise, case studies and field visit.

Evaluation

- Class test, presentation, assignments, seminars, records and report

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| Evaluation Pattern | | |
|--------------------|---------------------------|-----------|
| Sr. No. | Details of the Evaluation | Weightage |
| 1. | University Examination | 50% |

| Suggested References: | |
|-----------------------|--|
| Sr. No. | References |
| 1. | Dhama O.P. and Bhatnagar O.P. (1995). Education and Communication for Development. New Delhi: Oxford and IBH Co. |
| 2. | Gupta, D.(2007). Development Communication in Rural Sector. New Delhi: Mukhopadhyay Abhijeet Publication |
| 3 | Nisha, M. (2006). Understanding Extension Education. New Delhi: Kalpay Publications |
| 4 | Reddy. A.A. (2001). Extension Education. Bapatla: SriLaxmi Press |
| 5 | Rogers Everett, M.(2003).Diffusion of Innovations, 5 th Ed. New York: The Free Press |
| 6 | Singh, U.Kand Nayak, A.K. (2007). Extension Education. New Delhi: Common Wealth Publishers |
| 7 | Wilson,M.C., and Gallup,G. (1955). Extension Teaching Methods. Washington: US Department of Agriculture |

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Multidisciplinary Course on Introduction to Indian Knowledge Systems

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|-----------------------------|-------------|---------------------|---|
| Course Code | UH01IKHSC01 | Title of the Course | Introduction to Indian Knowledge Systems |
| Total Credits of the Course | 2 | Total Hours | 30 |

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| Course Objectives: | <p>The course will enable the student teachers to</p> <ul style="list-style-type: none"> • Examine the concept of Bhartiya concept of spirituality and its various paths. • Examine the Bhartiya philosophy of life derived from Shashtras (ancient scriptures) and its implications for the Bhartiya lifestyle. • Analyse the concept of Indian Knowledge Systems (IKS) and emphasize its importance in preserving and disseminating indigenous knowledge. • Highlight the contributions of IKS to the world, particularly in the fields of mathematics and astronomy. • Explore the Bhartiya wisdom related to life sciences. • Study the science of architecture in ancient India with reference to significant sites. • Provide an overview of Ayurveda, including its concepts, branches, important books, and pioneers in the field. • Explore Bhartiya literature and the Bhartiya theory of aesthetics and rasa in various art forms. |
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| Course Content | | |
|-----------------------|---|-----------------------|
| Unit | Description | Weightage* (%) |
| 1 | <p>Spiritual Bharat and Introduction to IKS</p> <ul style="list-style-type: none"> • Bhartiya Concept of Spirituality : Gyaan Marg, Bhakti Marg, Karm marg, Yog Marg • Bhartiya Spiritual Thinking Leading to Unity • Bhartiya Philosophy of Life Derived from Shashtras and its Implications for Bhartiya Life Style • Introduction to IKS and Its Importance • Introduction of Various Indian Knowledge Systems | 50 % |
| 2 | <p>Contribution of IKS to the World</p> <ul style="list-style-type: none"> • Bhartiya Contribution in Mathematics and Astronomy • Bhartiya Wisdom related to Life Science: Physics, Chemistry, Botany | 50 % |

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| | <ul style="list-style-type: none"> • Bharti Science of Architecture with reference to Lothal, Mohan Jo Daro, Dholavira, Temple Architecture • Ayurveda : Concept, Branches, Books and Pioneers • Bhartiya Literature and Bharti Theory of Aesthetics and Rasa | |
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|-------------------------------|--|
| Teaching-Learning Methodology | Lecture-cum-discussion, Group Discussion, Presentations, Seminars, tutorials, Research Exercises |
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| Evaluation Pattern | | |
|--------------------|---|-----------|
| Sr. No. | Details of the Evaluation | Weightage |
| 1. | Internal Written / Practical Examination Internal Continuous Assessment in the form of Practical, Vivavoce, Quizzes, Seminars, Assignments, Attendance | 30% |
| 2. | University Examination | 70% |

| Course Outcomes: Having completed this course, the learner will be able to | |
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| 1. | Understand the diverse paths of spirituality in Bhartiya culture, including Gyaan Marg, Bhakti Marg, Karm Marg, and Yog Marg, and recognize their significance in individual and collective spiritual growth. |
| 2. | Evaluate the Bhartiya philosophy of life derived from Shashtras and analyze its implications for contemporary Bhartiya lifestyles, fostering a deeper understanding of the connection between spirituality and everyday life. |
| 3. | Explain the concept of Indian Knowledge Systems (IKS) and recognize its importance in preserving and promoting indigenous knowledge, fostering a sense of cultural identity and pride. |
| 4. | Demonstrate knowledge of various Indian knowledge systems, such as Ayurveda, Vedic sciences, Yoga, Vedanta, and Jyotish, and appreciate their contributions to human knowledge and well-being. |
| 5. | Recognize and appreciate the significant contributions of IKS to the world, particularly in the fields of mathematics and astronomy, and understand their impact on modern scientific advancements. |
| 6. | Analyze the Bhartiya wisdom related to life sciences, including physics, chemistry, and botany, as described in ancient texts, and understand their relevance and potential applications in contemporary scientific research. |

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| 7 | Identify and analyze the unique architectural features and principles of ancient Indian sites like Lothal, Mohenjo-daro, Dholavira, and temple architecture, understanding their cultural, historical, and spiritual significance. |
|---|--|

Suggested References:

- જયેન્દ્ર દવે . (૧૯૮૬). ભારતીય ચિંતકોનું શિક્ષણ ચિંતન. અમદાવાદ: યુનીવર્સિટી ગ્રંથ નિર્માણ બોર્ડ
- જુગલ કિશોર શર્મા. (૨૦૦૦). પુષ્પભૂમિ ભારત. કર્ણાવતી: સાધના પુસ્તક પ્રકાશન
- સ્વામી વિદિતાત્માનાન્દજી (૧૯૯૪). ભારતને ઓળખીએ. અમદાવાદ: રીલાયેબલ પબ્લીકેશન
- Radhakrishnan, S. (1992). The Hindu View of Life. HarperCollins Publishers.
- Singh, A. P., & Yagnik, S. (Eds.). (2019). Indian Knowledge Systems: Understanding the Human Uniqueness. Springer.
- Frawley, D., & Ranade, S. (2001). Ayurveda, Nature's Medicine. Lotus Press.
- Lad, V., & Frawley, D. (1986). The Yoga of Herbs: An Ayurvedic Guide to Herbal Medicine. Lotus Press.
- Dasgupta, S. (1947). A History of Indian Philosophy. Cambridge University Press.
- Pollock, S. (2006). The Language of the Gods in the World of Men: Sanskrit, Culture, and Power in Premodern India. University of California Press.
- Sarma, K. V. (2008). Indian Astronomy: A Source-Based Approach. National Council of Education Research and Training.
- Narlikar, J. V., & Padmanabhan, T. (Eds.). (2016). Development of Physics in India. Springer.
- Mahdihassan, S. (1982). Ancient Indian Botany: Its Bearing on Art and Literature. Deccan College Post-Graduate and Research Institute.

Online References :

- Indian Knowledge Systems Vol 1 <https://iks.iitgn.ac.in/wp-content/uploads/2016/01/Indian-Knowledge-Systems-Kapil-Kapoor.pdf>
- <http://www.indianscience.org/index.html>
- Traditional Knowledge Systems of India <https://www.sanskritimagazine.com/india/traditional-knowledge-systems-of-india/>
- <https://orientviews.wordpress.com/2013/08/21/how-colonial-india-destroyed-traditional-knowledge-systems/>
- <https://www.thebetterindia.com/63119/ancient-india-science-technology/>
- <https://orientviews.wordpress.com/2013/08/21/how-colonial-india-destroyed-traditional-knowledge-systems/>

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| Course Code | UH01AEENG01 | Title of the Course | Functional English |
| Total Credits | 02 | Hours Per Week | 02 |

| Course Content | | |
|-----------------------|--|-----------|
| | Description | Weightage |
| 1 | <p>A Speaking:</p> <ol style="list-style-type: none"> Self Introduction Describe a person, place or situation Greeting, Asking and giving information, requesting, asking for permission Everyday conversations. <p>B Listening</p> <ol style="list-style-type: none"> Simple Conversations based on familiar situations Specific information Announcements Identify key words and phrases in short dialogues Comprehend simple spoken information in familiar contexts. <p>C Reading:</p> <ol style="list-style-type: none"> Read and understand basic vocabulary and sentences. Identify familiar words and phrases in short texts. Comprehend simple information from signs, labels, and menus. Read and understand simple passages | 50% |
| 2 | <p>A Writing</p> <ol style="list-style-type: none"> Write answers to questions from Passages Write leave application, apology and request letters Write a Paragraph on the given Topic <p>B Grammar & Vocabulary</p> <ol style="list-style-type: none"> Articles Make correct use of Concord or Subject-Verb Agreement Form words properly using prefixes/ suffixes <ol style="list-style-type: none"> Prefixes / Suffixes Prepositions of Place, Time and Direction Questions Tags | 50% |

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| Teaching-Learning Methodology | Using Audio-Video material Group work and pair work | Interactive method Role Paly |
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| Evaluation Pattern | | |
|--------------------|--|-----------|
| Sr. No. | Details of the Evaluation | Weightage |
| 1. | Internal Written Examination (As Per CBCS R.6.8.3) | 15% |
| 2. | Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments (As Per CBCS R.6.8.3) | 15% |
| 3. | University Examination | 70% |

| Course Outcomes: Having completed this course, the learner will be able to | |
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| 1. | Give personal Information and follow simple instructions |
| 2. | Understand basic spoken conversations and longer discourse. |
| 3. | Use language functions for basic conversation, descriptions, talk about family, introduce themselves, for shopping, enquiry etc. |
| 4. | Read and understand simple texts. |
| 5. | Write formal letters to seek permission, leave and apology and write simple paragraphs. |

| Suggested References: | |
|-----------------------|---|
| Sr. No. | References |
| 1. | Practical English Grammar, A. J. Thomas & A.V. Martinet |
| 2. | Living English Structure, Standard Allen, Longman |
| 3. | A Comprehensive English Language Course, Chandak Chattarji, Orient Longman |
| 4. | Developing Communication Skills, K. Mohan and M. Banerji, McMillan, Chennai |
| 5. | Grant Taylor. English Conversation Practice. (Tata McGraw Hill, New Delhi) |
| 6. | R P Bhatnagar and R T Bell (1999) Communication in English, (Orient Longman, Hyderabad) |
| 7. | Books / Audio-Visual Course Recommended 1) Learn English Teens – (20 episodes, British Council) 2) Spoken English — D Sasikumar and PV Dhamija. (With Audio Cassette) (Tata Mcgraw Hill Publication Ltd, New Delhi) (Units 1-13) 3) Keep Up Your English, BBC by Standard Allan |
