

Vallabh Vidyanagar Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.11) Syllabus with effect from the Academic Year 2023-2024

Bachelor of Science-Home Science (B.Sc.-H.Sc.) (Foods and Nutrition) Semester (I)

Course Code	UH01MAFND01	Title of the Course	Fundamentals of Foods and Nutrition (Theory)
Total Credits of the Course	4	Hours per Week	4

Course	To Enable Students to-
Objectives	1. Impart knowledge pertaining to different food groups, nutritive value and importance in daily diet.
	2. Understand the functions of food and the role of various nutrients, their requirements, effect of deficiency and excess.
	3. Familiarize students with different methods of cooking, their advantages and disadvantages.
	4. Gain knowledge of improving nutritional quality of food

Unit	Course Content	Weight age*
2.	 (a) Definition of food, Nutrition, functions of Foods, Basic five food groups and their contribution to balanced diet. Energy, sources, function & deficiency (b) Classification, sources, functions and deficiency and excess of Protein, Carbohydrate and Fat. (c) Classification, sources, functions and deficiency of Minerals: Calcium, Phosphorus, Sodium, Potassium, Iron, Zinc, Fluorine, Iodine, Selenium, Magnesium (a) Classification, sources, function of Fat-soluble vitamins: Vitamin A,D,E, K (b) Classification, sources, function of water- soluble vitamins: Thiamine, Riboflavin, Niacin, Pyridoxine, B12, folic acid and vitamin C 	25
3.	 (a) Introduction, Aims and Objectives of Cooking, i. Definition: Cooking, ii. History of cooking- Origin of Cookery iii. Safety at work place - Prevention, precaution, evacuation and first aids. iv. General Principles of Food Hygiene v. Personal hygiene and its necessity, Protective Clothing and its importance. 	25



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(b) Pre-t	preparation techniques	
	Washing	
	Peeling & Scraping	
	Pairing	
	Cutting	
	Grating	
vi. (Grinding	
vii. N	Mashing	
viii. S	Sieving	
ix. I	Milling	
x. S	Steeping	
xi. (Centrifuging	
xii. I	Emulsifying	
xiii. I	Evaporation	
xiv. I	Homogenization	
xv. I	Beating	
xvi. I	Blending	
xvii. (Cutting in	
kviii. (Creaming	
xix. I	Folding	
xx. I	Kneading	
xxi. I	Pressing	
xxii. I	Rubbing in	
kxiii. I	Rolling in	
xxiv. S	Stirring	
4. Methods	s of Cooking	
	Introduction to different terminologies used in cooking techniques.	
	Modes of heat transfer: Radiation, Conduction and Convection	
	Moist heat methods: Boiling, Simmering, Poaching, Steaming,	
	Pressure cooking	
	Dry heat methods:	
	a) Air as medium of cooking: Grilling, broiling, roasting, Baking	25
	b) Fat as medium of cooking: Sautéing, Shallow fat frying, Deep	25
	fat frying	
	Combined (Moist and dry) Methods: Braising, Stewing	
	Other cooking methods: Germination, Fermentation, Braising,	
	Microwave cooking, Solar cooking.	
	Advantages and Disadvantages (Nutrient Losses) of Cooking and	
	methods to prevent nutrient loss	

Teaching-	Lecture, Group Discussion, Quizzes, Expert talk, Audio visual aids
Learning	
Methodology	





Evaluation Pattern				
Sr. No.	Details of the Evaluation	Weightage		
1.	Internal Written Examination (As Per CBCS	15%		
	R.6.8.3)			
2.	Internal Continuous Assessment in the form of	15%		
	Quizzes, Seminars, Assignments (As Per CBCS			
	R.6.8.3)			
3.	University Examination	70%		

Co	Course Outcomes:			
Ha	Having completed this course, the learner will be able to			
1.	Identify various food groups and would be able to judiciously use according to the source of availability			
2.	Identify various macro and micronutrients and their need in the body.			

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

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





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Bachelor of Science-Home Science (B.Sc.-H.Sc.) (Foods and Nutrition) Semester (I)

Course Code	UH01MAFDN02	Title of the Course	Fundamentals of Foods and Nutrition (Practical)
Total Credits of the Course	4	Hours per Week	4

Course	To Enable Students-	
Objectives	1. Familiarize students with different methods of cooking, their	
	advantages and disadvantages	
	2. Gain knowledge of improving nutritional quality of food.	
	3. Familiarise students with the controlling techniques by	
	standardisation of recipes	

Unit	Course Content	Weightage*(%)
1.	Market survey of locally available food items viz. cereals, pulses, fruits, vegetables, milk and milk products, fats and oils, nuts and oilseeds, sugar and Jaggary, meat, fish, and poultry and miscellaneous food items like biscuits, jams, jellies, ketchup etc. and their cost	5
2.	Calculate the cost of food required for providing a given amount of nutrient To calculate the amount of food required for obtaining a given amount of nutrient. Classify foods on the basis of nutrients: Carbohydrates, Protein, Fat, Minerals and Vitamins.	5
3.	Introduction, use and care of kitchen equipment used for regular as well as special cooking methods	5
4.	 Weights and Measurement Controlling techniques: a. Standard and household measures for raw and cooked foods, recipe and evaluation of the product. b. Amount of ingredients to be used in standard recipe vis-à-vis, portion size 	5
5.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Carbohydrates.	5
6.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Carbohydrates.	5





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7.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Protein	5
8.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Protein.	5
9.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Fat.	5
10.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Fat.	5
11.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Vitamin A.	5
12.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Vitamin A.	5
13.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Thiamine.	5
14.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Thiamine.	5
15.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Riboflavin.	5
16.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Riboflavin.	5
17.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Iron and Vitamin C	5
18.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Iron and Vitamin C.	5
19.	Planning of recipes using various cooking techniques and calculation of nutritional values, portion size and its application on treating the deficiency of Calcium and Niacin.	5
20.	Preparation of recipe using various cooking techniques, assessing the nutritional quality, portion size in comparison of the various recipes prepared for Calcium and Niacin.	5

Teaching-	Lecture, Group Discussion, Demonstration, Quizzes, survey,
Learning Methodology	Experiential learning





Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As Per CBCS	15%
	R.6.8.3)	
2.	Internal Continuous Assessment in the form of	15%
	Quizzes, Seminars, Assignments (As Per CBCS	
	R.6.8.3)	
3.	University Examination	70%

Co	Course Outcomes:	
Ha	Having completed this course, the learner will be able to	
	Understand the nutritional contribution of and effect of cooking on different food	
1.	· groups.	
_	Prepare dishes using principles of cooking methods and assess serving size	
2.	2.	
	Demonstrate ways of reducing nutrient losses during different methods of cooking	
3. and methods of enhancement of nutritional quality of foods		

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

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Bachelor of Science-Home Science (B.Sc.-H.Sc.) (Foods and Nutrition) Semester (I)

Course Code	UH01MIFDN01	Title of the	Basic Food Preparation
		Course	(Theory)
Total Credits of	2	Hours per	2
the Course		Week	

Course	1. To aware students with the terminologies of cooking
Objectives	2. To remember the various cooking techniques
	3. To understand the differences in various cooking methods

Unit		Course Content	Weightage*
1.	(a) In	troduction, Aims and Objectives of Cooking,	50
	i.	Definition: Cooking,	
	ii.	History of cooking– Origin of Cookery	
	iii.	Safety at work place – Prevention, precaution, evacuation	
		and first aids.	
	iv.	General Principles of Food Hygiene	
	v.	Personal hygiene and its necessity, Protective Clothing and	
		its importance.	
	(b) Pr	re-preparation techniques	
	i.	Washing	
	ii.	Peeling & Scraping	
	iii.	Pairing	
	iv.	Cutting	
	v.	Grating	
	vi.	Grinding	
	vii.	Mashing	
	viii.	Sieving	
	ix.	Milling	
	х.	Steeping	
	xi.	Centrifuging	
	xii.	Emulsifying	
	xiii.	Evaporation	
	xiv.	Homogenization	
	XV.	Beating	
	xvi.	Blending	
	xvii.	Cutting in	
	kviii.	Creaming	
	xix.	Folding	





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		1 1
XX.	Kneading	
xxi.	Pressing	
xxii.	Rubbing in	
xxiii.	Rolling in	
xxiv.	Stirring	
2. (a) H	leat Transfer & its relationship to Food Preparation	50
i.	Heat Fusion	
ii.	Thermal Conductivity	
iii.	Induction Cooking	
iv.	Heat Removal-Cooling	
v.	Freezing of Foods	
vi.	Thawing of Foods	
vii.	Re-heating of Food	
viii.	Effects of Heat on Foods	
	loist Heat Methods: (Merits and Demerits)	
i.	Scalding	
ii.	Poaching	
iii.	Simmering	
iv.	Stewing	
V.	Braising	
vi.	Boiling	
vii.	Blanching	
viii.	Steaming	
ix.	Pressure cooking	
17.	1 Tessure cooking	
(c) D:	ry Heat Methods: (Merits and Demerits)	
i.	Baking	
ii.	Toasting	
iii.	Grilling	
iv.	Roasting	
v.	Sautéing	
vi.	Frying	
vii.	Broiling	
(d) C	ombination Cooking Methods: (Merits and Demerits)	
(e) M	icrowave Cooking	
(f) So	olar Cooking	





Evaluation Pattern			
Sr. No. Details of the Evaluation Weightage		Weightage	
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%	
2.	Internal Continuous Assessment in the form of Quizzes,	15%	
	Seminars, Assignments, Attendance (As per CBCS R.6.8.3)		
3.	University Examination	70%	

Course Outcomes: Having completed this course, the learner will be able to		
1.	1. Recall the terminologies of cooking	
2.	2. Identify the various cooking techniques	
3.	3. Sort the differences in various cooking methods	

Sr.	. No	References	
	1.	Raina, U et al (2015) Fourth Edition, Basic Food Preparation- A Complete Manual, Orient Longman Publication	
	2.	Thangham. P,(2004)Vol-1 and 2, Modern Cookery for teaching and the trade, Orient Longman Publication	

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





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Bachelor of Science-Home Science (B.Sc.-H.Sc.) (Foods and Nutrition) Semester (I)

Course Code	UH01MIFDN02	Title of the Course	Basic Food Preparation (Practical)
Total Credits of the Course	2	Hours per Week	4

Course Objectives	 To gain practical knowledge of cooking. To learn the differences in various cooking methods.

Unit	Course Content	Weightage %
1.	Practicing various Pre-preparation techniques:	10
	Washing, Peeling & Scraping, Pairing, Grinding, Mashing, Sieving, Steeping, Centrifuging, Emulsifying, Evaporation, Homogenization	
2.	Learning various types of cutting techniques:	10
	Fine Dice, Shredding, Match stick cuts, Small dice, Medium dice, Large Dice, Slicing.	
	Beating, Blending, Creaming, Folding, Kneading, Pressing,	
	Rubbing in, Rolling in, And Stirring.	
3.	Prepare one recipe using each method of the following:	80
	 i. Boiling and blanching ii. Steaming iii. Pressure cooking i. Baking ii. Toasting iii. Grilling iv. Roasting v. Sautéing vi. Frying vii. Microwave Cooking viii. Solar Cooking 	





Teaching-	Experiential learning, Audio visual aids, Workshops. group learning
Learning	
Methodology	

Evaluation Pattern			
Sr. No.	o. Details of the Evaluation Weightage		
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%	
2.	Internal Continuous Assessment in the form of Quizzes,	15%	
	Seminars, Assignments, Attendance (As per CBCS R.6.8.3)		
3.	University Examination	70%	

Course	Course Outcomes:		
Having	Having completed this course, the learner will be able to		
	Do basic cooking		
1.			
	Identify various types of pre-preparatory techniques		
2.	2.		
	ldentify the differences between various cooking methods		
3.			

Sr. No	References
1.	Raina, U et al (2015) Fourth Edition, Basic Food Preparation- A Complete Manual, Orient Longman Publication
2.	Thangham. P,(2004)Vol-1 and 2, Modern Cookery for teaching and the trade, Orient Longman Publication

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Bachelor of Science - Home Science (Family Resource Management) Semester (I)

Course Code	UH01MIFRM01	Title of the	Theory – Hotel & Tourism
		Course	
Total Credits of	02	Hours per	02
the Course		Week	

Course	1. To know various concepts in Hotel Management.		
Objectives:	2. To comprehend the purpose and services in hotels.		
	3. To familiarize the students with the perception of tourism.		
	4. To acquaint the students with the hospitality industry and tourism		
	scenario.		

Cours	se Content	
Unit	Description	Weightage*(%)
1.	The Hotel Industry: (a) Overviewand Opportunities in the Hotel Industry (b) Classification of Hotels on the basis of: Star, Location, Size, Number of rooms, Type of Plans (c) Departments: Front Desk, Housekeeping, Food & Beverage, Engineering, Sales and marketing, Health/ sports/ recreation, Safety/ security.	50
2.	Hospitality and Tourism (a) Tourism: Definition and forms - Inbound and Outbound (b) Interdependence of Hospitality Management and Tourism (c) Future Tourism & Hospitality Scenario (Global and Indian)	50

Teaching-	Lecture, Power -point Presentations, ICT enabled Teaching, Individual /
Assignments,	group project, Group discussion, Guest speaker, Quizzes
Learning	Methodology,blackboard and chalk.

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Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weightage	
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%	
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%	
3.	University Examination	70%	

Course Outcomes:			
Having c	Having completed this course, the learner will be able to		
1.	Appreciate the significance of hotel industry and kind of services offered.		
2.	Critically analyse and understand the state of hospitality and tourism at different levels.		
3.	Prepare them to work in the hotel industry.		

Suggest	Suggested References:		
Sr.No.	References		
1.	Chakravarti, B.K., (2011). <i>Hotel and Hospitality Management</i> . New Delhi: Aph Publishing Corporation.		
2.	Chakravarti, B.K., (2009). Hotel Management Theory. New Delhi: Aph Publishing Corporation.		
3.	Chakravarti, B.K., (2014). Technical Guide to Hotel Operation. New Delhi: Cbs Publishers & Distributors Pvt.Ltd.		
4.	Dharmarajan.S. And R. Seth, Tourism in India-Trends and Issues, HarAnand Publications Pvt. Ltd. New Delhi, First edition.		
5.	Sharma. R.B., World Tourism in 21st Century, Alfa Publications, New Delhi, Firstedition.		

On-line resources to be used if available as reference material

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On-line Resources

https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=Cdnwi2LUCCLzrJZ76d/o1A==

P-01 Tourism and Hospitality: concept, component, trends & status (M 11)

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Bachelor of Science - Home Science (Family Resource Management) Semester (I)

Course Code	UH01MIFRM02	Title of the Course	Practical– Hotel & Tourism
Total Credits of the Course	02	Hours per Week	04

Course	1. To acquaint the students bycategories of hotels.
Objectives	2. To know various chains of hotels.
J	3. To learn proficient skills for the hotel industry.

Course	Course Content			
Unit	Description	Weightage*		
1.	Understand the relation between hotel and tourism industry.	10		
2	(a) Classification of the hotels.(b) Identification of Hotel Chains in India.	10		
3.	Understanding the function of various departments in hotel.	10		
4.	(a) Skills required for the hotel personnel.(a) Demonstration of types of tables setting.	20		
5.	Learning bed making in a guest room.	10		
6.	Basic etiquettes in hotel industry	10		
7.	List tourist places of different states and specify their art and culture.	20		
8	Market survey of various travel agencies.	10		

Teaching-	Practical	Implementation,	Scrapbook,	Demonstration,	Blended	Learning,
Learning						

Methodology	Workshops, DIY activities.

Evaluation	n Pattern	
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Cours	Course Outcomes: Having completed this course, the learner will be able to		
1.	. Prepare them to work in the hospitality industry.		
2.	Recognize the importance of guest service quality, server-guest relationships, and ethics of job in hospitality.		
3.	Understand the role of tourism and hospitality as an industry.		

Sugges	Suggested References:						
Sr. No.	References						
1.	Chakravarti, B.K., (2011). Hotel and Hospitality Management. New Delhi: Aph Publishing Corporation.						
2.	Chakravarti, B.K., (2009). Hotel Management Theory. New Delhi: Aph Publishing Corporation.						
3.	Chakravarti, B.K., (2014). Technical Guide to Hotel Operation. New Delhi: Cbs Publishers & Distributors Pvt.Ltd.						
4.	Dharmarajan.S. And R. Seth, Tourism in India-Trends and Issues, HarAnand Publications Pvt. Ltd. New Delhi, First edition.						
5.	Sharma. R.B., World Tourism in 21st Century, Alfa Publications, New Delhi, First edition.						



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Bachelor of Science - Home Science (B.Sc.- H.Sc.) (Human Development) Semester (I)

Course Code	UH01MIHUD01	Title of the	Introduction to Human
		Course	Development
Total Credits of	02	Hours per	02
the Course		Week	

Course	1. To develop an understanding about the need and importance of
Objectives	studying human growth and development across life span
	2. To learn about the characteristics, needs and developmental tasks
	of different stages in the human life cycle.

Course	Course Content								
Unit	Description		Weightage*(%)						
1.	Overview o	50							
	i. W								
	ii. N	eed & Scope of studying human development							
	iii. H	eredity and Environent							
	iv. M	leaning and definition of growth and development							
	v. Pı	rinciples of development							
	vi. Fa								
2.	Stages of L	50							
	i. Prer	natal							
	ii. Infa	ncy							
	iii. Earl	y Childhood							
	iv. Late								
	v. Ado	plescence							
	vi. Adu								
	vii. Old	Age							

Teaching-	Lecture method ,Active learning methodology , Group discussions Method								
Assignments,	Power Point Presentation, Audio Visual methods, Games, Semi								
Learning									

Evaluation Pattern							
Sr. No.	Details of the Evaluation Weightage						
1.	Internal Written Examination (As per CBCS R.6.8.3	5)	15%				





2.	Internal Continuous Assessment in the form of Quizzes,	15%						
	Seminars, Assignments, Attendance (As per CBCS R.6.8.3)							
3.	University Examination	70%						

Co	Course Outcomes:						
Ha	Having completed this course, the learner will be able to						
1.	The student will be able to develop an understanding about the discipline of Human						
	Development.						
2.	The student will acquire a detailed understanding of developmental milestones of						
	Human development.						
3.	The students will understand the characteristics, needs and significance of stages in the						
	human life cycle.						
4.	The student will acquire a detailed understanding of the broad perspectives of Human						
	Development						





Sugges	ted References:				
Sr.	References				
No.					
1.	Berk, L.E. (2005). Child development (5th ed.). New Delhi: Prentice Hall				
2.	Berk, L. (2013). Child development. 9th ed. Boston: Pearson. Chapter 3				
3.	Bhangaokar, R.,&Kapadia, S. (in press). Human Development Research in India:				
	A historical overview. New Delhi: In G. Misra (Ed.), Hundred years of				
	Psychology in India.				
4.	Feldman, R., &Babu, N. (2009). Discovering the life span. New Delhi: Pearson.				
5.	Kakar, S. (1978). The Inner World: A Psycho-Analytic Study of Childhood and				
	Society in India.				
6.	Kapadia, S. (2011). Psychology and human development in India. Country paper.				
	International Society for the Study of Behavioural Development Bulletin Number				
	2, Serial No. 60, pp.37-42.				
7.	Keenan, T., Evans, S., & Crowley, K. (2016). An introduction to child				
	development. Sage.				
8.	8 · · · · · · · · · · · · · · · · · · ·				
	NewYork: Worth Publishers.				
9.	Santrock, J. W. (2011). Life-span development. New York: McGraw-Hill. Chapter				
	2, pg 52-78, Chapter 3, pg 79-109.				
10.	Santrock, J. W. (2009). A topical approach to life-span development (custom ed.).				
11.	Singh, A. (2015). Foundations of Human Development. New Delhi: Tata				
	McGraw- Hill. Chapter 2, pg 25-40, Chapter 3.				
12.	Singh, A. (2015). Foundations of Human Development: A life span approach. ND:				
	Orient Black Swan.				
13.	Walsh, B. A., DeFlorio, L., Burnham, M. M., & Weiser, D. A.				
	(2017). Introduction to human development and family studies. Psychology Press.				

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Course Code	UH01MIHUD02	Title of the	Practical –Introduction to Human		
		Course	Development		
Total Credits of	02	Hours per	4		
the Course		Week			

Course	1.	То	acquaint	the	students	about	growth	monitoring	
Objectives	&anthropometric measurements of a child.								
2. To introduction and application of the basic tools of research									
	thefield of Human Development to the students.								

Course	Course Content			
Unit	Description	Weightage*(%)		
1.	Preparation of an album on developmental milestones of	10		
2.	Growth monitoring, Plotting growth monitoring chart and interpretation.	10		
3.	Anthropometric measurements of a child: Ht. Wt., circumferences etc. (by the use of Salter Scale and MUAC strip).	10		
4.	Observation of individuals of different stages of life with the help of checklist: Neonate/ Infancy/ Early childhood/ Late childhood/ Adolescence/ Young adulthood/ Middle age/ Late adulthood.	20		
5.	Prepare a Questionnaire on different stages: Neonate/ Infancy/ Early childhood/ Late childhood/ Adolescence/ Young adulthood/ Middle age/ Late adulthood.	10		
6.	The major tools of research in child study/ the field of human development: Case study, Interview, Questionnaire.	10		
7.	Visit to an Anganwadi, ECCE centre/old age home/maternity ward and antenatal clinics.	10		
8.	Carry out case studies of school going children	10		
9.	Interviews of adolescent girls and boys to understand their life style and behaviour based on gender and socio-economic status.	10		

Teaching-	Practical, Field visits, Interview method
Assignments,	
Learning	





Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weightage	
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%	
2.	Internal Continuous Assessment in the form of Quizzes,	15%	
	Seminars, Assignments, Attendance (As per CBCS R.6.8.3)		
3.	University Examination	70%	

Cor	Course Outcomes:			
Ha	ving completed this course, the learner will be able to			
1.	The student will be able to develop an understanding about the discipline of Human			
	Development.			
2.	The student will acquire a detailed understanding of developmental milestones of			
	Human development.			
3.	The students will understand the characteristics, needs and significance of stages in the			
	human life cycle.			
4.	The student will acquire a detailed understanding of the broad perspectives of Human			
	Development			





Sugge	Suggested References:		
Sr. No.	References		
1.	Berk, L.E. (2005). Child development (5th ed.). New Delhi: Prentice Hall		
2.	Berk, L. (2013). Child development. 9th ed. Boston: Pearson. Chapter 3		
3.	Bhangaokar, R.,&Kapadia, S. (in press). <i>Human Development Research in India: A historical overview</i> . In G. Misra (Ed.), Hundred years of Psychology in India. New Delhi: Springer.		
4.	Feldman, R., &Babu, N. (2009). Discovering the life span. New Delhi: Pearson		
5.	Kakar, S. (1998). <i>The inner world. Psychoanalytic study of childhood and society in India</i> . Delhi: Oxford University Press.		
6.	Kapadia, S. (2011). <i>Psychology and human development in India</i> . Country paper. International Society for the Study of Behavioural Development Bulletin Number 2, Serial No. 60, pp.37-42.		
7.	Keenan, T., Evans, S., & Crowley, K. (2016). An introduction to child development. Sage.		
8.	Lightfoot, C., Cole, M., & Cole, S. (2012). <i>The development of children</i> (7thed.). NewYork: Worth Publishers.		
9.	Santrock, J. W. (2011). <i>Life-span development</i> . New York: McGraw-Hill. Chapter 2, pg 52-78, Chapter 3, pg 79-109.		
10.	Santrock, J. (2017). A topical approach to life span development (9th ed.). New NY.:Mcgraw-Hill Higher Education.		
11.	Singh, A. (Ed.) 2015. <i>Foundations of Human Development</i> . New Delhi: Tata McGraw-Hill. Chapter 2, pg 25-40, Chapter 3.		
12.	Singh, A. (2015). Foundations of Human Development: A life span approach. ND: Orient Black Swan.		

On-line resources to be used if available as reference material
On-line Resources
https://www.sulross.edu/sites/default/files/sites/default/files/users/docs/education/counseling-
hgd_7.pdf
https://www.who.int/childgrowth/publications/monitoring/en/





Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2023-2024

Bachelor of Science - Home Science (Textiles and Clothing) Semester (I)

Course Code	UH01MITCL01	Title of the Course	Theory- Surface Ornamentation
Total Credits of the Course	02	Hours per Week	02

Course Objectives:

Cours	Course Content		
Unit	Description	Weightage*	
1.	Surface design in Textiles/fabrics- Meaning, Importance and uses a. Printing b. Painting c. Appliqué work d. Basic stitches	50	
2.	Surface design in apparels a. Accessories b. Hand and machine Embroidery c. Ruffles d. Braiding e. Ribbon and Laces f. Buttons	50	

Teaching- Learning Methodology	Blackboard and smart boards, power point presentation, through teaching aids as charts, figure, discussion and analysis of actual garments.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%





Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2023-2024

	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Cou	Course Outcomes: Having completed this course, the learnerwill be able to		
1.	Understand and analyse basics of garment design.		
2.	Acquire skills in appropriate selection of readymade garments.		
3.	Select wisely clothes for family		

Sugges	ted References:
Sr. No.	References
1.	Chattopadhyay Kamaladevi (1975): Handicrafts of India, New Delhi, Indian Council of Cultural Relations.
2.	Gostelow Mary (1978) : Embroidery
3	Donger Kery, S.(1951): The Romance of Indian Embroidery, Bombay, Thacker Company Ltd.
4.	Pandit Savitri (1975): Indian Embroidery Its Variginating Charm, Baroda, Faculty of Home Science.
5.	Neelima (2009). Fashion & textile design. New Delhi: Sonali Publications Ltd.
6.	Carr, H. &Pomery J.(1992).Fashion Design & Product Development. New Jersey: Blackwell Scientific Publication
7.	Tie- Dyed textiles of India, Traditions & Trade (2000); Murphy V & Gill; Abhishek Publications, Chandigarh.
8.	Modern Technology of Textiles Dyes & Pigments (1999); Panda M.; NIIIR, New Delhi.



Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2023-2024

Bachelor of Science - Home Science (Textiles and Clothing) Semester (I)

Course Code	UH01MITCL02	Title of the Course	Practical –Surface Ornamentation
Total Credits of the Course	02	Hours per Week	04

Course Objectives:	 Understand, identify and acquire skills in basics of surface designing of fabric and apparels Understand and analyse the garment components.
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Cours	e Content	
Unit	Description	Weightage*
1.	Surface design features- a) Preparation of samples of Basic embroidery stitches Hand stitches-stem stitch, chain stitch, French knot stitch, laisy daisy stitch, satin stitch b) Preparation of samples using printing techniques- Block printing, stencil printing c) Preparation of samples using hand printing technique	50
2.	 (a) Collection of textile components, its application & use- (a) Buttons, stud fastenings, eyelets, ribbon, lace, braid, buckle, chain, safety pins, rivets, toggles, zip (b) Designing and preparing a household article/ garment using any one of the above methods. 	50

Note:

i) Prepare a portfolio of the motifs, embroidered & printed fabric samples.

Teaching- Learning Methodology	Demonstration, Actual sample collection and discussion Survey Assignment
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Evalu	ation Pattern	
Sr. No.	Details of the Evaluation	Weightage





Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2023-2024

1.	Internal Practical Examination (As per CBCS R.6.8.3) 15%	
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Cou	urse Outcomes: Having completed this course, the learnerwill be able to
1.	Acquire skills in analysing the quality of construction and finishing of garments and its components

Sugge	sted References:
Sr. No.	References
1.	Sumathi. (2002). Elements of Fashion & Samp; Apparel Design. G.I. New Age International Ltd.
2.	Tate, S.L., & Design. New York: Harper and Row Publications.
3.	Chattopadhyay Kamaladevi (1975): Handicrafts of India, New Delhi, Indian Council of Cultural Relations.
4.	Gostelow Mary (1978) : Embroidery





SARDARPATELUNIVERSITY (UnderChoiceBasedCreditSystem) NEPSyllabusforBachelorofScience(HomeScience)(Wi theffect from: June-2023-2024)

Bachelor of Science - Home Science(BasicScience)Semester(I)

CourseCode	UH01IDBSC01	Titleofthe Course	BasicScience-I (Theory)
TotalCredits oftheCourse	02	HoursperWeek	02

CourseObj ectives: 1. Toimpartbasicinformationaboutthefundamentalsofchemistry. 2. Toprovideknowledgeregardingvarious acids,bases and salts. 3. Toexplaintheconceptsofcellstructureand reproduction inplants. 4. Toacquaintthestudentswithfundamentalsofheattransfer.

Cour	seContent		
Unit	t Description		
1.	 (a) FundamentalsofChemistry Scope,usefulnessandbranches ClassificationofmatterandLawsofchemicalcombination, Structureofatom,Bohr'sModelofatom,ElectronicConfiguratio n, Atomic number, Mass number, Valence shell,andValenceelectrons. ModernPeriodictable,Symbols,Radicals,ChemicalFormulas, ChemicalBondingandChemicalReactions Acid,Baseandsalts/pH:Acid(Definition,Propertiesandtypes), Base (Definition, Properties and types), pH-Definition,pHScale,Explanation,UsefulnessofpH,Indicator,Buff erSolution. V. Solution:TypesofSolution,MethodsforrepresentingConcentratio nofsolution,Molarity,Normality,Formality,Molality,Percentage W/W,W/V,V/V,MoleConcept. 	50	
	(b) Temperatureanditsmeasuresi. Calorimetricii. Changeofstatewithapplicationsiii. Heattransfer-modesandexamples.		

2.	BiologicalScience				
]	(a) Introduction:Definition,Salientfeatures,Importanceonthefrontier				
	s of science and technology, major branches and				
	briefhistoryofbiology.				
	(b) Plantandanimalcell				
	(c) Plantmetabolism: PhotosynthesisandRespiration				
	(d) Transportof materials in living systems: Diffusion,				
	Osmosis				
	(e) PlantMorphology				
	i.				
	Form,Structureandfunctionofvegetativeandreproductivepart				
	sofseed-bearingplants				
	ii Unisexualandbisexualflowers.				
	iii Pollination, fertilization and reproduction in plants.				

Teaching-	Lectures, Interactive sessions, ICT enabled teaching and
LearningMet	learningexperiences in terms of video lessons, Discussion, Project
hodology Work, Demonstrations, Practical guidance	

EvaluationPattern			
Sr. No.	DetailsoftheEvaluation	Weightage	
1.	InternalWrittenExamination(AsperCBCSR.6.8.3)	15%	
2.	InternalContinuousAssessmentintheformofQuizzes,Seminars,Assi gnments,Attendance(As perCBCSR.6.8.3)	15%	
3.	UniversityExamination	70%	

Cou	CourseOutcomes:Havingcompletedthis course,thelearnerwillbeableto			
1.	Revivetheirknowledgeand understandthebasicconcepts inscience.			
2.	Understand fundamental aspects of science and have a profound pillar for upcomingsyllabus.			

Sugge	stedReferences:
Sr. No.	References
1.	G.D.Tuli.,&B.S.Bahl.(1983). <i>IntermediateInorganicChemistry</i> . S. New Delhi: Ram Nagar, Chand& Company LTD.

2.	P.L.Soni.,&KatyalM.(2007). Textbook of Inorganic Chemistry. Sultan: Chand&Sons.
3.	DuttaA.C.(1980). <i>AclassbookofBotany</i> . JohnBrown, Calcutta-13:Oxforduniversitypress. Faraday House.
4.	SharmaV.K.(1990).BiologyclassXI.Daryaganj:Publishers23.
5.	MaheshwariP.Manoharlal(1996).BiologyPart1-7.NewDelhi-110002: NCERT
6.	KennethW.(1975). Basic Physics. University of California, Irvins New Del hi: Oxford and IBHPublishing Co.

On-lineresourcestobeusedifavailableasreferencematerial				
On-lineResources				
http://www.edudel.nic.in/				



(UnderChoiceBasedCreditSystem) NEPSyllabusforBachelorofScience(HomeScience)(Witheffect from: June-2023-2024)

Bachelor of Science - Home Science(BasicScience)Semester(I)

CourseCode	UH01IDBSC02	Title of theCourse	Basic Science-I(Practical)
TotalCredits oftheCourse	02	HoursperWeek	04

1. TomakethemunderstandVolumetricandinorganicQualitativeanalysis.
2. Todemonstratepartsofmicroscopeandprepareslides.
3. Torecognizethevariouspartsoffloweringplants.

CourseContent				
Unit	Description	Weightage*		
1.	Volumetric analysis of strong acid [HCl] and weak acids [oxalicacid/Aceticacid] against strongbase[NaOH],andstrongbaseagainstweakacid.	10		
2.	Qualitative analysis of water-soluble Inorganic CompoundscontainingonePositive and oneNegativeRadicals.	10		
	2 (a) Positive radicals- Ag ⁺¹ , Pb ⁺² , Cu ⁺² , Bi ⁺³ , Al ⁺³ &Negativeradicals-SO ₄ -,NO ₃ -1,Cl ⁻	10		
	2(b)Positiveradicals-SO ₄ ,NO ₃ ,Cl 2(b)Positiveradicals- Fe ⁺³ , Fe ⁺² , Mn ⁺² ,Zn ⁺² , Ni ⁺² , CO ⁺² , &Negativeradicals-SO ₄ ,NO ₃ -1,Cl 2(c)Positive radicals-Ca ⁺² ,Ba ⁺² , Mg ⁺² ,NH ₄ +,K ⁺ , &Negativeradicals -CrO ₄ -2,Cr ₂ O ₇ -2,Cl,Br,I,OH	10		
3.	Tostudytheparts of Compound Microscopeandits Uses.	10		
4.	Topreparetemporaryslidesofonion peelsforstudyingthecell Structure.	10		
5.	Topreparetemporaryslides ofRhoeo peelforstudyingthestomataandchloroplast.	05		
6.	Tostudyatypical floweringplantbody.	05		
7.	TostudyUnisexualandBisexualflowersthrough dissectionmethod(Dhatura,Hibiscus, Sunflower, Cucurbits)	10		
8.	Plantphysiology:(PhotosynthesisandRespiration)	15		

9.	To studyofOsmosis and Diffusion.	05	
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Teaching- LearningMet hodology Practical, ICTenabledteachingandlearningexperiencesintermsofvideolessonsDiscion, BywayofDemonstrations.		lessonsDiscuss		
Evalı	EvaluationPattern			
Sr. No.	Detailsofth	neEvaluation	Weightage	
1.	InternalWritten/PracticalExamination(AsperCBCSR.6.8.3) 15%		15%	
2.	InternalContinuousAssessmentintheformofPractical,Viva- voce,Attendance (As per CBCSR.6.8.3)		15%	
3.	UniversityExamination 70%			

Cou	urseOutcomes:Havingcompletedthis course,thelearnerwillbeableto
1.	Applyscientificmethodologyand demonstrate theabilityto drawconclusions based onobservationand analysis.
2.	Recognizeandapplyconcepts and theories of basic biological sciences.
3.	Demonstrateconnections withother subjectareas.

Sugge	SuggestedReferences:		
Sr. No.	References		
1.	Mendham, J., R, Denney., J Barnes., K, Thomas.Vogel'stextbook of QuantitativeChemicalAnalysis. (6 th ed.).		
2.	AnAdvancedcourseinPracticalChemistry,Ghoshal,Mahapatra,Nad.		
3	Dutta A.C., John Brown, (1980) <i>A class book of Botany</i> , Calcutta: oxford universitypress.FaradayHouse.		
4	SharmaV.K.(1990) <i>BiologyclassXI</i> ,NewDelhi:23, DaryaganjPublishers.		



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

		Course Content	
		Description	Weightage
1	A	 Speaking: Self Introduction Describe a person, place or situation Greeting, Asking and giving information, requesting, asking for permission Everyday conversations. 	50%
	В	 Listening Simple Conversations based on familiar situations Specific information Announcements Identify key words and phrases in short dialogues Comprehend simple spoken information in familiar contexts. 	
	C	 Reading: Read and understand basic vocabulary and sentences. Identify familiar words and phrases in short texts. Comprehend simple information from signs, labels, and menus. Read and understand simple passages 	
2	A	 Writing Write answers to questions from Passages Write leave application, apology and request letters Write a Paragraph on the given Topic 	50%
	В	Grammar & Vocabulary 1. Articles 2. Make correct use of Concord or Subject-Verb Agreement 3. Form words properly using prefixes/ suffixes i Prefixes / Suffixes ii Prepositions of Place, Time and Direction 4. Questions Tags	

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

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

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



Vallabh Vidyanagar Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.11)
Syllabus with effect from the Academic Year 2023-2024

Bachelor of Science - Home Science (Foods & Nutrition) Semester (I)

Course Code SEC	UH01SECFN01	Title of the Course	Theory–Child Health, Safety and Nutrition
Total Credits of the Course	02	Hours per Week	02

Course	1. To understand the concepts of Growth, Development and Health.
Objectives	2. To provide information about various parameters used to assess
	growth, health & nutrition status.
	3. To provide information about Child Safety that influence physical
	growth & health.
	4. To gain an insight the health & nutritional needs of child.

Course	e Conter	nt	
Unit	Description		Weightage*(%)
1.	(a)Growth and Development of Child		50
	i.	Definition and Dimension of health and factors influencing health.	
	ii.	Assessment of child's health status.	
	iii.	Health and Care	
	iv.	Programmes for promoting child's health (ICDS) Immunization.	
	v. vi.	Infant Feeding Practices and Concerns	
	vii.	Issues of Feeding Toddlers and Young Children	
	viii.	Care and management of malnourished child	
	ix.	Health and Safety Education	
	х.	Injuries and Acute Illness	
2.	(a) N	Nutrition and Young Children	50
	i.	Meal Planning	
	ii.	Food Safety	
	iii.	Nutrition EducationCare and Nutrition of Children	
	iv.	Maternal health care.	
	v.	Lactation: - Importance of breastfeed, complimentary	
		food.	
	vi.	Nutritional deficiency diseases.	
	vii.	Nutritional Guidelines	
	viii.	Basic Concepts of Nutrition	

Teaching-	Lecture method, Active learning methodology, Group discussions M				Method,		
Assignments,	Power	Point	Presentation, Audio	Visual	methods,	Games,	Seminar,
Learning	Assignment, Quiz						





Evaluation Pattern				
Sr. No.	Details of the Evaluation Weightage			
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%		
2.	Internal Continuous Assessment in the form of Quizzes,	15%		
	Seminars, Assignments, Attendance (As per CBCS R.6.8.3)			
3.	University Examination	70%		

Co	ourse Outcomes:		
Ha	Having completed this course, the learner will be able to		
1.	Students will gain knowledge of dimension of health and nutritional needs.		
2.	Students will understand about physical growth and health and various factors		
	influence it.		





Sugge	ested References:
Sr.	References
No.	
1.	Berk, L.E. (2005). <i>Child development</i> (5th ed.). New Delhi: Prentice Hall
2.	Berk, L. (2013). Child development. 9th ed. Boston: Pearson. Chapter 3
3.	Bhangaokar, R.,&Kapadia, S. (in press). Human Development Research in India:
	A historical overview. New Delhi: In G. Misra (Ed.), Hundred years of
	Psychology in India.
4.	Feldman, R., &Babu, N. (2009). Discovering the life span. New Delhi: Pearson.
5.	Kakar, S. (1978). The Inner World: A Psycho-Analytic Study of Childhood and
	Society in India.
6.	Kapadia, S. (2011). Psychology and human development in India. Country paper.
	International Society for the Study of Behavioural Development Bulletin Number
	2, Serial No. 60, pp.37-42.
7.	Keenan, T., Evans, S., & Crowley, K. (2016). An introduction to child
	development. Sage.
8.	Lightfoot, C., Cole, M., & Cole, S. (2012). The development of children (7thed.).
	NewYork: Worth Publishers.
9.	Santrock, J. W. (2011). Life-span development. New York: McGraw-Hill. Chapter
	2, pg 52-78, Chapter 3, pg 79-109.
10.	Santrock, J. W. (2009). A topical approach to life-span development (custom ed.).
11.	Singh, A. (2015). Foundations of Human Development. New Delhi: Tata
	McGraw- Hill. Chapter 2, pg 25-40, Chapter 3.
12.	Singh, A. (2015). Foundations of Human Development: A life span approach. ND:
	Orient Black Swan.
13.	Walsh, B. A., DeFlorio, L., Burnham, M. M., & Weiser, D. A.
	(2017). Introduction to human development and family studies. Psychology Press.

On-lii	ne resources to be used if available as reference material
On-lin	ne Resources
Relev	ant entries on Wikipedia and Encyclopaedia Britannica



STATE OF THE STATE

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.11) Syllabus with effect from the Academic Year 2023-2024

Multidisciplinary Course on Introduction to Indian Knowledge Systems

Course Code	UA01IKSFN01	Title of the Course	Introduction to Indian Knowledge Systems
Total Credits of the Course	2	Total Hours	30

Course Objectives:

	Course Content				
Unit	nit Description				
1	 Spritual Bharat and Introduction to IKS Bhartiya Concept of Spirituality: Gyaan Marg, Bhakti Marg, Karm marg, Yog Marg Bhartiya Spiritual Thinking Leading to Unity Bhartiya Philosophy of Life Derived from Shashtras and its Implications for Bhartiy Life Style Introduction to IKS and Its Importance Introduction of Various Indian Knowledge Systems 	50 %			
2	 Contribution of IKS to the World Bhartiya Contribution in Mathematics and Astronomy Bhartiya Wisdom related to Life Science: Physics, Chemistry, Botany Bhartiy Science of Architecture with reference to Lothal, Mohan Jo Daro, Dholavira, Temple Architecture 	50 %			





Vallabh Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.11) Syllabus with effect from the Academic Year 2023-2024

• Ayurveda: Concept, Branches, Books and Pioneers

•	Bhartiya Literatur	and Bhartiy Tl	heory of Aesthetics	and Rasa
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Teaching-	Lecture-cum-discussion, Group Discussion, Presentations, Seminars,
Learning	tutorials, Research Exercises
Methodology	

Evalu	Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weightage		
1.	Internal Written / Practical Examination Internal Continuous Assessment in the form of Practical, Vivavoce, Quizzes, Seminars, Assignments, Attendance	30%		
2.	University Examination	70%		

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



SARDAR PATEL UNIVERSITY Vallabh Vidvanagar, Gujarat



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Syllabus with effect from the Academic Year 2023-2024

Suggested References:

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