

**C21\_ Curriculum**  
**DIPLOMA IN HOME SCIENCE**



**OFFERED BY**  
**STATE BOARD OF TECHNICAL EDUCATION & TRAINING,**  
**TELANGANA: HYDERABAD**

## I SEMESTER

Sl No	Course Code	Course Name	Teaching Scheme					Examination Scheme						
			Instruction Periods per week			Total Periods per semester	Credits	Continuous internal evaluation			Semester end examination			
			L	T	P	Mid Sem1		Mid Sem 2	Internal Evaluation	Max Marks Min Marks	Total Marks	Min marks for Passing including internal		
1	HU-101	Basic English	3.33	1.66	0	75	3	20	20	20	40	14	100	35
2	HS-102	Fundamentals of Nutrition	4	1	0	75	3	20	20	20	40	14	100	35
3	HS-103	Fundamentals of Textile Science	4	1.	0	75	3	20	20	20	40	14	100	35
4	HS-104	Principles of Child Development	4	1	0	75	3	20	20	20	40	14	100	35
5	HS-105	Health and Beauty Care	4	1	0	75	3	20	20	20	40	14	100	35
6	HS-106	Basic Food Science Lab	1	0	2	45	1.5	20	20	20	40	20	100	50
7	HS-107	Fundamentals of Garment Construction Lab	1	0	2	45	1.5	20	20	20	40	20	100	50
8	HS-108	Sketching, Drawing & Painting Lab	1	0	2	45	1.5	20	20	20	40	20	100	50
9	HS-109	Beauty Clinic Lab	1	0	2	45	1.5	20	20	20	40	20	100	50
10	CS-110	Basic Computer Science Lab	1	0	2	45	1.5	20	20	20	40	20	100	50
11	HS-111	Skill Upgradation	0	0	8	120	2.5	0	0	Seminars, PPT Presentations			--	-
11	Activities: student performance is to be assessed through Rubrics.													

## HU-101 - Basic English

Course Title	Basic English	Course Code	HU-101
Semester	I	Course Group	Foundation
Teaching Scheme in Minutes (L:T)	50:25	Credits	3
Methodology	Communicative Language Teaching + Assignments	Total Contact Hours	75
CIE	60 Marks	SEE	40 Marks

**Prerequisites: Basic knowledge of English Language**

### COURSE CONTENTS

#### MODULE 1: VOCABULARY

**Duration: 12 Periods – ( L 8 P 4 )**

1. How to Use a Dictionary
  - a) How to locate a word
  - b) Different kinds of dictionaries
  - c) Uses of dictionaries and digital dictionaries
2. Building Vocabulary
  - a) Words from other languages – Greek, Latin, French, Sanskrit, Hindi, and Telugu.
  - b) Words from names of people (Eponyms) with focus on terms used in science and technology.
  - c) Word Forms – Focus on words from Science and Technology.
3. Words Often Confused
  - a) Homonyms, Homophones.
  - b) Heteronyms, Heterophones
  - c) Capitonyms

#### MODULE 2: READING

**Duration: 12 Periods – ( L 8 P 4 )**

1. Purpose of Reading
2. Types of Reading
3. Types of Paragraphs and Questions ( F I V E )

#### MODULE 3: SPEAKING

**Duration: 12 Periods – ( L 8 P 4 )**

1. Need for English
2. Classroom English

3. Expressing Feelings
4. Expressing Likes & Dislikes
5. Making Requests
6. How to Introduce Oneself
7. Expressing obligations.

**MODULE 4: GRAMMAR I**

**Duration: 12 Periods – ( L 8 P 4 )**

1. Basic Sentence Patterns
2. Tenses
3. Voice

**MODULE 5: GRAMMAR II**

**Duration: 15 Periods – ( L 10 P 5 )**

1. Adjectives
2. Prepositions
3. Asking Questions

**MODULE 6: WRITING**

**Duration: 12 Periods – ( L 8 P 4 )**

1. Paragraph Writing – I
2. Paragraph Writing – II
3. Letter Writing – I
4. Letter Writing – II

**COURSE OUTCOMES**

<b>No.</b>	At the end of the course, the students will have the ability to:
<b>101.1</b>	Use a dictionary and acquire vocabulary for social interaction.
<b>101.2</b>	Comprehend, identify main ideas, make inferences, visualize, and answer questions. Analyze and evaluate the written material.
<b>101.3</b>	Speak and write grammatically correct sentences, communicate effectively, express their likes, dislikes, feelings, make requests, express obligations and introduce themselves.
<b>101.4</b>	Use verbs in the different tenses according to the situations. Use Voice to express an action clearly
<b>101.5</b>	Describe people and objects, ask questions, use prepositions and write grammatically correct sentences.
<b>101.6</b>	Convey ideas in the form of paragraphs and letters

**CO-PO Matrix**

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	Mapping POs
101.1	-	-	-	-	3		3	5,7
101.2	-	-	-	-	3	2	3	5,6,7
101.3	-	-	-	-	3	3	3	5,6,7
101.4	-	-	-	-	2	2	3	5,6,7
101.5	-	-	-	-	2	2	3	5,6,7
101.6		-	--	--	2		3	5,7

Test	Units	Marks	Pattern
<b>Mid Sem- I</b>	1. Vocabulary 2. Reading	20	Part A: 4 short answer questions Part B: 2 short essay questions with internal choice Part C: 2 essay questions with internal choice
<b>Mid Sem - II</b>	1. Speaking 2. Grammar-1	20	Part A: 4 short answer questions Part B: 2 short essay questions with internal choice Part C: 2 essay questions with internal choice
<b>Slip Test 1</b>	1. Vocabulary 2. Reading	5	2 questions out of 3 questions
<b>Slip Test 2</b>	1. Speaking 2. Grammar-1	5	2 questions out of 3 questions
<b>Assignment</b>	One assignment per one semester	5	Different assignments of higher order questions that develop problem solving skills and critical thinking should be given
<b>Seminars</b>	One seminar per one semester	5	Oral presentations using audio–visual equipment, charts, etc.
	<b>Total</b>	<b>60</b>	

<b>MID SEM - I EXAM</b>					
S. No.	Unit Name	R	U	A	Remarks
1	Unit - I	1, 2	5 (a) 5 (b)	7 (a) 7 (b)	
2	Unit - II	3, 4	6 (a) 6 (b)	8 (a) 8 (b)	
Total Questions		4	4	4	
<b>MID SEM - II EXAM</b>					
S. No.	Unit Name	R	U	A	Remarks
1	Unit - I	1, 2	5 (a) 5 (b)	7 (a) 7 (b)	
2	Unit - II	3, 4	6 (a) 6 (b)	8 (a) 8 (b)	
Total Questions		4	4	4	

<b>SEMESTER END EXAM</b>						
Sl. NO.	Unit No.	Question to be set for SEE			Remarks	
		R	U	A		
1	I	4	1	9 (a)	13 (a)	
2	II					
3	III		2	10 (a)	14 (a)	
4	IV					
5	V		3	5, 6	9 (b)	13 (b)
					11 (a)	15 (a)
					11 (b)	15 (b)
6	VI			7, 8	10 (b)	14 (b)
		12 (a)			16 (a)	
		12 (b)			16 (b)	
Total Questions		8	8	8		

**Legend:**

**Remembering: one mark**

**Understanding: three marks**

### **Application: five marks**

#### **Suggested Student Activities:**

- Practice conversation / dialogue / speech and answer the questions.
- Group discussions.
- Seminars.
- Review a movie.
- Review a book.
- Narrating a story.
- Chain stories.
- JAM.
- Speak about incidents /events /memories /dreams /role model.
- Interviews of famous personalities.
- Reading for main ideas and specific details.
- Summarizing.
- Picture description.
- Writing a recipe.
- Describing a process.
- Giving directions using maps.
- Surveys.
- Filling forms.
- e-mail etiquette.
- Preparing reports on field visits, experiments, projects.
- General English for competitive exams – Practice the previous year’s question papers of SSC, RRB, TS TRANSCO, TSGENCO, etc.

#### **REFERENCES:**

1. Practical English Grammar by A.J Thomson and A.V. Martinet
2. A Course in Phonetics and Spoken English by J. Sethi and P.V Dhamija
3. Word Power Made Easy by Norman Lewis.
4. Keep Talking by Friederike Klippel.
5. More Grammar Games by Mario Rinvoluceri and Paul Davis.
6. Essential English Grammar by Raymond Murphy.
7. Spoken English-A Self Learning Guide to Conversation Practice by V Sasi Kumar.

**E-learning resources:**

1. [www.duolingo.com](http://www.duolingo.com)
2. [www.bbc.co.uk](http://www.bbc.co.uk)
3. [www.babbel.com](http://www.babbel.com)
4. [www.merriam-webster.com](http://www.merriam-webster.com)
5. [www.ello.org](http://www.ello.org)
6. [www.lang-8.com](http://www.lang-8.com)
7. [youtube.com](http://youtube.com)
8. Hello English (app)
9. [mooc.org](http://mooc.org)
10. <https://onlinecourses.nptel.ac.in>
11. <https://www.indeed.com/career-advice/>
12. [Dictionary.com](http://Dictionary.com)
13. [Online Dictionaries](http://Online Dictionaries)
14. <https://englishsentences.com>
15. <https://englishcub.com/vocabulary/dictionary-thesaurus.htm>
16. TEDx talks.
17. Toastmasters International on YouTube.

**BOARD DIPLOMA EXAMINATION (C-21)**  
**MID SEMESTER EXAMINATION – I**  
**HU-101-BASIC ENGLISH**

**Time: 1 Hour**

**Total Marks: 20**

**PART - A**

**1 X 4 = 4**

*Instructions: Answer all the questions. Each question carries one mark.*

1. Choose the correct guide words for the following words.

1. Pool:

- |                  |                   |
|------------------|-------------------|
| a. Play, Portico | b. Poem, Poet     |
| c. Prosper, Pull | d. Porpoise, Pout |

2. Monkey:

- |                |                |
|----------------|----------------|
| a. Money, Monk | b. Mole, Mount |
| c. Moon, Most  | d. More, move  |

2. \_\_\_\_\_ is the Unit of Electric Current in SI Units named after Andre Marie Ampere.

3. Read the following passage and answer the question.

There once was a Bald Man who sat down after work on a hot summer's day. A Fly came up and kept buzzing about his bald pate, stinging him from time to time. The Man aimed a blow at his little enemy, but his palm came on his head instead; and again the Fly tormented him. But this time the Man was wiser, and said: "You will only injure yourself if you take notice of despicable enemies."

i) How can you say that the man has become wiser?

4. Read the following passage and answer the question.

An Eagle was soaring through the air when suddenly it heard the whizz of an Arrow, and felt itself wounded to death. Slowly it fluttered down to the earth, with its life- blood pouring out of it. Looking down upon the Arrow with which it had been pierced, it found that the shaft of the Arrow had been feathered with one of its own plumes. "Alas!" it cried, as it died. "We often give our enemies the means for our own destruction."

i) What did the eagle discover before its death?

**PART - B**

**3 X 2 = 6**

*Instructions: Answer the following questions. Each question carries three marks*

5. a) Read the following and use correct words in the blanks.

I went to \_\_\_\_\_ (meat/ meet) the \_\_\_\_\_ (Principle / Principal) but he was on \_\_\_\_\_ (live/ leave) for a \_\_\_\_\_ (weak / week). I had to \_\_\_\_\_ (weight / wait) in the room before I was \_\_\_\_\_ (allowed / aloud) to go out.

( OR )

b) Use the following set of words in sentences of your own to express the difference in the meaning.

i) break - brake      ii) stationery - stationary      iii) waste - waist

6. a) Read the passage and answer the questions.

When I woke up it was broad daylight and the weather had cleared. The storm abated. The Ship was lifted off at night from the sand where she lay by the tie and was driven up almost as far as the rock where I have been bruised by the dashing. As the ship was upright and within a mile, I wish to board it to save necessary things for my use.

- (i) How was the weather in the morning?
- (ii) What had happened to the ship at night?
- (iii) Why did he wish to board the ship?

( OR )

b) Read the passage and answer the questions.

O. Henry's original name was William Sidney Porter, he was born on 11th September, in 1862, Greensboro, North Carolina, U.S. He died on 5th June, 1910, New York. He was an American short story writer whose tales romanticized the commonplace - in particular the life of ordinary people in New York City. His stories expressed the effect of coincidence on character through humour, grim or ironic, and often had surprise endings, a device that became identified with his name and cost him critical favour when its vogue had passed.

- (i) Who was William Sidney Porter?
- (ii) What did his stories deal with?
- (iii) What was the name he took up to write stories?

**PART-C**

**5 X 2 = 10**

*Instructions:* Answer the following questions. Each question carries five marks

7. a) Write the basic uses of a dictionary.

( OR )

b) How will you look up the word, “Travel”, in the dictionary.

8. a) Read the passage and answer the questions.

An owl is a bird. There are two basic types of owls: typical owls and bam owls. Owls live in almost every country of the world. Owls are mostly nocturnal, meaning they are awake at night. Owls are predators – they hunt the food that they eat. Owls hunt for mince and other small mammals, insects and even fish. Owls are well adapted for hunting. Their soft, fluffy feathers make their flight nearly silent. They have very good hearing which helps them to hunt well in the darkness. The sharp hooked beaks and claws of the owl makes it very easy to tear apart their prey quickly, although owls also eat some prey whole.

Owl’s eyes are unusual. Like most predators, both the eyes of the owl face front. The owl cannot move its eyes. Owls are far – sighted, which means they can see very well far away.... But they can’t see dose very well at all. Fortunately, their distant vision is what they use for hunting and they see far away even in low light. Owls have facial disks around their eyes, tufts of feathers in a circle around each eye. These facial disks are thought to help the Owl’s hearing. Owls can turn their heads 180 degrees is all the owl needs to see what’s going on all around it. Perhaps because of the Owl’s mysterious appearance, especially its round eyes and flexible neck, there are a lot of myths and superstitions about Owls. Many cultures believe that Owls are unusually wise. Because owls are nocturnal, some cultures associate owls with bad omens. The screech of the bam owl is considered by many to sound early human, like a person screaming. However, owls probably do not interact with fates of human at all. In fact, some owl species may become extinct because of humans.

- (i) How can you say that an owl is a predator? List a few special features present in predators.
- (ii) What helps owls in hunting?
- (iii) Why are myths and superstitions associated with an owl?
- (iv) Pick out the words from the passage which means:
  - a) A sign of something that will happen in the future.
  - b) In a strange frightening mysterious way.
- (v) What will you do if you see an owl with owlets in your college premises?

( OR )

b) Read the passage and answer the questions.

Marie Curie was born in Poland in 1867. She was the youngest of five children. Her father was a professor. Marie won a gold medal when she graduated from high school. She and her sister did private tutoring to earn money. At Sorbonne University she studied Mathematics and Physics. She earned a master's degree in Physics and with the help of a scholarship earned a master's in Mathematics. Later she received a doctorate in Physics. She met Pierre Curie and married him in 1895. Together they discovered two new radioactive elements. They named them Polonium and Radium. They received the Nobel Prize in the year 1903 for the discovery of Radioactivity along with Hennery Becquerel. In 1911 she received another Nobel Prize for the discovery of Polonium and Radium. In 1923 the French government gave her a pension of forty thousand Francs a year in recognition of her lifetime work in France. Many people have benefited from the discoveries made by Pierre and Marie Curie.

- (i) When and where was Marie Curie born?
- (ii) Why were they awarded the Nobel Prize?
- (iii) Write the antonyms for the following words:
  - a) Benefit
  - b) Youngest
- (iv) Why did the French government give her a pension?
- (v) How can you say many people have benefitted from discoveries made by Pierre and Marie Curie?

**BOARD DIPLOMA EXAMINATION (C-21)**  
**MID SEMESTER EXAMINATION – I**  
**HU-101- BASIC ENGLISH**

**Time: 1 Hour**

**Total Marks: 20**

**PART - A**

**1 X 4 = 4**

*Instructions: Answer all the questions. Each question carries one mark.*

1. Write a sentence to express the trait you like in your friend.
2. Rewrite the sentence using a word of obligation.
  - a) The teacher advised the students to work hard in order to get good marks.
3. Read the following sentence and write the sentence pattern.
  - a) I teach students.
  - b) Farmers are hard working.
4. Fill in the blank with the appropriate form of the verb.
  - a) He \_\_\_\_\_ (live) in that house since 2015.

**PART - B**

**3 X 2 = 6**

*Instructions: Answer the following questions. Each question carries three marks.*

5.
    - a) Write one expression used by the teacher.
      - (i) When the Class is noisy.
      - (ii) When a student is distracted.
      - (iii) When a student is permitted to leave early.
- OR**
- b) Write the feelings you express in the following situations.
    - (i) The train you have been waiting for hours has been cancelled.
    - (ii) Your mother says she is proud of you.
    - (iii) You forgot that a holiday was declared and went to college.
6.
    - a) Change the voice of the following sentences.
      - (i) He eats only vegetarian food.
      - (ii) Ethical hacking has been learnt by Gaurav.
      - (iii) Submit your application.

**OR**

- b) Fill in the blanks with simple past and past continuous forms of the verbs given in the brackets.

When the children \_\_\_\_i\_\_\_\_ (Play) in the park, they \_\_\_\_ii\_\_\_\_ (hear) the whimper of a small puppy. The friends \_\_\_\_iii\_\_\_\_ (search) under the bushes and

\_\_\_\_iv\_\_\_\_ (find) a white puppy. When they \_\_\_\_v\_\_\_\_ (try) to pacify it a big dog suddenly \_\_\_\_vi\_\_\_\_ (appear).

**PART-C**

**5 X 2 = 10**

*Instructions: Answer the following questions. Each question carries five marks.*

7.

- a) Write three difficulties faced by students while learning English. Give suggestion to overcome these difficulties.

**OR**

- b) Write your introduction in a formal situation (You are Anish studying in class XII)

8.

- a) Write a sentence using each of the given sentence patterns.

a) S V                      b) S V O                      c) S V S C                      d) S V O OC

e) SVIODO

**OR**

- b) Write your routine using ten verbs.

**BOARD DIPLOMA EXAMINATION (C-21)**  
**END SEMESTER EXAMINATION**  
**HU-101- BASIC ENGLISH**

**Time: 2 Hours**

**Total Marks: 40**

**PART – A**

**8 X 1 = 8**

**Instructions:** *1. Answer all the questions.*

*2. Each question carries one mark.*

1. Read the sentence and capitalize the words which represent the name of a country, month:
  - a. He bought a jersey in jersey.
  - b. They may come in may.
  
2. Rewrite the following sentence in the form of a request: to a friend, to your teacher.  
Lend me your pen.
  
3. Frame “Yes” or “No” question for the following statement.  
I have understood the problem.
  
4. Write the feeling you undergo in the following situation.  
You see a small child working in a hotel at mid night while returning from a party.
  
5. Fill in the blanks with suitable prepositions.  
Sreeni was angry \_\_\_\_\_ her mother \_\_\_\_\_ not permitting her to go to a late-night party.
  
6. Write a sentence about your teacher using two adjectives.
  
7. Write the salutation written to your friend while writing a letter.
  
8. Read the given paragraph and write the topic sentence.

The white Rhino is the largest mammal weighing around 300 Kgs. It has become endangered as humans hunt it for its horns. It has a wide mouth used for grazing and is the most social of all rhino species. White rhinoceroses are found in grassland and savannah habitat. [Herbivore grazers](#) that eat grass, preferring the shortest grains, the white rhinoceros is one of the largest pure grazers. It drinks twice a day if water is available, but if conditions are dry it can live four or five days without water. It spends about half of the day eating, one third resting, and the rest of the day doing various other things.

**PART- B**

**4 X 3 = 12**

**Instructions:** *1. Answer the following questions.*

*2. Each question carries three marks.*

9.
  - a) Read the following passage and answer the questions.

During the summer holidays, I lost my phone. And for the week that I was phoneless, it felt like a disaster. I love my phone. It gives me quick access to information and allows me to constantly be looped in with my friends, to know exactly what is going on in their lives. So, when I didn't have my phone for a week, I felt a slightly sense of FOMO, or if you are not up to speed with the lingo, fear of missing out. By the end of the week, I would have got used to not having a phone and I would have enjoyed the break from social media. But there was still a lingering sense of sadness at the back of my mind that there would be conversations I had missed, messages that there would be conversations I had missed, messages that had been sent, funny videos shared and night time chats that I would probably never get to see.

- i. What felt like a disaster to the writer?
- ii. Why does the writer love his phone?
- iii. How did the writer feel without the phone?

**OR**

- b) Read the following passage and frame two "Wh" questions and one "Yes No" questions:

Dr Seuss was born on March second 1904. He was an American cartoonist and writer. His real name was Theodor Seuss Geisel. He was born in Springfield, Massachusetts. Dr Seuss liked draw and write even as child. The first book that Dr Seuss wrote was titled "And to think that I saw it on Mulberry Street". He wrote it while on a ocean voyage, returning from a trip to Europe. The rhythm of the ship's engine gave him the feeling for the poetry rhythm in the story. Dr Seuss was not a real doctor. He added the "Dr" to his name to honour his dad, who wanted Theodor to become a doctor. Even though he never became a real doctor, he did write books that helped millions of kids to read. Dr Seuss had also used other names, pen names to write books. These names include Theophrastus Seuss, Theo Le Sieg which is his real name spelled backwards, and Rosetta stone. Dr Seuss wrote more than sixty children's books including some which have been made into movies such as "The Lorax", "The Cat in the Hat", "Horton Hears a Who", and "How the Grinch Stole Christmas". He wrote lots of books for children, even though he and his wife never had children of their own. He died at age 87 in San Diego California, USA.

10.

- a) Write as directed.
  - a) Write a sentence expressing what you like about the rainy season.
  - b) Rewrite the sentence using a word of obligation:  
The Doctor told the patient to reduce the intake of salt, if he wants the healthy life.
  - c) Write two hobbies you would express while giving your introduction.

**OR**

- b) Write a paragraph in 100 words about a festival you like.
- 11.
- a) Fill in the blanks with the proper order of adjectives given in brackets
- a) He ate \_\_\_\_\_ (green/ English / round / some) apples.
- b) She has \_\_\_\_\_ (lot of / old / interesting) books.
- c) My grandmother had always been \_\_\_\_\_ (slightly bend / fat / short).

**OR**

- b) Fill in the blank with adjectives or prepositions.
- Tiger is a \_\_\_\_\_ animal that lives \_\_\_\_\_ forests. It is \_\_\_\_\_ animal as it feeds \_\_\_\_\_ other animals. Tigers are very \_\_\_\_\_. The body \_\_\_\_\_ tigers is red or orange with black stripes.
- 12.
- a) Write a letter to your friend asking him to write about his college.

**OR**

- b) Write a paragraph on the importance of physical exercise.

**PART-C**

**4 X 5 = 20**

*Instructions: 1. Answer the following questions.  
2. Each question carries five marks.*

- 13.
- a) Write about five different kinds of dictionaries.

**OR**

- b) Read the following passage and write three “Wh” questions and two “yes No” questions.

One of the results of Technology and population growth is increase of pollution throughout the world. According to United Nation’s report the future of all life on earth will be endangered. If man does not control contamination of the environment, It is time, we learn the full extent of the dangers that face mankind.

For instance, here in Egypt, look at River Nile. It is strange to see how everything is thrown into it as if it were litter basket. Instead of keeping it clean and pure, we pollute it. We our-selves, not our enemies, dirty it with our own hands. Some farmers wash themselves, their clothes, their animals, their pots and pans in its water. They even throw away their dead animals, and birds into it. Some people living in cities and towns throw their old tyres and broken bottles and rusty tins into it. Factories throw their waste chemicals and garbage. In this way the Nile water gets poisoned, kills fish, poisons land, weakens crops and destroys health.

So, it would be foolish to shut our eyes to the dangers of the pollution that man causes to the very thing on which his life depends. Please keep Nile clean.

14.

- a) Write five problems faced by students while learning English. Write your suggestions to overcome these problems.

**OR**

- b) Write a paragraph about Covid-19 pandemic in 150 words.

15.

- a) Describe your favourite place using ten adjectives.

**OR**

- b) Fill in the blanks with suitable prepositions.

He lives \_\_\_\_\_ (in / on) a beautiful cottage \_\_\_\_\_ (beside / besides) the river. There is a pathway \_\_\_\_\_ (between / among) the two flower beds leading \_\_\_\_\_ (to / from) the cottage. He has been living there \_\_\_\_\_ (since / for) his childhood.

16.

- a) Write a letter to your friend advising him to work hard to get good marks.

( OR )

- b) Write a letter to the editor of The Times of India about the problems faced by the students during the recent monsoon.

## HS—102- Fundamentals of Nutrition

Course Title	Fundamentals of Nutrition	Course Code	HS-102
Semester	I	Course group	Core
Teaching Scheme(L:T:P)	4:1:0	Credits:	3
Methodolgy:	Lecture + Assignment	Total Contact Periods	75
CIE:	60 Marks	SEE:	40 Marks

Course Content and Blue Print of Marks for **SEE HS NUTRITION HS- 102**

COURSE OUT COME	
CO1	Define the terminology in Nutrition.
CO2	Identify the factors affecting Basal Metabolic Rate and metabolism of carbohydrates.
CO3	Explain the functions of Proteins, Protein Energy Malnutrition, and Metabolism of Proteins.
CO4	Explain the functions, metabolism of Lipids and deficiency or excess intake of lipids.
CO5	Explain the functions and effects of deficiency of Fat soluble and Water soluble Vitamins.
CO6	Discuss the functions of Minerals, Role of Sodium and Potassium in Acid Base balance and water intake /loss from the body.

### COURSE CONTENT:

#### UNIT 1

**Duration: Periods-08**

**INTRODUCTION TO NUTRITION:** Definition of the terms Food, Nutrition, Nutrients, Health, Diet, Nutrient requirement, **RDA**, Adequate Nutrition, Optimum Nutrition, Nutritional Status, Malnutrition (Under Nutrition and Over Nutrition), Dietary Supplement, Enrichment, Complementation, Supplementation. Metabolism, Glycolysis, Glycogenesis, Glycogenolysis, Gluconeogenesis, Ketone bodies, Ketosis and Ketonuria, Functions of Foods and Nutrients.

## UNIT 2

**Duration: Periods-16**

**CARBOHYDRATES AND ENERGY:** Carbohydrates-Definition, Composition, Functions, Requirements and Sources. **Energy-** Definitions, Basal metabolic rate (**BMR**), Factors affecting **BMR**, Specific Dynamic Action, Kilo Calorie definitions. Digestion, Absorption and Metabolism. Effect of deficiency or excess intake of carbohydrates, Protein energy malnutrition.

## UNIT 3

**Duration: Periods-15**

**PROTEINS:** Definition, Classification of Proteins on the basis of Compositional-Physical and Chemical, Simple, Conjugated and Derived proteins. Nutritional properties- Presence of Essential and Non-essential amino acids. Presence of Essential and Non-essential amino acids- Complete, Partially Complete and Incomplete Proteins. Functions, Requirements Sources, Deficiency, Digestion, Absorption and Metabolism.

## UNIT 4

**Duration: Periods-11**

**LIPIDS (Fats):** Definition, Composition, Properties, Classification of lipids-Simple lipids, Compound lipids, Waxes and Derived lipids. Classification of Fatty acids- Saturated and Unsaturated fatty acids. Functions, Requirements, Sources, Deficiency of Excess of lipids, Digestion, Absorption and Metabolism.

## UNIT 5

**Duration: Periods-12**

**VITAMINS:** Definition, Classification of fat-soluble vitamins A, D, E and K and Water-soluble vitamins-B-complex (Thiamine, Niacin Riboflavin, pyridoxine, Pantothenic Acid, B-12, Choline, Biotin, Para-amino benzoic acid, Vitamin C-Their functions, requirements, Sources and effects of deficiency. Thiamine, Riboflavin, Niacin and Vitamin C.

## UNIT 6

**Duration: Periods-13**

**MINERALS AND WATER: Minerals-** Classification -Sodium and Potassium- their functions, Requirements, Food Sources and effects of deficiency. **Water-**composition, sources, functions, of water, normal losses, water balance in a healthy adult. Problems of

Dehydration Oedema, electrolytes, Acid base balance. pH, reaction of foods, regulation of acid basebalance and Disturbance in Acid base balance and daily requirement of water.

**Suggested Learning Outcomes : After completion of this course, the student should be able to**

### **1.0 INTRODUCTION TO NUTRITION:**

- 1.1 Definition of the terms Food, Nutrition, Nutrients, Health, Diet.
- 1.2 Nutrient requirement, **RDA**, Adequate Nutrition, Optimum Nutrition, Nutritional Status Malnutrition (UnderNutrition and Over Nutrition)
- 1.3 Explain about Dietary Supplement, Enrichment,Complementation, Supplementation.
- 1.4 Explain about Metabolism, Glycolysis, Glycogenesis, Glycogenolysis, Gluconeogenesis, Ketone bodies, Ketosis and Ketonuria.Functions of Foods and Nutrients.

### **2.0 CARBOHYDRATES AND ENERGY:**

- 2.1 Carbohydrates-Definition, Composition, Functions, Requirements and Sources.
- 2.2 **Energy**- Definitions, Basal metabolic rate (**BMR**), Factors affecting**BMR**, Specific Dynamic Action, Kilo Calorie definitions.
- 2.3 Explain about Digestion, Absorption and Metabolism. Effect of deficiency or excess intake of carbohydrates, Protein energy malnutrition.

### **3.0 PROTEINS:**

- 3.1 Definition, Classification of Proteins on the basis of Compositional-Physical and Chemical, Simple, Conjugated and Derived proteins.
- 3.2 Nutritional properties- Presence of Essential and Non-essential amino acids.
- 3.3 Explain about Presence of Essential and Non-essential amino acids- Complete, Partially Complete and Incomplete Proteins.
- 3.4 Explain about Functions, Requirements, Sources, Deficiency, Digestion, Absorption and Metabolism.

### **4.0 LIPIDS (Fats):**

- 4.1 Definition, Composition, Properties, Classification of lipids-Simple lipids, Compound lipids, Waxes and Derived lipids.
- 4.2 Classification of Fatty acids- Saturated and Unsaturated fatty acids.
- 4.3 Explain the Functions, Requirements, Sources, Deficiency of Excess of lipids, Digestion,

4.4 Explain about the Absorption and Metabolism.

### **5.0 VITAMINS:**

5.1 Definition fat-soluble vitamins A, D, E and K.

5.2 Explain about the Classification of fat-soluble vitamins A, D, E and K and Water-soluble vitamins-B-complex (Thiamine, Niacin Riboflavin, pyridoxine, Pantothenic Acid, B-12, Choline, Biotin, Para-amino benzoic acid, Vitamin C- Their functions, requirements.

5.3 Explain the Sources and effects of deficiency. Thiamine, Riboflavin, Niacin and Vitamin C.

### **6.0 MINERALS AND WATER:**

6.1 Explain about the Classification -Sodium and Potassium- their functions.

6.2 Explain about the Requirements, Food Sources and effects of deficiency.

6.3 Definition of **Water**-composition, sources,

6.4 Explain the functions of water, normal losses, water balance in a healthy adult.

6.5 Explain the Problems of Dehydration Oedema, electrolytes, Acid base balance. pH, reaction of foods, regulation of acid base balance and Disturbance in Acid base balance and daily requirement of water.

### **REFERENCE BOOKS:**

- 1.** B. Srilakshmi, 2007 **Food Science 4 th Edition** New Age International (P). Publishers, New Delhi.
- 2.** B. Srilakshmi, 2006 **Dietetics - 4 th Edition**, New Age International (P) Limited. Publishers, New Delhi.
- 3.** Thangam Philip 2005 **Modern cookery for teaching and the trade, Volume 1**, Orient Longman (P) Limited, Chennai.
- 4.** Premlatamullick, 2012 **Text Book of Home Science, 3<sup>rd</sup> edition**, Kalyani Publishers, New Delhi.



S.No	Unit Name	MID SEM-I EXAM			
		R	U	A	Remarks
1	Unit-I	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-II	3, 4	6(a) 6(b)	8(a) 8(b)	
	Total Questions	4	4	4	
S.No	Unit Name	MID SEM-II EXAM			
		R	U	A	Remarks
1	Unit-III	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-IV	3, 4	6(a) 6(b)	8(a) 8(b)	
	Total Questions	4	4	4	

Sl No	Unit No.	Questions to be set for SEE			Remarks		
		R(1 Mark)	U(3 Marks)	A(5 Marks)			
1	I	4	1	9(a)	13(a)		
2	II			10(a)	14(a)		
3	III		3	5, 6	9(b)	13(b)	
4	IV				11(a)	15(a)	
5	V	11(b)			15(b)		
6	VI	3	7,8	10(b)	14(b)		
				12(a)	16(a)		
				12(b)	16(b)		
Total Questions		8		8	8		

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER MID SEMESTER EXAMINATION – I**  
**MODEL PAPER**  
**FUNDAMENTALS OF NUTRITION**

**Time: 1 hours**  
**Marks: 20**

**Max.**

**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all four questions.

(ii) Each question carries 01marks.

- 1) Define the terms Supplementation .
- 2) What are Ketone bodies?
- 3) Define carbohydrates.
- 4) Mention the Composition of Carbohydrates.

**PART-B**

**Marks: 2 x 3 = 6M.**

**Note : (i)** Answer all two questions out of four question.

(ii) Each question carries 03 marks

- 5) a) Mention the Requirements and sources of Carbohydrates.

(OR)

- b) Classify carbohydrates. Give Examples

- 6) a) What is the effect of deficiency or excess intake of carbohydrates?

(OR)

- b) Explain about Dietary Supplement.

**PART-C**

**Marks: 2 x 05 =  
10M.**

**Note : (i)** Answer all two questions out of four question.

(ii) Each question carries 03 marks

- 7) a) Distinguish between under Nutrition and over Nutrition.

(OR)

- b) Explain the Function of Carbohydrates.

- 8) a) Explain the Factors affecting Basal Metabolic Rate.

(OR)

- b) Explain the Functions of Foods And Nutrients.



**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER MID SEMESTER EXAMINATION – II**  
**MODEL PAPER**  
**FUNDAMENTALS OF NUTRITION**

**Time: 1 hours**  
**Marks: 20**

**Max.**

**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all five questions.

(ii) Each question carries 02 marks.

- 1) What are Essential Amino acids?
- 2) List the Sources of Proteins.
- 3) What are unsaturated Fatty acids?
- 4) Define Waxes.

**PART-B**

**Marks: 2 x 3 = 6M.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 03 marks

- 5) a) Write briefly about Protein Energy Malnutrition

(OR)

b) Explain any five function of proteins.

- 6) a) Classify Fatty acids. Give examples.

(OR)

b) Describe the Classification of Proteins.

**PART-C**

**Marks: 2 x 05 = 10M.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 03 marks

- 7) a) Describe the deficiency disease Kwashiorkor.

(OR)

b) Discuss the Properties of Lipids.

- 8) a) Explain the digestion and absorption of Lipids.

(OR)

b) Explain about lipids.



**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER EXAMINATION**  
**MODEL PAPER**  
**FUNDAMENTALS OF NUTRITION**

**Time: 2 hours**

**Max. Marks:**

**40**

**PART-A**

**Marks: 8x1 = 8M.**

**Instructions: 1. Answer ALL questions.**

**2. Each question carries ONE mark.**

1. Define Over nutrition.
2. Name four sources of Vegetable Proteins
3. What is Osteoporosis?
4. Name two Polysaccharides
5. What are Water Soluble Vitamins?
6. Mention four sources of Thiamine(B<sub>1</sub>)
7. Mention deficiency diseases of Iodine.
8. Mention four sources of Potassium.

**PART-B**

**Marks: 4X3=12M**

**Instructions: 1. Answer ALL FOUR questions.**

**2. Each question carries THREE marks.**

9. (a.) Explain about Monosaccharides.  
or  
(b.) Explain the functions and effect of Deficiency of Vitamin-‘A’.
  
10. (a.) Explain the Essential Amino Acids  
or  
(b.) Explain the classification of Vitamins and their Nutritive Importance.
  
11. (a.) State the functions of Vitamin ‘K’  
or  
(b.) Write the sources of Vitamin Niacin.
  
12. (a.) State the functions of Iodine  
or  
(b.) Write the sources of Phosphorus.



**PART-C**

**Marks: 4X5=20M**

**Instructions: 1. Answer ALL FOUR questions.**

**2. Each question carries FIVE mark.**

13. (a.) Define Energy and Explain the Energy Requirement (RDA) of Man, Woman and Child.  
or  
(b.) Explain the functions and Deficiency diseases of Thiamine(B<sub>1</sub>)
14. (a.) Explain about Protein Energy Malnutrition in Indian children.  
or  
(b.) Explain the functions and Deficiency diseases of Sodium.
15. (a.) Explain the functions and Deficiency disorders of Vitamin 'D'  
or  
(b.) Explain the requirement of Vitamin 'A' or beta carotene to different age group people. (Man, Woman, Pregnant Woman, Child, Adolescent)
16. (a.) Explain the signs and symptoms of Iron Deficiency Anaemia. Write six Iron rich foods.  
or  
(b.) Explain the functions of water.

### HS-103 - Fundamentals of Textile Science

Course Title	Fundamentals of Textile Science	Course Code:	HS-103
Semester:	I	Course group :	Core
Teaching Scheme(L:T:P):	4:1:0	Credits:	3
Methodolgy:	Lecture + Assignment	Total contact periods:	75
CIE:	60 Marks	SEE:	40 Marks

	COURSE OUT COME
CO1	Discuss the classification and Properties of Textile fibers.
CO2	Identify the different Textile fibers.
CO3	Explain the different types of weaves and weaving process.
CO4	Distinguish the types of water and method of removal of hardness for laundry purpose
CO5	Categorize the various types of stiffening agents and their preparation.
CO6	Distinguish the classification of fabric finishes, finishing process and special finishes.

#### COURSE CONTENT:

##### UNIT 1

**Duration: -12 Periods**

**CLASSIFICATION OF TEXTILE FIBRES:** Define the term textiles, fiber, staple, filament and yarn - multifilament, monofilament fibers. Classification of Textile fibers-Vegetable, Animal, Mineral and Synthetic Fibers.Physical, Chemical and other properties of Cotton, Silk, wool, Nylon, Rayon and Polyester. Types of yarns-Simple yarn, Complex yarn and Textured yarns.

##### UNIT 2

**Duration: -13 Periods**

**IDENTIFICATION OF TEXTILE FIBRES:** Physical, Visual, Burning, Chemical and Microscopic tests of Cotton, Silk, Wool, Nylon, Rayon and Polyester.

### **UNIT 3**

**Duration: -13 Periods**

**WEAVES:** Define weaving, Warp and Weft yarns, parts and functions of Loom with illustrations, weaving process, Balance of cloth and Thread count. Kinds of Weaves- Plain weave and its variations, Twill weave, Herring bone weave, Satin and Sateen weave.

### **UNIT 4**

**Duration: -12 Periods**

**WATER:** Types of water, definition of Hard and Soft water, causes and disadvantages of water hardness, removal of hardness-by Boiling, use of Caustic soda, Ammonia and Borax.

### **UNIT 5**

**Duration: -12 Periods**

**STIFFENING AGENTS:** Various kinds of stiffening agents and its importance. Preparation of boiling water starch, Coldwater starch, gum water and tips for starching.

### **UNIT6**

**Duration: -13 Periods**

**FABRIC FINISHES:** Definition of Finish of the fabric, major differences between unfinished and finished fabrics, Importance of fabric finish, Classification of fabric finishes- **Functional**-Basic and functional, **Performances**-Temporary, Semi durable, Durable and Permanent finish, **Chemical(wet) and Mechanical (dry)** fabric finish, Finishing process and special purpose finishes- Sanfrozation (Pre shrinking).

**Suggested Learning Outcomes : After completion of this course, the student should be able to**

**1.0 CLASSIFICATION OF TEXTILE FIBRES:**

- 1.1 Define the term textiles, fiber, staple, filament and yarn - multifilament, monofilament fibers.
- 1.2 Classification of Textile fibers-Vegetable, Animal, Mineral and Synthetic Fibers. Physical, Chemical and other properties of Cotton, Silk, wool, Nylon, Rayon and Polyester.
- 1.3 Explain the Types of yarns-Simple yarn, Complex yarn and Textured yarns.

**2.0 IDENTIFICATION OF TEXTILE FIBRES:**

- 2.1 Explain about Physical, Visual, Burning, Chemical and Microscopic tests of Cotton,
- 2.2 Explain about Physical, Visual, Burning, Chemical and Microscopic tests of Silk,
- 2.3 Explain about Physical, Visual, Burning, Chemical and Microscopic tests of, Wool
- 2.4 Explain about Physical, Visual, Burning, Chemical and Microscopic tests of Nylon,
- 2.5 Explain about Physical, Visual, Burning, Chemical and Microscopic tests of Rayon
- 2.6 Explain about Physical, Visual, Burning, Chemical and Microscopic tests of Polyester
- 2.7 Classification of textile fibers .

**3.0 WEAVES:**

- 3.1 Define weaving, Warp and Weft yarns,
- 3.2 Explain the parts and functions of Loom with illustrations.
- 3.3 Explain the weaving process.
- 3.4 Define Balance of cloth and Thread count.
- 3.5 Explain the different types of Weaves- Plain weave and its variations, Twill weave, Herring bone weave, Satin and Sateen weave.

#### **4.0 WATER:**

- 4.1 Explain the Types of water.
- 4.2 Definition of Hard and Soft water.
- 4.3 Explain the causes and disadvantages of water hardness, removal of hardness-by Boiling, use of Caustic soda, Ammonia and Borax.

#### **5.0 STIFFENING AGENTS:**

- 5.1 Explain the Various kinds of stiffening agents and its importance.
- 5.2 Explain about the Preparation of boiling water starch.
- 5.3 Explain about the Preparation of Coldwater starch.
- 5.4 Explain about the Preparation of gum water and tips for starching.

#### **6.0 FABRIC FINISHES:**

- 6.1 Definition of Finish of the fabric
- 6.2 Differences between unfinished and finished fabrics.
- 6.3 Importance of fabric finish.
- 6.4 Classification of fabric finishes-Functional-Basic and functional,
- 6.5 Performances-Temporary, Semi durable, Durable and Permanent finish, Chemical(wet) and Mechanical (dry) fabric finish.
- 6.6 Explain the Finishing process.
- 6.7 Explain about special purpose finishes- Sanfrozation (Pre shrinking).

#### **REFERENCE BOOKS:**

1. DurgaDeulkar: **Household textiles and laundry work.** Atmaram &sons. Kashmirmgate Delhi, 1998.
2. SusheelaDantiyagi**Fundamentals of textiles and their care.**Orient Longman Ltd., New Delhi1984-1987.
3. Sushma Gupta and NeeruGarg**A Textbook of Homescience.**Kalyani publications, Year1994.
4. SushmaGupta,Neerugarg, **A textbook of Clothing and Textiles,**RenuSainiKalyani publications, Year1995.



S.No	Unit Name	MID SEM-I EXAM			
		R	U	A	Remarks
1	Unit-I	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-II	3, 4	6(a) 6(b)	8(a) 8(b)	
	Total Questions	4	4	4	
S.No	Unit Name	MID SEM-II EXAM			
		R	U	A	Remarks
1	Unit-III	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-IV	3, 4	6(a) 6(b)	8(a) 8(b)	
	Total Questions	4	4	4	

Sl No	Unit No.	Questions to be set for SEE			Remarks		
		R(1 Mark)	U(3 Marks)	A(5 Marks)			
1	I	4	1	9(a)	13(a)		
2	II			10(a)	14(a)		
3	III		3	5, 6	9(b)	13(b)	
4	IV				11(a)	15(a)	
					11(b)	15(b)	
5	V			7,8	10(b)	14(b)	
					12(a)	16(a)	
					12(b)	16(b)	
6	VI						
Total Questions		8	8	8			

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER MID SEMESTER EXAMINATION – I**  
**MODEL PAPER**  
**FUNDAMENTALS OF TEXTILE SCIENCE**

**Time: 1 hours**  
**Marks: 20**

**Max.**

**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all four questions.

(ii) Each question carries 01marks.

- 1) Define the terms Staples .
- 2) Define the terms Filament.
- 3) Draw the microscopic diagram of Cotton Fibre.
- 4) What is the Characteristics burning smell of Silks and Nylon Fibre.

**PART-B**

**Marks: 2 x 3= 6M.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 03 marks.

- 5) a) Explain Burning and Chemical test of wool fiber.

(OR)

- b) Mention any two examples of Animal and Synthetic Fibers.

- 6) a) Explain the types of Yarns.

(OR)

- b) Write briefly the physical and chemical properties of Silks fiber.

**PART-C**

**Marks: 2 x 05 = 10.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 05 marks

- 7) a) Explain the Classification of Textile fiber with examples.

(OR)

- b) Explain the Methods of identification of Cotton fiber.

- 8) a) Discuss the Physical and Chemical Properties of Wool Fiber.

(OR)

- b) Explain about the microscopic tests of textile fibers.

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER MID SEMESTER EXAMINATION – II**  
**MODEL PAPER**  
**FUNDAMENTALS OF TEXTILE SCIENCE**

**Time: 1 hours**

**Max. Marks: 20**

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**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all four questions.

(ii) Each question carries 01marks.

- 1) What are Warp Yarns .
- 2) List the parts of the Loom.
- 3) List the types of Water.
- 4) State the causes of Hardness in Water.

**PART-B**

**Marks: 2 x 3 = 6M.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 03 marks

- 5) a) Mention the Plain Weave Variations  
(or)  
b) Explain Herring Bone Weave.
- 6) a) Write briefly on kinds of Weaves.  
(or)  
b) What are the disadvantages of water hardness?

**PART-C**

**Marks: 2 x 5 = 10M.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 05 marks.

- 7) a) Explain the removal of hardness in water for Laundry Purpose by use of Caustic Soda.  
(or)  
b) Explain the Function of Loom with Illustrations.
- 8) a) Explain the Weaving Process.  
(or)  
c) Explain about types of water.

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER EXAMINATION**  
**MODEL PAPER**  
**FUNDAMENTALS OF TEXTILE SCIENCE**

**Time: 2 hours**

**Max. Marks: 40**

**PART-A**

**Marks: 8x1 = 8M.**

**Instructions: 1. Answer ALL questions.**

**2. Each question carries ONE mark.**

- 1) Define the terms weaving.
- 2) Define the term Textiles.
- 3) Draw the microscopic appearance of polyester fibre.
- 4) Define chemical finish.
- 5) Define Soft Water.
- 6) List the Various Kinds of Stiffening agents.
- 7) Define a Finish.
- 8) List the tips for starching.

**PART-B**

**Marks: 4 x 3 = 12.**

**Note : (i) Answer all four questions.**

**(ii) Each question carries 03 marks**

- 09) a) Explain the method of removing hardness in water by use of Borax.  
(or)  
b) Explain the physical and chemical test for silk fiber.
- 10) a) Explain the preparation of hot water starch.  
(or)  
b) Explain the preparation of cold water starch.
- 11) a) state the importance of finishing process .  
(or)  
b) Explain the Classification of fabric finishes.
- 12) a) Describe the term Sanforization.  
(or)  
c) Mention the importance of Fabric Furnish.

**PART-C**

**Marks: 4 x 05 = 20.**

**Note : (i) Answer all four questions.**

**(ii) Each question carries FIVE marks.**

13) a) Explain the Physical and Chemical properties of Nylon, Rayon and Polyester.

(or)

b) Explain about different types of starches.

14) a) Explain the satin Weaves and sateen weave.

(or)

b) Discuss the various kinds of stiffening agents and write their importance.

15) a) Explain the finishing processes on fabric.

(or)

b) Explain the importance and classification of fabric finishes.

16) a) Explain about special purpose finishes.

(or)

b) Explain the Various kinds of stiffening agents and its importance.

### HS-104 - Principles of Child Development

Course Title:	Principles of Child Development	Course Code:	HS-104
Semester:	I	Course group :	Core
Teaching Scheme(L:T:P):	4:1:0	Credits:	3
Methodolgy :	Lecture + Assignment	Total contact periods:	75
CIE:	60 Marks	SEE:	40 Marks

COURSE OUT COME	
CO1	Discuss the need, Importance and methods of understanding children.
CO2	Explain the general principles and factors effecting growth and development.
CO3	Explain about maturation, Learning and role of Heredity and environment in the developmental behavior of the child.
CO4	Explain signs, complications during pregnancy types of births, birth injuries and defects, characteristics and care of the Newborn.
CO5	Explain the importance of Health and safety of children and immunization.
CO6	Explain the different types of disabilities in special children.

#### COURSE CONTENT:

##### UNIT 1

**Duration: Periods-11**

**INTRODUCTION TO CHILD DEVELOPMENT:** Definition, Need and Importance, Scope of child development, Contribution of child development to other disciplines. Methods of studying children-Observation, Case study, Questionnaire and Interview method.

## **UNIT 2**

**Duration: Periods-12**

**PRINCIPLES OF GROWTH AND DEVELOPMENT:** Definition, difference between growth and development-General principles of growth and development – Factors affecting growth and development and stages of growth and development.

## **UNIT 3**

**Duration: Periods-15**

**MATURATION, LEARNING HEREDITY AND ENVIRONMENT:** Definition, principles of Maturation, functions process, theories and factors influencing Learning. Define Heredity and environment and role of heredity and environment in the development and behavior of the child.

## **UNIT 4**

**Duration: Periods-12**

**PRE-NATAL DEVELOPMENT:** Fertilization, **Signs of Pregnancy, Complications of pregnancy**, sex determination, Pre-natal Growth, Types of births, stages of birth, complications during labor, Birth injuries and birth defects. The characteristics of newborn baby, and care of the new born.

## **UNIT 5**

**Duration: Periods-12**

**IMPORTANCE OF HEALTH AND IMMUNIZATION:** Importance of health and safety of children. Symptoms, causes, prevention and care of Common cold, Fever, Cough, Malaria, Typhoid, Measles and Polio. Importance of immunization, Active and Passive immunity and Immunization Schedule.

## **UNIT 6**

**Duration: Periods-13**

**SPECIAL CHILDREN:** Define Disability, different types of disability- Visual, Hearing, Mental, Intellectual and Learning disability.

**Suggested Learning Outcomes : After completion of this course, the student should be able to**

**1.0 INTRODUCTION TO CHILD DEVELOPMENT:**

- 1.1 Definition child development.
- 1.2 Explain Need and Importance of the child development.
- 1.3 Explain the Scope of child development.
- 1.4 Explain the Contribution of child development to other disciplines.
- 1.5 Explain the Methods of studying children-Observation, Case study, Questionnaire and Interview method.

**2.0 PRINCIPLES OF GROWTH AND DEVELOPMENT:**

- 2.1 Definition of growth and development .
- 2.2 Difference between growth and development.
- 2.3 Explain the General principles of growth and development .
- 2.4 Explain the Factors affecting growth and development and stages of growth and development.

**3.0 MATURATION, LEARNING AND PERSONALITY DEVELOPMENT:**

- 3.1 Definition **maturity, learning and personality development.**
- 3.2 Explain about the principles of Maturation.
- 3.3 Explain about functions, process, theories and factors influencing Learning.
- 3.4 Define Heredity and environment and role of heredity and environment in the development and behavior of the child.

**4.0 PRE-NATAL DEVELOPMENT:**

- 4.1 Define Fertilization, **Signs of Pregnancy, Complications of pregnancy,** sex determination, Pre-natal Growth.
- 4.2 Types of births, stages of birth, complications during labor, Birth injuries and birth defects.
- 4.3 Characteristics of new born baby, and care of the new born.

**5.0 IMPORTANCE OF HEALTH AND IMMUNIZATION:**

- 5.1 Importance of health and safety of children. Symptoms, causes.
- 5.2 Definition of Fever
- 5.3 Explain and the prevention and care of Common cold, Fever, Cough, Malaria,

Typhoid, Measles and Polio.

5.4 Importance of immunization, Active and Passive immunity and Immunization Schedule.

### 6.0 SPECIAL CHILDREN:

6.1 Define Disability.

6.2 Explain the different types of disability- Visual, Hearing, Mental, Intellectual and Learning disability.

### REFERENCE BOOKS:

1. Rajammal P. Devadas and N.Jaya A **textbook on Child Development**, Macmillan Limited, Year 1984.
2. Elizabeth B. Hurlock **Developmental Psychology A life span approach**, Tata McGraw Hill Publishing Company Ltd. Year-1981.
3. Kailas C. Panda **Elements of Child Development**, Kalyani Publishers, Year 1981.
4. A.P. Srivastava. **The Educational Development Of your child-A guide**, The learning lab. S21/G21K. Block Saket, New Delhi 110017.

	<b>COURSE OUT COME</b>	<b>CL</b>	<b>Linked PO</b>	<b>Teaching Hours</b>
CO1	Discuss the need, Importance and methods of understanding the children.	R/U/A	1,2	11
CO2	Explain the general principles and factors effecting growth and development.	R/U/A	2	12
CO3	Explain about maturation, Learning and role of Heredity and environment in the developmental behavior of the child.	R/U/A	2,	15
CO4	Explain signs, complications during pregnancy, characteristics and care of the Newborn.	R/U/A	2	12
CO5	Explain the importance of Health and safety of children, immunization and safety of the children	R/U/A	2,5	12
CO6	Explain the different types of disabilities in special children.	R/U/A	2	13

**CO-PO Matrix**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	Mapped POs
CO1	y	y			y						PO1,PO2,PO5
CO2		y									PO2
CO3		y			y					y	PO2, PO5, PO10
CO4		y									PO2
CO5		y			y					y	PO2, PO5, PO10
CO6		y									PO2

**MID SEMESTER**

S.No	Unit Name	MID SEM-I EXAM			
		R	U	A	Remarks
1	Unit-I	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-II	3, 4	6(a) 6(b)	8(a) 8(b)	
	Total Questions	4	4	4	
S.No	Unit Name	MID SEM-II EXAM			
		R	U	A	Remarks
1	Unit-III	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-IV	3, 4	6(a) 6(b)	8(a) 8(b)	
	Total Questions	4	4	4	

### SEMESTER END EXAMINATION

Sl No	Unit No.	Questions to be set for SEE			Remarks		
		R(1 Mark)		U(3 Marks)		A(5 Marks)	
1	I	4	1	9(a)	13(a)		
2	II						
3	III		2	10(a)	14(a)		
4	IV						
5	V		3	5, 6	9(b)	13(b)	
					11(a)	15(a)	
					11(b)	15(b)	
6	VI			7,8	10(b)	14(b)	
					12(a)	16(a)	
					12(b)	16(b)	
Total Questions		8		8	8		

STATE BOARD DIPLOMA EXAMINATIONS, (C-21)  
DHS I SEMESTER MID SEMESTER EXAMINATION – I  
MODEL PAPER  
PRINCIPLES OF CHILD DEVELOPMENT

Time: 1 hours

Max. Marks: 20

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**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all four questions.

(ii) Each question carries 01marks.

- 1) Define Child Development.
- 2) List the methods of studying children.
- 3) Define the term Growth.
- 4) List the Various stages of Growth and Development.

**PART-B**

**Marks: 2 x 3 = 6.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 03 marks.

- 5) a) Explain any observation methods of studying children.  
(or)  
b) Explain any five principal of Growth and Development?
- 6) a) Explain the scope of child development.  
(or)  
b) Mention the need for Child Study.

**PART-C**

**Marks: 2 x 05 = 10.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 05 marks

- 7) a) Explain the Contribution of child development to other disciplines.  
(or)  
b) Explain the factors affecting Growth & Development.
- 8) a) Explain the Various stages of Growth & development.  
(or)  
b) Explain the Methods of Questionnaire and Interview method

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER MID SEMESTER EXAMINATION – II**  
**MODEL PAPER**  
**PRINCIPLES OF CHILD DEVELOPMENT**

**Time: 1 hours**

**Max. Marks: 20**

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**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all four questions.

(ii) Each question carries 01marks.

- 1) Define the terms Learning?
- 2) Define Heredity.
- 3) List the two factors influencing Learning?
- 4) List the signs of Pregnancy .

**PART-B**

**Marks: 2 x 3 = 6.**

**Note : (i)** Answer all the questions.

(ii) Each question carries 03 marks

- 5) a)Mention the Factors Influencing Learning?  
(or)  
b) Explain the principal any 5 of Maturation.
- 6) a) Explain the Complication during Pregnancy.  
(or)  
b) Explain the care of the New born.

**PART-C**

**Marks: 2 x 05 = 10.**

**Note : (i)** Answer all questions.

(ii) Each question carries 05 marks.

- 7) a) Explain the theories of Learning.  
(or)  
b) Explain stages of Birth complications during Labour, Birth injuries and Birth defects.
- 8) a) Explain the process of Learning.  
(or)  
b) Explain about the principles of Maturation.

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER EXAMINATION**  
**MODEL PAPER**  
**PRINCIPLES OF CHILD DEVELOPMENT**

**Time: 2 hours**

**Max. Marks: 40**

**PART-A**

**Marks: 8x1 = 8M.**

**Instructions: 1. Answer ALL questions.**

**2. Each question carries ONE mark.**

- 1) Mention any two points in the importance of child study. .
- 2) List any two Characteristics of case study method. .
- 3) Differentiate between Growth and Development (2 Points). .
- 4) Define the term Environment? .
- 5) List signs of pregnancy. .
- 6) List the Symptoms of common cold. .
- 7) Define Passive Immunity. .
- 8) Define Disability. .

**PART-B**

**Marks: 4 x 3 = 12.**

**Note : (i) Answer all four questions.**

**(ii) Each question carries 03 marks**

- 09) a) Explain the Scope of Child Development.  
(or)  
b) Explain the Characteristics of questionnaire method.
- 10) a) Explain any two principles of Growth and Development?  
(or)  
b) Explain the method of sex determination.
- 11) a) Explain the causes prevention and case of Measles.  
(or)  
b) Explain about Mental disabilities.
- 12) a) Mention the importance of Immunization.  
(or)  
b) Write about the Learning disability?

**PART-C**

**Marks: 4 x 05 = 20.**

**Note : (i) Answer all four questions.**

**(ii) Each question carries 05 marks.**

13) a) Explain the method of studying children.

(or)

b) Explain the various stages of Growth and Development.

14) a) Explain the role of heredity in the development of Behavior of the child.

(or)

b) Explain the complications during pregnancy.

15) a) Explain about active and passive immunity.

(or)

b) Explain about Visual & hearing disabilities.

16) a) Explain the different types of disability.

(or)

b) Explain about the Immunization Schedule.

## HS-105 - Health and Beauty Care

Course Title:	Health and Beauty Care	Course Code:	HS-105
Semester:	I	Course group :	Core
Teaching Scheme(L:T:P):	4:1:0	Credits:	3 Credits
Methodolgy:	Lecture + Assignment	Total contact periods:	75
CIE:	60 Marks	SEE:	40 Marks

	<b>COURSE OUT COME</b>
CO1	Discuss the Importance of Personal Hygiene
CO2	Explain the Importance of Exercise, Yoga and Beauty care.
CO3	Explain the importance of Health and Role of Diet.
CO4	Discuss about Skin care and Nail care
CO5	Explain the importance of Makeup , Hair and Scalp Care
CO6	Discuss the Preparation of Cosmetics in Beauty care.

### **COURSE CONTENT:**

#### **UNIT 1**

**Duration: Periods-11**

**Basic Health , Safety And Personal Hygiene** –Define personal hygiene ,Importance of Personal hygiene ,Hygiene -Care of skin, hair, eyes, mouth, teeth, and nails, Basic hygiene standards- procedures for safety and cleanliness .

#### **UNIT 2**

**Duration: Periods-13**

**Importance of Exercise, Yoga and Beauty Care.**-Difference between yoga and exercise. Types of exercises and yoga.Role of exercise and yoga in healthcare. Care of facial skin– Facial wrinkles, marks and Spots of Face, Unwanted Facial Hair and Pimple Treatment.

### UNIT 3

**Duration: Periods-13**

**Importance of Health And Role of Diet:** Definition and importance of health. Definition and importance of balance diet and role of diet in health care- Recommended diets for under weight and over weight persons

### UNIT 4

**Duration: Periods-13**

**Skin Care & Nail Care:-**Structure and functions of skin and importance of Skin Care. Effects of diet and Sun rays on the skin. Importance and use of moisturizers. Nail care- Nail formation and growth – Nail damage and it's precautions Cosmetics for nails. Common nail problems, manicure and pedicure massage techniques and equipment used - Nail art .

### UNIT 5

**Duration: Periods-13**

**Make-up ,Hair and Scalp care.** The role of dressing in beauty – selecting and choosing cosmetics for make up –Preparation of face for makeup and application of makeup for eyes , face, eyebrows, lips ,skin tones and wrinkles- special make up techniques- day make up, evening make up and bridal make up.Types of Hair, Hair care , scalp massage-selection of oil – causes for Hair loss – reasons for grey Hair and Dandruff Hair dyeing- hair coloring and its types – selection and precautions during Hair coloring – application of Henna and Dye – Hair styles

### UNIT 6

**Duration: Periods-12**

**Importance and preparation of Cosmetics in Beauty Care.** Importance and Selection of cosmetics-Use of cosmetics with respect to the skin texture-Natural and Synthetic. Preparation of various natural cosmetics.

**Suggested Learning Outcomes : After completion of this course, the student should be able to**

### **1.0 Basic Health , Safety And Personal Hygiene –**

- 1.1 Define personal hygiene.
- 1.2 Importance of Personal hygiene.
- 1.3 Hygiene -Care of skin, hair, eyes, mouth, teeth, and nails.
- 1.4 Basic hygiene standards- procedures for safety and cleanliness.

### **2.0 Importance of Exercise, Yoga and Beauty Care.-**

- 2.1 Difference between yoga and exercise.
- 2.2 Types of exercises and yoga. Role of exercise and yoga in healthcare.
- 2.3 Care of facial skin– Facial wrinkles, marks and Spots of Face, Unwanted Facial Hair and Pimple Treatment.

### **3.0 Importance of Health And Role of Diet:**

- 3.1 Definition and importance of health
- 3.2 Definition and importance of balance diet.
- 3.3 Explain the role of diet in health care- Recommended diets for under weight and over weight persons

### **4.0 Skin Care & Nail Care**

- 4.1 Structure and functions of skin.
- 4.2 Importance of Skin Care.
- 4.3 Effects of diet and Sun rays on the skin.
- 4.4 Importance and use of moisturizers.
- 4.5 Nail care- Nail formation and growth – Nail damage and its precautions Cosmetics for nails.
- 4.6 Common nail problems, manicure and pedicure massage techniques and equipment used - Nail art .

### **5.0 Make-up, Hair and Scalp care.**

- 5.1 The role of dressing in beauty – selecting and choosing cosmetics for make up –
- 5.2 Preparation of face for makeup and application of makeup for eyes , face, eyebrows, lips ,skin tones and wrinkles- special make up techniques- day make up, evening make up and bridal make up.

5.3 Types of Hair, Hair care , scalp massage-selection of oil – causes for Hair loss – reasons for grey Hair and Dandruff

5.4 Hair dyeing- hair coloring and its types – selection and precautions during Hair coloring

5.5 Application of Henna and Dye – Hair styles

### **6.0 Importance and preparation of Cosmetics in Beauty Care.**

6.1 Importance and Selection of cosmetics.

6.2 Use of cosmetics with respect to the skin texture Natural and Synthetic.

6.3 Preparation of various natural cosmetics.

### **REFERENCEBOOKS:**

1. ShahanazHussain Beauty Book.
2. Chho Der Beauty & Body book.
3. Kitty carpion Herbal Beauty.

	<b>COURSE OUT COME</b>	<b>CL</b>	<b>Linked PO</b>	<b>Teaching Hours</b>
CO1	Discuss the Importance of Personal Hygiene	R/U/A	1,2	11
CO2	Explain the Importance of Exercise, Yoga and Beauty care	R/U/A	2	13
CO3	Explain the importance of Health and Role of Diet	R/U/A	2	13
CO4	Discuss about Skin care and Nail care	R/U/A	2	13
CO5	Explain the importance of Make up , Hair and Scalp Care	R/U/A	2,5	13
CO6	Discuss the Preparation of Cosmetics in Beauty care	R/U/A	2	12



Sl No	Unit No.	Questions to be set for SEE			Remarks		
		R(1 Mark)		U(3 Marks)		A(5 Marks)	
1	I	4	1	9(a)	13(a)		
2	II						
3	III		2	10(a)	14(a)		
4	IV						
5	V	4	3	5, 6	9(b)	13(b)	
					11(a)	15(a)	
					11(b)	15(b)	
6	VI		7,8	10(b)	14(b)		
				12(a)	16(a)		
				12(b)	16(b)		
Total Questions		8		8	8		

S.No	Unit Name	MID SEM-I EXAM			
		R	U	A	Remarks
1	Unit-I	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-II	3, 4	6(a) 6(b)	8(a) 8(b)	
	Total Questions	4	4	4	
S.No	Unit Name	MID SEM-II EXAM			
		R	U	A	Remarks
1	Unit-III	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-IV	3, 4	6(a) 6(b)	8(a) 8(b)	
Total Questions		4	4	4	

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER MID SEMESTER EXAMINATION – I**  
**MODEL PAPER**  
**HEALTH AND BEAUTY CARE**

**Time: 1 hours**

**Max. Marks: 20**

**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all four questions.

(ii) Each question carries 01marks.

- 1) Define personal hygiene.
- 2) List the types of yoga.
- 3) Write two differences between yoga and exercise
- 4) What are facial wrinkles?

**PART-B**

**Marks: 2 x 3 = 6.**

**Note : (i)** Answer all two questions.

(ii) Each question carries 03 marks

- 5) A) Mention any two points in care of teeth
- (or)
- B) Write the importance of personal hygiene
- 6) A) How do you take care of yours eyes? Discuss
- (or)
- B) Explain about facial wrinkles, marks and spots of face.

**PART-C**

**Marks: 2 x 05 = 10.**

**Note : (i)** Answer all two questions

(ii) Each question carries 05 marks

- 7) A) Discuss the role of exercise and yoga in Health care
- (or)
- B) Explain the procedures for safety and cleanliness
- 8)A) Discuss about unwanted facial hair and pimple treatment
- (or)
- B) Difference between yoga and Exercise.

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER MID SEMESTER EXAMINATION – II**  
**MODEL PAPER**  
**HEALTH AND BEAUTY CARE**

**Time: 1 hours**

**Max. Marks: 20**

**PART-A**

**Marks: 4x1 = 4M.**

**Note : (i)** Answer all four questions.

(ii) Each question carries 01marks.

- 1) Define Health.
- 2) Define the term balanced diet
- 3) List the different cosmetics for nails
- 4) List the equipment used for manicure.

**PART-B**

**Marks: 2 x 3 = 6.**

**Note: (i)** Answer all the questions.

(ii) Each question carries 03 marks

- 5) A) List few moisturizers

(or)

B) Write about any two common nail problems

- 6) A) Explain the role of diet in health care.

(or)

- b) Explain the function of skin.

**PART-C**

**Marks: 2 x 5 = 10.**

**Note : (i)** Answer all the questions.

(ii) Each question carries 5 marks.

- 7) A) Discuss about manicure.

(or)

B) Explain the structure of skin with the help of a diagram

- 8) A) Explain about recommended diets for underweight and overweight.

(or)

B) Explain about the manicure and pedicure techniques

**STATE BOARD DIPLOMA EXAMINATIONS, (C-21)**  
**DHS I SEMESTER EXAMINATION**  
**MODEL PAPER**  
**HEALTH AND BEAUTY CARE**

**Time: 2 hours**

**Max. Marks: 40**

**PART-A**

**Marks: 8x1 = 8M.**

**Instructions: 1. Answer ALL questions.**

**2. Each question carries ONE mark.**

- 1) What care do you take for hair care?
- 2) List the two basic hygiene standards in health.
- 3) What are spots of face?
- 4) What are nourishing creams?
- 5) List the types of Yoga.
- 6) List any two objectives for selecting and choosing cosmetics for make up.
- 7) List any two special makeup techniques.
- 8) What are natural cosmetics? Give two examples.

**PART-B**

**Marks: 4 x 3 = 12.**

**Note :(i) Answer all the questions.**

**(ii) Each question carries 03 marks**

- 9) A) Mention any four natural cosmetics.  
(or)  
B) Mention any two causes for hair loss.
- 10) A) Mention different scalp problems.  
(or)  
B) Explain about facial wrinkles and unwanted facial hair.
- 11) A) Write short notes on massage techniques and equipment used for manicure and pedicure.  
(or)  
B) How do you prepare the face for make up and explain application of makeup for wrinkles?
- 12) A) Explain about the use of cosmetics with respect to the skin texture.  
(or)  
B) Discuss the reasons for grey hair and dandruff.

**PART-C**

**Marks: 4 x 05 = 20.**

**Note : (i) Answer any four questions.**

**(ii) Each question carries 05 marks.**

13) A) How do you take care of skin , mouth ,teeth and nails ? Explain

(or)

B) Explain the difference between day make up, evening make up and bridal make up.

14) A) Explain the Importance of skin care

(or)

B)Discuss about the Nail art

15) A) Discuss in detail about selection and precautions during hair coloring and application of Henna.

(or)

B) Discuss the importance and selection of cosmetics.

16) A) Explain about the different Types of Hair.

(or)

B) Explain about the different Types of Hair styles

### HS-106 - Basic Food Science Lab

Course Title	Basic Food Science Lab	Course Code	HS-106
Semester	I	Course Group	Core
Teaching Scheme in Periods(L:T:P)	1:0:2	Credits	1.5
Methodology	Lecture + Practicals	Total Contact periods	45
CIE	60 Marks	SEE	40 Marks

Course Content and Blue Print of Marks for SEE HS **Basic Food Science Lab** HS-106

<b>COURSE OUT COME</b>	
CO1	Demonstrate the different cereal preparations and calculate the nutritive value.
CO2	Demonstrate the different Pulse preparations and calculate the nutritive value.
CO3	Demonstrate the different Vegetable preparations and calculate the nutritive value.
CO4	Demonstrate the different Meat, Poultry and Sea foods preparations and calculate the nutritive value.
CO5	Demonstrate the different preparations of milkshakes, ice creams, puddings and soups and calculate the nutritive value.
CO6	Demonstrate the different preparations and display of vegetable and fruit carvings.

**COURSECONTENT:**

**Experiment :1**

**Duration: Periods-05**

**CEREAL COOKERY:**

- a. Bisibeli Bath
- b. Vegetable Biryani.
- c. Kutchi Biryani
- d. Missi Roti.
- e. Stuffed Paratha (Potato / Kheema).
- f. Bhatara.

**Experiment : 2**

**Duration: Periods-08**

**PULSE COOKERY:**

- a. Chole.
- b. Dal Makhani.
- c. Dalcha.

**Experiment: 3**

**Duration: Periods-08**

**VEGETABLE COOKERY:**

- a. Butter Paneer Masala
- b. PalakPaneer.
- c. Mixed Vegetable Curry.
- d. Vegetable Kofta Curry
- e. Mushroom Baby corn Masala.
- f. BagaraBaingan
- g. MirchikaSalan.

**Experiment: 4**

**Duration: Periods-10**

**MEAT, POULTRY AND SEA FOOD:**

- a. Meat Kofta Curry.
- b. ShahiKhorma.

- c. Dum kaMurgi.
- d. Malai Prawn Curry.

**Experiment: 5**

**Duration: Periods-08**

**MILK SHAKES, ICE CREAMS, PUDDINGS JAMS AND CAKES:**

- a. Mango Lassi.
- b. Banana / Sapota / Mango / Pineapple / Badam (almond) Milk Shake.
- c. Vanilla / Chocolate Ice- cream.
- d. Mango / Sapota Ice Cream.
- e. Trifle Pudding.
- f. Bread Pudding.
- g. Chocolate Pudding.
- h. Mixed fruit jam
- i. seasonal fruits jam
- j. Orange, Mango and Chocolate
- k. Plain cake and chocolate

**Experiment: 6**

**Duration: Periods-06**

**VEGETABLE CARVING:**

- a. Tomato / Onion / Bell Pepper / Radish /Carrot / Beetroot Flower.
- b. Bell Pepper Cup / Basket
- c. Brinjal (Egg plant) Penguin.
- d. Cucumber Swirl.
- e. Green Onion Curls.
- f. Watermelon Bowl / Basket
- g. Julienne Cut

## Course outcomes

Course Outcome		Linked PO	Teaching Hours
CO1	Demonstrate the different cereal preparations and calculate the nutritive value.	1,2,3,4,5,	05
CO2	Demonstrate the different Pulse preparations and calculate the nutritive value.	1,2,3,4,5	08
CO3	Demonstrate the different Vegetable preparations and calculate the nutritive value.	1,2,3,4,5	08
CO4	Demonstrate the different Meat, Poultry and Sea foods preparations and calculate the nutritive value.	1,2,3,4,5	10
CO5	Demonstrate the different preparations of milkshakes, ice creams, puddings jams and cakes and calculate the nutritive value.	1,2,3,4,5	08
CO6	Demonstrate the different preparations and display of vegetable and fruit carvings.	1,2,3,4,5	06

## LEARNING OUTCOMES

Up on the completion of the course the student shall able to

- Prepare and calculate nutritive value of cereal preparation, Pulse preparations, Vegetable preparations, Meat, Poultry and Sea foods preparations, milkshakes, ice creams, puddings, different preparations and display of vegetable and fruit carvings

## REFERENCE BOOKS:

1. MeeraTaneja**Good House Keeping Pakistani cookery**, Ebury press, London, Great Britain, Year-1985
2. ThangamE.Philip**Modern cookery for Teaching and theTrade, Vol- I**, Published by Orient Longman Ltd., Hyderabad,Year-2010
3. Thangam. E .Philip **Modern cookery for Teaching and the Trade, Vol-II**, Published by Orient Longman Ltd., Hyderabad, year-1988
4. Emma Patmore **Cook Shelf Baking**, Paragon Book, China, Year 2002
5. NitaMehta's**Cakes and Chocolates**, SNAB publishers, Pvt .Ltd., New Delhi, Year-2002.
6. NitaMehta's**Low calorie cooking for the Indian kitchen**,SNAB publishers Pvt. Ltd.,NewDelhi, Year-2001.
7. C. Gopalan**Nutritive value of Indian Foods**, NIN.Hyderabad.
8. Priya Ram Kumar, **Cook and See- Soups, Salads, Juices and Chat Items,(Part4)**, S.Meenakshi Ammal Publication, Chennai. Year 2002.
9. MallikaBhadrinath **a. Snacks Specials. b. Tiffin Varieties.**

**Basic Food Science Lab**  
**MODEL QUESTION PAPER**  
**COURSE CODE: HS- -106**

**DURATION: 3 Hours.**

**Write the recipe, prepare the following items for two persons and display**

- 1) Bhatura ,chole and Mango Lassi.
- 2) Missie Roti, Chocolate pudding and any one vegetable carving.
- 3) Kutchi Biryani, Onion racta and shatikhorma.
- 4) Vegetables Biryani, Butter Paneer Masala with any one vegetable carving.
- 5) AlooParatha, Trifle Pudding and Brinjal Penguin.

NOTE: Students pick up chits with various combinations of recipes, prepare and display the cooked items with a menu card. Evaluation will be done by the External Exam.

## HS-107 - Fundamentals of Garment Construction Lab

Course Title	Fundamentals of Garment Construction Lab	Course Code	HS-107
Semester	I	Course Group	Core
Teaching Scheme in Periods(L:T:P)	1:0:2	Credits	1.5
Methodology	Lecture + Practicals	Total Contact periods	45
CIE	60 Marks	SEE	40 Marks

COURSE OUT COME	
CO1	Explain about selection, care, the causes and remedies for the common faults.
CO2	Demonstrate the basic body measurements
CO3	Preparation Of Samples Of Basic Stitches
CO4	Preparation Of Samples Of Neckline Finishes, Samples In Fullness In Garments, Plackets, Openings And Fasteners
CO5	Stitch plackets-openings and fasteners, yokes and sleeves in garments.
CO6	Demonstrate Openings And Fasteners

### COURSE CONTENT:

#### Experiment: 1

**Duration: Periods-03**

**SEWING MACHINE:** Selection of Sewing Machine and Care of the Sewing Machine.

Different Parts of a Sewing machine. Common faults, Causes and Remedies.

#### Experiment:2

**Duration: Periods-03**

### BOBY MEASUREMENTS:

- i. A - Bust
- ii. B - Waist
- iii. C - Hip
- iv. D - High Hip
- v. E - Front Waist Length
- vi. F - Back Waist Length
- vii. G - Arm Length

**Experiment: 3****Duration: Periods-09****PREPARATION OF SAMPLES OF BASIC STITCHES:** Basic Stitches-Even basting, Uneven basting, Running, hemming combinational oversewing, overcasting & backstitch.**Seams-** Plain seam, French seam, Run & Fell seam & Lapped seam.**Seam finishes-** Pinked seam finish, Edge stitch seam finish, Double stitch seam finish & Herring bone stitch seam finish.**Experiment: 4****Duration: Periods-10****PREPARATION OF SAMPLES OF NECKLINE FINISHES, SAMPLES IN FULLNESS IN GARMENTS, PLACKETS, OPENINGS AND FASTENERS:****Neckline Finishes-**Facing, Piping or binding.**Darts-**Single Pointed, Double Pointed and Decorative darts.**Tucks-**Pin tucks, Corded Tucks and cross tucks.**Pleats-**Knife pleats, Box pleats, Inverted box pleats and Pinch pleats. Gathers and ruffles (single and double). .**Experiment: 5****Duration: Periods-12****POCKETS, YOKES AND SLEEVES:****Pockets:** Preparation of Patch Pocket, Flap pocket, Seam pocket and Bound pocket.**Yokes-** Preparation of Round yoke and Square yoke.**Sleeves-** Preparation of Plain sleeve, Puff sleeve, Long sleeve and Raglan sleeve.**Experiment: 6****Duration: Periods-8****Collars, Openings & Fasteners****Collars-** Preparation of Peter Pan collar, Cape collar and Shirt collar.**Openings-**Simple hem opening, Continuous wrap opening and two pieces bound opening.**Fasteners -** Buttons and Button holes, Shank buttons, Zips, Hooks and Eyes**Course Outcomes:**

<b>Course Outcome</b>		<b>Linked PO</b>	<b>Teaching Hours</b>
CO1	Explain about selection, care, the causes and remedies for the common faults.	1,2,3,4,5,9,10	<b>03</b>
CO2	Demonstrate the basic body measurements	1,2,3,4,5,9,10	<b>03</b>
CO3	Preparation Of Samples Of Basic Stitches	1,2,3,4,5,9,10	<b>9</b>
CO4	Preparation Of Samples Of Neckline Finishes, Samples In Fullness In Garments, Plackets, Openings And Fasteners	1,2,3,4,5,9,10	<b>10</b>
CO5	Stitch plackets- yokes and sleeves in garments.	1,2,3,4,5,9,10	<b>12</b>
CO6	Demonstrate Openings And Fasteners	1,2,3,4,5,9,10	<b>08</b>

**LEARNING OUTCOMES, Up on the completion of the course the student shall able to**

- To Construct and draft the different types of garments , Jangia, Jabla and basic stitches ,seams and seams finishes ,neck line finishes and pockets and collars.

**REFERENCEBOOKS:**

1. K.R.Zarapkar **Zarapkar system of cutting**, GALA publishers, Bombay, Ahemadabad, Nagpur, Pune, Madras.
2. Sheri Dongaji **Basic process & clothing construction**, New Raj Book Depot, Publishers and Book Sellers, Bengal Mal Markets.New Delhi.
3. Mary Mathews **Clothing construction–PartI, II, Basic sewing processes**, Fourthprinting- 1989.
4. Black well Science series **Introduction to clothing manufactures**,
5. Peter Morgan **Designing and pattern cutting for children Clothing**, B.TBatsfordLtd- London–1973.
6. Kettunen Minn **Fundamentals of Dress**, McGraw Hill Book company 1941

**Fundamentals of Garment Construction lab**

**MODEL QUESTION PAPER**

**COURSE CODE: HS- -107**

**DURATION: 3 Hours.**

1. Run & fell stitch, Hemming and hemline finishing .
2. Neckline finishes , Fullness in Garment
3. Stitch Neckline finishes
4. Demonstrate the collars
5. Stitch plackets-openings and fasteners,
6. yokes and sleeves in garments

## HS-108 - Sketching, Drawing & Painting Lab

Course Title	Sketching, Drawing & Painting Lab	Course Code	HS-108
Semester	I	Course Group	Core
Teaching Scheme in Periods(L:T:P)	1:0:2	Credits	1.5
Methodology	Lecture + Practicals	Total Contact periods	45
CIE	60 Marks	SEE	40 Marks

Course Content and Blue Print of Marks for SEE HS: **Sketching, Drawing & Painting Lab**  
HS-108

	<b>COURSE OUT COME</b>
CO1	Introduction about sketching, drawing & painting
CO2	Basics of sketching
CO3	Principles, techniques and materials of drawing
CO4	Applied arts
CO5	Geometrical designs
CO6	Principles, techniques and materials used for paintings

### **COURSE CONTENT:**

#### **Experiment: 1**

**Duration: Periods-5**

### **INTRODUCTION ABOUT SKETCHING, DRAWING & PAINTING**

#### **Experiment:2**

**Duration: Periods-08**

**BASICS OF SKETCHING:** Meaning of Sketching, tips used in Sketching,

**use of Tools-** Pencils, Brushes and Pens used whilesketching,

**use of different pencils** -light, dark. Rotoring Technique, Crackle and Brush dots technique, Brush and ink technique,

Dry brush different tones. General Sketching work- Smudging, hashing, Shading and detail work.

**Drawing of human figures of different ages-** Baby, Child, Woman, Man, Old and adolescent age.

**Drawing of face study of human life-** Happy, Calm, angry, worry, shocked & dull. Drawing of lips, eyes, nose, ear and their shading. Drawing of legs, foot, hand, palm & fingers. Drawing and shading of flowers, birds and animals etc.,

**Experiment: 3**

**Duration: Periods-08**

### **PRINCIPLES, TECHNIQUES AND MATERIALS OF DRAWING:**

**Elements of Design-**Line, Colour, Texture, Typography, Scale (Size), Dominance and Emphasis, Balance and Harmony.

**Principles of design-** Alignment, Hierarchy, Contrast, Repetition, Proximity, Balance, Color and Space.

**Principles of drawing-** Balance, Emphasis, Unity, Contrast, Rhythm, Pattern and Movement.

**Techniques of drawing-** Tonal, Scumble, Smudge, Hatching, Cross Hatching and Accent Lines.

**Materials used for drawing-** Pencils (Black, white and color), Pastels, Charcoal sticks, Sketch pens.

**Drawing from nature -** Leaves, flowers, trees, birds, animals etc.,

**Object drawing -** House hold objects like jars, Bottles, bowls etc.

**Experiment: 4**

**Duration: Periods-08**

**APPLIED ARTS: Materials -** Pencils, Indian ink, Drawing sheets, Ivory card, Mount board.

**Lettering and geometrical Designing –** calligraphy, graphology, writing about figures symbols and alphabets.

**Different types of calligraphy-** roman, 3-D Letters, lettering with grid method. Use of compass in making various Geometrical shapes,

**Experiment: 5**

**Duration: Periods-08**

**Geometrical designs-** Circles, Squares. Creative designs without using Geometrical Instruments. Enlarging and reducing the designs.

**STILL LIFE:** Still Life objects – Symmetrical, Jars, Bottles& Pot. Asymmetrical – book and rectangular box. Perspective Drawing – 3dimentinal objects on a 2-dimentional surface on Paper or Canvas.

### **Experiment: 6**

**Duration: Periods-08**

### **PRINCIPLES, TECHNIQUES AND MATERIALS USED FOR PAINTINGS:**

Principles of painting, Techniques of painting,

**Materials used for painting** – Handmade paper, Oil colour sheets, Canvas boards, Cloth for fabric painting, Water colours, Oil colours, Fabric paints, Palette Knives for colour mixing, Brushes and water colour Palette.

**COLOUR THEORY:** The application of Poster colours, Fabric colours, Colour wheel and Colour Schemes.

**POSTER AND FABRIC PAINTING:** Obtaining colours and application of Poster colours & Poster designs, obtaining paints and application of Fabric paints.

**OIL PAINTINGS:** Oil paints, Colour mixing to obtaining paints, Application of oil paints.

Course outcomes:

Course Outcome		Linked PO	Teaching Hours
CO1	Explain the prehistoric Art forms, Harappa and Mohenjo-Daro civilization, Ajanta paintings & Temple sculptures.	1,2,3,4,5	05
CO2	Explain the principles and techniques of design and drawing.	1,2,3,4,5,	08
CO3	Demonstrate the tips used in sketching.	1,2,3,4,5	08
CO4	Learn and Demonstrate the tips used in sketching, Still life & Perspective drawing.	1,2,3,4,5	08
CO5	Draw Poster, Fabric & Oil Painting.	1,2,3,4,5	08
CO6	Demonstrate making of sculpture.	1,2,3,4,5	08

**LEARNING OUTCOMES, Up on the completion of the course the student shall able to**

- Prepare the designs and drawing ,sketching, poster color, fabric painting, oil painting , sculpture

**REFERENCE BOOKS:**

1. Gene Franks **Pencil Drawing**, A Walter foster publications.
2. Michael Chinery Maurice Plkedger**Garden birds Illustrated**.
3. Lola Ades**Flowers and Designs to copy**.
4. K.V.KambleAnupam**Design drawing**, Gala publications (India)

**Sketching, Drawing & Painting Lab**

**MODEL QUESTION PAPER**

**COURSE CODE: HS- -108**

**DURATION: 3 Hours.**

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1. A) Draw any two principles of design.
  - b) Draw any one still life object.
  - c) Draw and paint the fine design on the fabric.
  - d) Record
2. A) Draw any two element of design.
  - b) Draw a face according to preparation.
  - c) Draw a geometrical design square and a circle fitted in the square.
  - d) Record.
3. A) Draw a design and show you would reduce and enlarge it.
  - b) Draw a flower and paint with poster colours size should be 6/6'
  - c) Paint a design with fabric colours.
  - d) Record.
- 4.A) Draw a flower and shade it with pencil.
  - b) Make any two type of flowers or fruit with moddling clay.
  - c) Paint the given design on the material with fabric colours.
  - d) Record.

## HS-109 - BEAUTY CLINIC LAB

Course Title	Beauty Clinic Lab	Course Code	HS-109
Semester	I	Course Group	Core
Teaching Scheme in Periods(L:T:P)	1:0:2	Credits	1.5
Methodology	Lecture + Practicals	Total Contact periods	45
CIE	60 Marks	SEE	40 Marks

### Course Content and Blue Print of Marks for SEE HS BEAUTY CLINIC LAB HS-109

	<b>COURSE OUT COME</b>
CO1	Importance of Beauty, Yoga, Meditation, and Exercise.
CO2	Demonstrate threading of Eyebrows, Chin, Upper lip and Waxing.
CO3	Demonstrate Manicure and Pedicure
CO4	Demonstrate different Bleaching & Facial treatment methods.
CO5	Demonstrate Hair Cuts, Hair Dyeing Mehendi, and Henna Treatment.
CO6	Practice Makeup and Hair styles.

### **COURSE CONTENT:**

#### **Experiment: 1**

#### **Duration: Periods-05**

**1.0 INTRODUCTION TO HEALTH & BEAUTY,:** Importance of Beauty-Care of Hair, Eyes, lips, teeth, skin, nails, hands and feet.

**2.0 YOGA AND EXERCISE:** Importance of yoga in beauty, Eight stages of Yoga- Yama, Niyama, Pranayama, Pratyahara, Dharana, Dhyana, Samadhi. Importance of Meditation, Importance of Exercise, Ways of exercising and Relaxation methods.

**Experiment: 2**

**Duration: Periods-08**

**THREADING AND WAXING:** Practice in threading of Eye brows, Lower chin, Upper lip, Hands and Legs

**Experiment: 3**

**Duration: Periods-08**

**MANICURE & PEDICURE:** Cutting and grooming nails, Cleaning, massaging hand and feet.

**Experiment: 4**

**Duration: Periods-08**

**FACIAL:** Different Facial Treatments, Herbal & Synthetic Cream massages, Different Face masks, Home packs and Nourishing creams.

**Experiment: 5**

**Duration: Periods-08**

**HAIRCUTS, HAIR DYEING MEHENDI, & HENNA TREATMENT:** Straight cut, "U" cut, deep "U" cut, "V" cut, Step cut, Boy and baby cut. Hair dyeing-Powder, Liquid, synthetic and Herbal dyeing.

**Experiment: 6**

**Duration: Periods-08**

**MAKEUP :** Types of makeups for different occasions and ages-beauty-aids makeups Bridal, Party (for day events and night events), Follow tips for eye, eyebrow, Lips, and cheeks makeup. Do Makeup and hair styles-any five styles like French Knot etc.

Course outcomes:

Course Outcome		Linked PO	Teaching Hours
CO1	Importance of Beauty, Yoga, Meditation, and Exercise.	1,2,3,4,5	05
CO2	Demonstrate Threading of Eyebrows, Chin, Upper lip and Waxing.	1,2,3,4,5	08
CO3	Demonstrate Manicure and Pedicure	1,2,3,4,5	08
CO4	Demonstrate different Bleaching & Facial treatment methods.	1,2,3,4,5	08
CO5	Demonstrate Hair Cuts, Hair Dyeing Mehendi, and Henna Treatment.	1,2,3,4,5	08
CO6	Practice Makeup and Hair styles	1,2,3,4,5	08

**LEARNING OUTCOMES, Up on the completion of the course the student shall able to**

- Student is able to do the make up, hair style ,manicure and pedicure ,Hair dyeing and henna treatment, Mehendi, Makeup

**REFERENCE BOOKS:**

1. Shahnaz Husain's **Shahnaz Husain's Beauty Book**, Orient paperbacks A Division of Visions Books PVT.Ltd.,
2. ChhoDerBeauty & Body book.
3. KittycarpionHerbal **Beauty**

**BEAUTY CLINIC LAB**  
**MODEL QUESTION PAPER**

**COURSE CODE: HS- -109**

**DURATION: 3 Hours.**

1. Demonstrate Facial using strokes .
2. Demonstrate pedicure/ manicure.
3. Demonstrate hair styles.
4. Demonstrate Hair Cuts, Hair Dyeing Mehandi
5. Demonstrate different Bleaching
6. Demonstrate Facial treatment methods.

## CS-110 - Basic Computer Science Lab

Course Title	Basic Computer Science Lab	Course Code	CS-110
Semester	I	Course Group	Practical
Teaching Scheme in Periods (L:T:P)	1:0:2	Credits	1.5
Methodology	Lecture +Tutorial	Total Contact Periods	45
CIE	60 Marks	SEE	40 Marks

**Pre-requisite:** The students should have basic knowledge of and basic knowledge of using computer

### COURSE OUTCOME

CO1	Creating and saving a document, Formatting of text in MS-WORD
CO2	Spell checking, Mail merging and Printing of Documents in MS-WORD
CO3	Creating and Saving a presentation, inserting text and pictures & Formatting the text and pictures, Slide transition and Animation effects in MS-POWER POINT
CO4	Building Worksheet & Charts In Ms-Excel and Printing Of Worksheet
CO5	Creating Database, Tables, Forms, Queries, Reports In Ms-Access

### Course Contents

#### 1. Unit-I: Creating, Saving a document, Formatting of text in MS-WORD

**Duration: 5 hrs**

- MS\_WORD - Creating and saving a document, Formatting of text

#### 2. Unit-II: Spell checking, Mail merging and Printing of Documents in MS-WORD MS Word

**Duration: 10 hrs**

- MS-WORD - Spell Checking - Mail merging - Printing of Documents

#### 3. Unit-III: Creating and Saving a presentation in MS Powerpoint and Slide transition and Animation effects

**Duration: 10 hrs**

- MS-POWER POINT - Creating and saving a presentation - Inserting text and pictures

- Formatting the text and pictures- MS-POWER POINT - Effects of slide transition - Animation effects - Slide show & views of slides

#### **4. Unit-IV Building & Charts in MS-Excel and Printing Of Worksheet**

**Duration: 10 hrs**

- Building Worksheets – Building Charts, Printing EXCEL Worksheet

#### **5. Unit-V Creating Database, Tables, Queries, Forms ,Reports & Printing**

**Duration: 10 hrs**

- Creating Table, Viewing(ACCESS) – Creating Forms – Creating Queries and Viewing Database
- Creating of ACCESS Reports – Printing of ACCESS Tables, Forms, Reports

### **Specific Learning Outcomes:**

#### **1.0 Practice Operation of MS-Word.**

- 1.1 Demonstrate starting MS word.
- 1.2 Identify the word screen elements.
- 1.3 Identify the tool bars on the screen.
- 1.4 Demonstrate loading different tool bars for their functionality.
- 1.5 Identify the drop down menus of the main menu and their functionality.
- 1.6 Demonstrate creating a sample text.
- 1.7 Demonstrate text formatting.
- 1.8 Demonstrate page formatting.
- 1.9 Demonstrate selecting, deselecting the text from menu and Copying.
- 1.10 Demonstrate importing text from other packages.

#### **2.0 Spell checking, Mail merging and Printing of Documents in MS-WORD**

- 2.1 Demonstrate search and replace of text.
- 2.2 Demonstrate spell checking.
- 2.3 Demonstrate creating tables.
- 2.4 Demonstrate mail merging of documents.
- 2.5 Demonstrate printing documents, merge printing of documents.

- 2.6 Demonstrate word procedure for importing figures, charts from other installed software.

### **3.0 Practice operation of MS-Power Point and Slide transition and Animation effects.**

- 3.1 Demonstrate starting MS Power Point.
- 3.2 Identify the opening screen elements.
- 3.3 Identify the tool bars in the opening screen.
- 3.4 Demonstrate the selection of the methods of creating a new presentation.
- 3.5 Identify the different Auto Layouts of a slide.
- 3.6 Demonstrate creating a new slide
- 3.7 Demonstrate inserting a new slide.
- 3.8 Demonstrate slide transition effects.
- 3.9 Demonstrate a slide show.
- 3.10 Demonstrate animation effects.
- 3.11 Demonstrate creating an organization chart.
- 3.12 Identify the different slide views.

### **4.0 Building Worksheets & Charts in MS-Excel**

- 4.1 Start EXCEL from the start
- 4.2 Identify the various parts of the window.
- 4.3 Identify the tabs and groups in ribbon layout
- 4.4 Identify and customizing the quick access toolbar
- 4.5 Identify the office button and commands of the drop down menu.
- 4.6 Practice loading of the existing worksheet or create a new worksheet.
- 4.7 Practice entering into the worksheet.
- 4.8 Practice formatting the cells.
- 4.9 Practice formatting the texts in the cells.
- 4.10 Practice changing the height and width of the cells.
- 4.11 Practice freezing the rows, columns.
- 4.12 Practice splitting the screens.
- 4.13 Enter formulas into the cells.
- 4.14 Enter formulas with built in functions.
- 4.15 Create a range name for the cells for group operations.
- 4.16 Create graph for the data in the worksheet.

### **5.0 Creating Database, Tables, Queries and Forms**

- 5.1 Practice loading Ms Access from the start menu.
- 5.2 Create a database table using Database Wizard.
- 5.3 Enter data into the table.
- 5.4 Edit data in the table.
- 5.5 View data from the database.
- 5.6 Design a query.
- 5.7 View data using the query.
- 5.8 Demonstrate creating Forms.
- 5.9 View the database through Forms.
- 5.10 Practice navigating through the database through Forms.
- 5.11 Practice creating Custom Form using Forms Wizard.
- 5.12 Practice creating Reports using the Report Wizard.
- 5.13 Practice printing the tables, forms and reports.

## **EXERCISES**

1. Create and save a document using MS WORD.
2. Format the Text document.
3. Change the page set-up and Insert Header/Footer.
4. Spell checking in the document.
5. Print the document.
6. Create main document and data file for mail merging.
7. Print the document with mail merging.
8. Create a table in the document.
9. Add row, column to a table.
10. Create and save a new presentation using MS Power Point.
11. Choose Auto Layout for a new slide.
12. Inserting text and pictures into a blank slide.
13. Inserting new slides into the presentation.
14. Applying slide transition effects.
15. Demonstrate a slide show.
16. Set animation to text and pictures in a slide.
17. Set the sounds, order and timing for animation.
18. Create and save a new work book in Excel
19. Operating Mouse to selecting tabs, groups, cells, group of cells

20. Entering Data into Worksheet
21. Editing of Worksheet
22. Formatting the text in the cells
23. Formatting the numbers in the cells.
24. Changing the height and width of cells.
25. Freezing Titles, splitting screen
26. Enter formulae for calculation in the cells.
27. Copying the formula over a range of cells.
28. Inserting built-in functions in to the cells.
29. Create graphs for the data using Chart Wizard.
30. Practice Data Forms in Excel.
31. Printing of worksheet
32. Creating Tables using wizard in Access
33. Creating Tables using Design View in Access.
34. Entering Data into tables
35. Viewing the data in table.
36. Creating a new query using wizard.
37. Creating a new query using design view.
38. Viewing the data using a Select Query.
39. Updating the data in table using Update Query.
40. Linking two Tables on Relational Aspect.
41. Create forms using Form Wizard.
42. Create reports using Report Wizard.
43. Printing the tables, forms and reports

### **Suggested Student Activities**

1. Student visits Library to refer to Manual for the specifications
2. Student inspects the available equipment in the Lab to identify the components
3. Visit nearby Industry to familiarize with fabrication techniques
4. Analyze the connections in the UPS available in the Institution facility
5. Quiz , Group discussion, Surprise test

### RECOMMENDED BOOKS:

1. Teach yourself Office 2007 for Windows – Coray Sandler, Tom Badgett, Jan Weingarten, BPB Publications.
2. The ABC s of MS Office 2007– Guy Hard-Davis, BPB Publications.
3. Working in MS Office - Ran Mansfield, Tata McGraw Hill Publications.

### Student E-Learning reference

1. <https://www.tutorialspoint.com/word/index.htm>
2. <https://www.tutorialspoint.com/powerpoint/index.htm>

### CO / PO MAPPING MATRIX

	COURSE OUTCOME	CL	Linked PO	Teaching Hrs
CO1	Creating and saving a document, Formatting of text in MS-WORD	R/U/A	1,2,3,4,7	5
CO2	Spell checking, Mail merging and Printing of Documents in MS-WORD	R/U/A	1,2,3,4,7	10
CO3	Creating and Saving a presentation, inserting text and pictures & Formatting the text and pictures and Slide transition and Animation effects in MS-POWER POINT	R/U	1,2,3,4,7	10
C04	Building Worksheet & Charts In Ms-Excel and Printing Of Worksheet	R/U/A	1,2,3,4,7	10
C05	Creating Database, Tables, Forms, Queries, Reports In Ms-Access	R/U/A	1,2,3,4,7	10

MODEL PAPER OF **MID SEM- I EXAM**

TIME: 1 hr

MARKS: 20

ANSWER ANY ONE QUESTION. EACH QUESTION CARRIES TWENTY MARKS.

20 x 1 = 20

1. Demonstrate Starting MS word and identify the word screen elements.
2. Draw and explain the groups and commands in Home tab under ribbon in Ms word.
3. Demonstrate text formatting in Ms word.
4. Demonstrate procedure for checking of spelling and grammar using dictionaries.
5. Demonstrate paragraph formatting in Ms word.
6. Draw and explain the groups and commands in page layout tab under ribbon in Ms word.
7. Demonstrate page formatting in Ms word.
8. Demonstrate procedure for creating Mail merging process in Ms word.
9. Demonstrate creating of table and adding rows and columns to the existing table in Ms word.
10. Demonstrate finding and replacing of text & searching for a bookmark.
11. Demonstrate starting of MS Power Point and identify the opening screen elements.
12. Draw and explain the groups and commands in Home tab under ribbon in MS Power Point.
13. Demonstrate different Auto Layouts of a Slide in MS Power Point.
14. Demonstrate Slide Transition effects in Ms Power Point.
15. Demonstrate different Animation effects in Ms Power Point.
16. Draw and explain the groups and commands in Animations tab under ribbon in MS Power Point.
17. Demonstrate different Slide views in MS Power Point.
18. Draw and explain the groups and commands in Review tab under ribbon in MS Power Point.
19. Demonstrate inserting and formatting of text and pictures in MS Power Point.

MODEL PAPER OF **MID SEM- II EXAM**

TIME: 1 hr

MARKS: 20

ANSWER ANY ONE QUESTION. EACH QUESTION CARRIES TWENTY MARKS. 20  
x 1 = 20

1. Write procedure to open Excel window and Draw and label the parts in Excel window.
2. Draw and Write about groups and commands under Formulas tab under the ribbon in MS-Excel.
3. Write procedure to format the text in the cells.
4. Write procedure to enter formulas with built in functions.
5. Write procedure for creating chart in MS-excel.
6. Write Procedure for formatting numbers in MS-Excel.
7. Write procedure for writing criteria and extract the data.
8. Write procedure for printing of a worksheet.
9. Write procedure for formatting of chart in Ms-excel.
10. Write procedure to jump to different workbooks & import worksheet from different workbook.
11. Write procedure to create a database.
12. Write procedure to create a table using design view.
13. Write procedure to create form using forms wizard.
14. Write procedure for creating reports using report wizard.
15. Write procedure for creating a Custom Form.
16. Write the procedure to create custom reports.
17. Write the procedure to print active sheet.
18. Write the procedure for Printing of reports.
19. Draw and explain the groups and commands in create tab under ribbon in Ms access.
20. Write the procedure for creating Filter by form.

## MODEL PAPER OF END SEMESTER EXAM

TIME: 2hr

MARKS : 40

ANSWER ANY ONE QUESTION. EACH QUESTION CARRIES TWENTY MARKS.

20 x 1 = 20

1. Write procedure for Creating and saving a document and draw and label the different parts of opening screen elements in Ms word.
2. Draw and explain the groups and commands in Home tab under ribbon in MS Power Point.
3. Write procedure for applying sounds, order, timing and effects of animation in a presentation.
4. Write procedure for character formatting in Ms word.
5. Draw and explain the groups and commands in Home tab under ribbon in Ms word.
6. Write procedure for creating main document and data file for mail merging.
7. Write procedure for page formatting in Ms word.
8. Write procedure for checking spelling and grammar using dictionary in Ms word.
9. Write procedure for printing of document in Ms word.
10. Draw and explain the groups and commands in Animations tab under ribbon in MS Power Point.
11. Write procedure to open Excel window and Draw and label the parts in Excel window.
12. Draw and Write about groups and commands under Formulas tab under the ribbon in MS-Excel.
13. Write procedure to format the text in the cells.
14. Write procedure to enter formulas with built in functions.
15. Write procedure for creating chart in MS-excel.
16. Write Procedure for formatting numbers in MS-Excel.
17. Write procedure for writing criteria and extract the data.
18. Write procedure for printing of a worksheet.
19. Write procedure for formatting of chart in Ms-excel.

20. Write procedure to jump to different workbooks & import worksheet from different workbook.
21. Write procedure to create a database.
22. Write procedure to create a table using design view.
23. Write procedure to create form using forms wizard.
24. Write procedure for creating reports using report wizard.
25. Write procedure for creating a Custom Form.
26. Write the procedure to create custom reports.
27. Write the procedure to print active sheet.
28. Write the procedure for Printing of reports.
29. Draw and explain the groups and commands in create tab under ribbon in Ms access.
30. Write the procedure for creating Filter by form.

Record book :- 10 marks

Viva-voce:- 10 marks

## HS-111-SKILL UPGRADATION

Course Title	Skill Upgradation	Course Code	HS-111
Semester	I	Course	Core
Teaching Scheme in periods	0:0:8	Credits	2.5
Methodology	Activities	Total Contact	120
CIE	Rubrics	SEE	NIL

**Rationale:** This course is introduced for all semesters with a purpose of providing outside classroom experiences that lead to overall development of the students. One whole day is allocated for activities.

### Course Objective

1. To create an awareness on Engineering Ethics and Human Values.
2. To instill Moral, Social Values and Loyalty.
3. Create awareness about social responsibilities of Engineers
4. To improve Communication and Participation skills

Course Content and Blue Print of Marks for SEE			
Activity No	Activity	Periods	Frequency
1	Haritha Haram(plantation &Maintenance)	9	3 times in a semester
2	Waste management	12	3 times in a semester
3	Swatch Bharat	28	4 times in a semester
4	Mini projects	7	1 time in a semester
5	Video Clips	9	3 times in a semester
6	Seminar/Quiz/Presentation/Group discussion	18	6 times in a semester
7	Local Visits (also with in the campus)	6	2 times
8	Expert Lectures <ul style="list-style-type: none"> <li>• Human Values</li> <li>• Anti-ragging Laws</li> <li>• Responsibilities of a good citizen</li> </ul>	16	4 Times
Total Periods		105	

Note: in case Expert faculty are not available English faculty should handle the expert lectures or Video clips on the suggested lectures may be played

### Course Outcomes

CO	Outcome	CO/PO Mapping
CO1	Practice the moral values that ought to guide the Engineering profession.	1,2,5,6,7,8,9,10
CO2	Develop the set of justified moral principles of obligation, ideals that ought to be endorsed by the engineers and apply them in real life situations	8,10
CO3	Create awareness of saving environment through activities	3,4,5,8,9
CO4	Create awareness of Constitution of india	1,4,7,8,9,10

### COURSE CONTENT:

Professional Ethics-Objectives of study of professional ethics-Human values- Definition of Morals and Ethics-Difference between Morality and Ethics-Values-Definition-Types of values-Definition of Integrity- Concept of Work Ethic- Service Learning - Definition Virtues-Definition-Civic Virtue-Duties and Rights - Respect for Others – Attitude and values, opinions-changing attitude-beliefs-Reliability-Living Peacefully-Means to be adopted for leaving peacefully-Caring-Sharing-Honesty-Valuing Time-Co-operation-Commitment-Empathy-Self-Confidence-Spirituality. –Responsibilities of a good citizen

### Evaluation:

The student must maintain a record of all activities conducted on *skill upgradation/ Activities* day and prepare a soft copy of report and submit it to their mentor or upload to the institute website or mail.

The reports shall be evaluated by the mentors through rubrics and accordingly give the eligibility for 2.5 credits . The student must have participated in at least 75% of activities to get eligibility.

### CO-PO Mapping Matrix

Course Outcome	Basic knowledge	Discipline Knowledge	Experiments and practice	Engineering Tools	Engineer and society	Environment & sustainability	Ethics	Individual and Team work	Communication	Lifelong learning	Mapped PO
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
CO1					Y					Y	5,10
CO2					Y					Y	5,10
CO3						Y	Y		Y	Y	6,7,9,10
CO4					Y		Y			Y	5,7,10

## Basic English – Skills Upgradation

### TASK:

**LEVEL 1:** Collection of material for learning skills

**LEVEL2:** Analysis of the material

**LEVEL 3:** Practice the activities

**LEVEL 4:** Assessment of the skills acquired

### Activity before the activities:

*Collect the material useful for learning Listening, Speaking, Reading, Writing (LSRW skills), Grammar and Vocabulary.*

- 1. Collect newspaper clippings, books, puzzles, pictures, audio and video programmes in English.*
- 2. Talk to your classmates, seniors, alumni, teachers, successful people in job interviews and celebrities.*
- 3. Visit libraries to gather information.*
- 4. Visit useful websites for acquiring language learning skills.*

### Activities:

1. Collect / Go through the different kinds of dictionaries and find out the differences.
  - a) List out the English words which are originated from Telugu, Hindi, Sanskrit and other Indian languages.
  - b) Prepare a list of technical words related to your branch.
  - c) Prepare the list of Homonyms, Homophones. Heteronyms, Heterophones and Capitonyms.
2. Collect the vocabulary building games and activities. Practice them individually, in pairs and groups.
3. Learn different kinds of reading a text. Practice various kinds of reading material.
4. Find out the differences between reading aloud and silent reading. Identify the advantages and disadvantages of speed reading.
5. Conduct a survey on the need for English. Talk to your classmates or seniors and find out the difficulties while learning English.
6. Practice dialogues on
  - a) Feelings
  - b) Likes & dislikes
  - c) Requests

- d) Obligations  
(Dramatize the dialogues)
7. Introduce yourself through a line up activity or inner and outer circle activity.
  8. Introduce tenses:
    - a) Write the diary using present tense.
    - b) Write an anecdote in past tense.
    - c) Prepare the weather forecast for the next week in future tense.
  9. Observe the picture / photo and describe the persons, places and things using the describing words and prepositions.
  10. Role play: Interview a celebrity using 'wh' and 'yes/no' questions.
  11. Identify what is there in the bag using 'yes/no' questions.
  12. Arrange the jumbled sentences in an order to make a meaningful paragraph.
  13. Write a paragraph on your goals.
  14. Write a letter to God / a celebrity.
  15. Collect the letters written by great leaders, celebrities and officers.

Note: The above activities are indicative. The teacher may assign any other activity relevant to the skills introduced in the semester.

### COURSE OUTCOMES

No.	At the end of the course, the students will have the ability to:
<b>101.1</b>	Use a dictionary and acquire vocabulary for social interaction.
<b>101.2</b>	Comprehend, identify main ideas, make inferences, visualize, and answer questions. Analyze and evaluate the written material.
<b>101.3</b>	Speak and write grammatically correct sentences, communicate effectively, express their likes, dislikes, feelings, make requests, express obligations and introduce themselves.
<b>101.4</b>	Use verbs in the different tenses according to the situations. Use Voice to express an action clearly
<b>101.5</b>	Describe people and objects, ask questions, use prepositions and write grammatically correct sentences.
<b>101.6</b>	Convey ideas in the form of paragraphs and letters

### CO-PO Matrix

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	Mapping POs
101.1	-	-	-	-	3		3	5,7
101.2	-	-	-	-	3	2	3	5,6,7
101.3	-	-	-	-	3	3	3	5,6,7
101.4	-	-	-	-	2	2	3	5,6,7
101.5	-	-	-	-	2	2	3	5,6,7
101.6		-	--	--	2		3	5,7

