COURSES HAVING FOCUS ON EMPLOYABILITY/ ENTREPRENEURSHIP/ SKILL DEVELOPMENT

Skill

Emplopability

Enterpreneurship



Subhash Chandra Bose Shixan Sankul, Chh-5, Children's University, Sector 20, Gandhinagar, Gujarat





$Children's\ University-Gandhinagar$

Academic Year 2022-23

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्सत्यम्	कतम् बृहत् ।	1)					
	CCIMITE 101 a Congress the course of Table	Credit	4				
	CCIMTT-101 : General theory of Tabla	Hours	64				
Objec	tives :1) Impart knowledge about the basic framework of TablaVadya and Vaadan		101				
	2) Introduce students to the various percussion instruments of India.						
3) Introduction to the Notation System (how to read, write and understand)							
	4) Introduce students to the different terminologies of Tabla.						
Unit-	Introduction to the basic terminologies of Tabla	16 hours	S				
	• D C C1 C11						
	❖ Defination of the following terms:						
	Taal, Laya, Matra, Vibhag, Sam, Tali, Khali, Kaida, Palta,						
	Avartan, Tukda.						
Unit-2	2 Knowledge about the mechanism of Tabla&Baya	16 hours	<u> </u>				
	ishowieuge about the meenamism of Tablacebaya	10 110 411	S				
	❖ Detail study about the various parts of Tabla and Baya and its						
	usability.						
	·						
Unit-	Introduction to the Pt.Bhatkhande Notation System	16 hours	S				
	* Basic information about the notation system						
	System of writing different taals in single,dugun, tigun and						
	chaugun						
Unit-	Introduction to the various Indian Percussion Insruments	16 hours	S				
	❖ Brief notes on the following instruments :						
	Pakhawaj, Dholak, Naal, Khol.						
	 Usability of the following Perscussion instruments 						
	, ,						
REFE	CRENCES						
1.	, , , , , , , , , , , , , , , , , , ,						
2.	TaalKosh by Pt. GirishchandraShrivastav						
3.	7 6 7 7						
	e Co-ordinator: Dr. ChiragSolanki ,	noge-					
	ant Professor, Department of Vidyaniketan, Children's University - Gandhile: +91 9558268585	magar.					
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$Children's\ University-Gandhinagar$

Academic Year 2022-23

The state of the s					
	Certificate Course in Instrument Music (Tabla/Harmonium/Keyb	1			
	CCIMTP-102 : Practical Study of Tabla- I	Credit	4		
		Hours	128		
Objectiv	es:1) Impart knowledge about Taal Dadra, Keherva and Teentaal.				
	2)Understanding of various compositions of Tabla and its padhant (system		tion)		
	3) Introduce students to the differentGharanas and Eminent artists of Tabla				
Unit-1	Introduction to Dadra and Keherva	32hours	S		
	❖ Introduction to basic syllables of dadra and keherva.				
	Recitation of syllables in thah, dugun and chaugun				
	❖ Variations in both the taals and its usability.				
	❖ Simple Laggis in both the Taals				
Unit-2	Introduction to Teentaal	32hours	S		
	❖ Introduction to basic syllables of Teentaal.				
	Recitation of syllables in thah, dugun and chaugun				
	❖ Basic kayda in teentaalwith five paltas and tihai.				
	 Tihais in teental from different matras. 				
Unit-3	Introduction to various compositions of Tabla with examples	32hours	S		
	❖ Mohra				
	* Mukhda				
	* Tukda				
	• Chakradhaar				
	* Chakraunaan				
Unit-4	Introduction to basic gharanas of Tabla and its eminent artists	32hours	S		
	❖ Introduction to the word Gharana				
	 Introduction to Delhi and AjradaGharana of Tabla 				
	❖ Lifesketches of 1) Ut.Nathu Khan 2) Ut.Habibuddin Khan				
DEFEDI	ENCE BOOKS				
	aalParichay Part 1 to 3 by Pt. GirishchandraShrivastav.				
	Taalkosh by Pt. GirishchandraShrivastav				
	BharatiyaSangeetVadya by Dr. Lalmani Mishra				
	FablaaurPakhawajkeGharaneevumParamparaye by Dr. AbanMistry				
	o-ordinator : Dr. ChiragSolanki ,				
	o-ordinator: Dr. Chiragsolanki , Professor, Department of Vidyaniketan, Children's University - Gandhinagar.				
	+91 9558268585				
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$Children's\ University-Gandhinagar$

Academic Year 2022-23

	Certificate Course in Instrument Music(Tabla/Harmonium/Keybo	ard)				
	CCIMTP - 103: Practical Study of Tabla – II	Credits	4			
		Hours	128			
Objec	tives:1) Impart knowledge about TaalRoopak and Jhaptaal.					
	2) Develop skills of Accompaniment with different genres of Music.					
	3) Develop sense of playing composition in systematic manner in Roopak a					
Unit-1	Introduction to TaalRoopak and Jhaptaal	32 hour	S			
	• Into desting to beside called the of Descards and Theoretical					
	❖ Introduction to basic syllables of Roopak and Jhaptaal					
	Recitation of syllables in thah, dugun and chaugun					
	 Variations in both the taals and its usability. Tihai in both the Taal from different matras 					
	Tinal in both the Taal from different matras					
Unit-2	Detail study in TaalRoopak	32 hour	rs			
	• One Kayda in Taal Ropak with five paltas and tihai					
	Simple mukhda and mohra in taalRoopak					
	❖ Simple Tukda in TaalRoopak					
	T T T T T T T T T T T T T T T T T T T					
Unit-3		32 hour	rs			
	❖ One Kayda in TaalJhaptaal with five paltas and tihai					
	Simple mukhda and mohra in taalJhaptaal					
	❖ Simple Tukda in TaalJhaptaal					
Unit-4	Introduction to Accompaniment with different forms of Music	32 hour	rs			
	❖ Accompaniment with Classical Vocal Music					
	❖ Accompaniment with Light Vocal Music					
	❖ Accompaniment with Instrumental Music					
	❖ Accompaniment with Dance					
REFE	RENCES					
1.	TaalParichay Part 1to 4 by Pt. GirishchandraShrivastav.					
2.	Taalkosh by Pt. GirishchandraShrivastav					
3.	. BharatiyaSangeetVadya by					
	e Co-ordinator : Dr. ChiragSolanki ,					
	ant Professor, Department of Vidyaniketan, Children's University - Gandhinagar. e: +91 9558268585					
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Children's University, Gandhinagar Department of Vidyaniketan Certificate Course Subject: - VOCAL MUSIC

Course Title: Certificate Course in vocal music	
Course Code: CCVM	Credits: 12
Department : Vidyaniketan	Faculty: Music
Admission Eligibility: Std. 5 th Pass	Co-requirement:
	Course Code : : CCVM
Hours of learning: 272 (Practical – 160 & Theory – 112 Hou	ars)
Student quota: 35	
Course Type: Certificate Course	
Main/Elective/ Objective / Foundation	

2. Curriculum overview and objectives:

Curriculum overview:

The course is specifically designed to inculcate an interest in music in children and students, which can contribute to the holistic development of a new generation of Indians. The course mainly focuses on vocal skills to enable learners to acquire skills that enable him / her to work from an artistic perspective in the field of education from pre-primary education to higher education. This course emphasizes the transformation of ancient Indian art and modern art.

This course is designed to keep our culture and heritage alive in the coming time and to innovate in various fields of art.

Curriculum Objectives:

- The student connects with the art of music through the efforts of tone and rhythm instrumentation from his childhood.
- The student participates in his / her co-curricular activities very easily and quickly understands and absorbs various subjects.
- In order to make sense of the statement that every child has a latent power, he has been cultivating vocal skills since his student days.
- Our Indian heritage recognizes and introduces a diverse culture, singing, art heritage and artists as well as takes pride in it and creates a noble value of protecting it.
- The student enjoys the company of music from his childhood to eternity and experiences eternal bliss in the place of the frustration felt by the students in today's time.

Unit	Topic	Content	Unit wise SLO	Hours
1	Understanding the words used in music	1.1 Music, Nad, Sound and Noise 1.2 Swar -Alankar, Saptak, rhythm, Taal, Matra, Sam, Tali, Khali, Taal Section, Frequency 1.3 Aaroh, Avroh, Pakad., Sthai, Stranza 1.4 Raag, Vadi-Samvadi, Anuvadi Vivadi, Alankar And Taan	Be aware of the importance of music and the different words used in music.	16
2	Understanding the Raag Gayki (Singing)	1.1 Sargam Song 1.2 Khyal Gayaki Chhota Khyal and Bada Khyal 1.3 Tarana	Familiarize yourself with the types of classical music and its specialties.	08
3	Understanding the types of folksong	3.1 Terminology of Folksong 3.2 Bhajan, Kirtan, Dhol & Lullabies Lagnageet & Marsiya	Will introduce the types of folk music and its features	08
4	Introduce of Musician and Instrument	 3.1 Introduction to musician and Biography 3.2 Introduction of Gujarat musicians 3.3 Musical instruments and its instrumentalists 	Develop an understanding of the instruments used in music. Will receive information about musicians	16
Total l	Hours			48

Unit	Topic	Content	Unit wise SLO	Hours
		2.1 notation pf Pandit Vishnu Narayan	The concept of Indian notation	
	Introduction to	Bharkhande	and method will be understood.	
1	notation	2.2 Indian Music Method		16
		2.3 Western Music Method		
		2.4 Teaching Swar in written form		
		1.1 Raag Bhupali	Introduce the features of ragas	
		1.2 Raag Yaman	and understand the script of	
2	Introduce of Raag	To teach the information of all the above ragas	Bandish.	08
		as well as to teach the captives of ragas in		
		written form		
		2.1 Taal Trital	The rhythm becomes stronger	
		2.2 Taal Dadra	and the understanding of	
	T . 1 CTD 1	2.3 Taal kaherva	rhythm and its script will	00
3	Introduce of Taal	2.4 Taal Ektal	develop.	08
		Teaching information of all the above locks		
		and teaching the locks in written form		
		4.1 A brief history of music	Cultivate an understanding of	
4	Essay	4.2 The relationship of Ras and rhythm	the divinity in Indian music.	16
	, <u>s</u>	4.3 Rule of song composition		
Total Hours				

Paper Code: - CCVMP - 103 Paper Name : - Swar & Taal Sadhna Credit - 3

Unit	Topic	Content	Unit wise SLO	Hours
1	Swar	 1.1 Singing with seven pure Swar to teach. 1.2 Teaching pure Swar in rhythmic Singing. 1.3 Taal Trital based on pure Swar Singing in Singal and Double rhythms to teach. 	Will learn to sing with seven pure Swar and The throat will open	16
2	Taal	2.1 Taal Trital 2.2 Taal Dadara 2.3 Taal Kaherava 2.4 Taal Ektaal To teach all the above Taals in Tali-Khali as well as in Singal and double rhythm	Understand rhythms experimentally and learn to sing in rhythm	32
3	Alankar	 4.1 Singing rhythmically Pure Swaras Alankars to teach. 4.2 To teach singing Pure Swaras Alankars in Singal & Doubble rhythm. 4.3 Creating Alankars and teaching singing 	Learn to read and write the Swar as well as develop a creative outlook in music	32
4	Geet	4.1 Prayer 4.2 Patriotic song 4.3 Geet 4.4 Folk Song	Introduce songs and learn to sing	16
Total l	Total Hours			

Unit	Topic	Content	Unit wise SLO	Hours
1	Singing of Raag Bhupalis Swra	1.1 Aaroh 1.2 Avaroh 1.3 Pakad 1.4 Swar Vistar	Will understand the singing of the raga	16
2	Singing of Bandish in Raag Bhupali	2.1 Swarmalika of Raag Bhupali2.2 Chhota Khyal of Raag Bhupali2.3 Introduce of Different Songs in Raag Bhupli	Bandish of Raag as well as learn to sing the songs sung in it	32
3	Singing of Raag Yaman	3.1 Aaroh 3.2 Avaroh 3.3 Pakad 3.4 Swar Vistar	Will understand the singing of the raga	16
4	Singing of Bandish in Raag Yaman	2.1 Swarmalika of Raag Yaman2.2 Chhota Khyal of Raag Yaman2.3 Introduce of Different Songs in Raag Yaman	Bandish of Raag as well as learn to sing the songs sung in it	32
Total Hours				96

Reference Books

Syllabus - Bruhad Gujarat Sangeet Samiti (Praveshika Purna) Sanpurna Visharad - Bruhad Gujarat Sangeet Samiti, Author - Dr. Sefali Shah Sangeet kanthya and Swarvadya Pathyapustak, Gujarat State Tax book Board - Std.9,10,11,12

Exam Marking Style:

Exam Writing					
Paper	Paper Name	Code	Internal Marks	External Marks	Total
1	Sangeet Pravesh	CCVMT - 101	20/50	20/50	40/100
2	Swar,Raag & Taal Parichay	CCVMT - 102	20/50	20/50	40/100
Exam P	ractical				
1	Swar & Taal Sadhana	CCVMP - 103	20/50	20/50	40/100
2	Raag Sadhana	CCVMP - 104	20/50	20/50	40/100
Grand	Grand Total 80/200 80/200 160/400				

Contact Hours & Credits:

Hours & Credits	CCVMP-101	CCVMP - 102	CCVMT -103	CCVMT - 104	TOTAL
Contact Hours	32	32	64	64	192
Contact Credits	2	2	2	2	8
Non- Contact Hours	16	16	32	32	96
Non- Contact Credits	1	1	1	1	4
Total Hours	48	48	96	96	288
Total Credits	3	3	3	3	12

	Master of Social work	Emplopability
Course code	Course (Paper) Title	
MSWCC101	Core-History, philosophy and Ideology of social work	
MSWCC102	Working with people	
MSWCC103	Communication skill	
MSWEC104	Women and child welfare	
	OR	
MSWEC104	Family social work	
MSWIC105	Interdisciplinary-Indian sociology for Indian social work	
	OR	
MSWIC105	Psychopathology	
MSWP-106	Field Work Practicum	
	Two Days in week Agency Visit	
	Report Writing-75 marks	
	viva-voce-75 marks	

Course code	Course (Paper) Title
MSWCC201	Social Work Research
MSWCC202	Rural Community &Panchayati Raj
MSWCC203	Human Resource Management
MSWEC204	Social Defense &Correctional Services OR
MSWEC204	Family Social Work
MSWIC205	Human Rights & Justice System
	Field work (Rural Area)-Two Days in a Weekviva- Voce= 75 MarksReport Evaluation=75 Marks
MSWIC205	Rural/Tribal Camp(Minimum 5 working Days) Viva- Voce= 25 Marks ReportEvaluation=25 Marks

Course code	Course (Paper) Title
MSWCC301	Human Growth &
	Development
MSWCC302	Urban Development
MSWCC303	Industrial Relation & Labour
	Welfare
MSWEC304	Politically Economy &
	Planning in India
	OR
MSWEC304	Management of Development
	& Welfare Services
MSWIC305	Corporate Social
	Responsibilities
	OR
MSWIC305	Disaster Management
MSWP306	Field work – Two Days in aweek
	(GO/NGO/Co-Op/Industry)
	Viva-Voce= 75Marks
	Report Evaluation=75 Marks

Course code	Course (Paper) Title
MSWCC401	Social work for differently able and deprived group
MSWCC402	Counseling practices
MSWCC403	Medical and Psychiatric Social Work
MSWEC404	Social Work Personnel Training & Development
	OR
MSWEC404	Management of NGO's
MSWP405	Block Placement(30 Working Days) Viva-Voce= 75 Marks Report Evaluation=75 Marks
	<u>Dissertation</u> Theory= 100Marks Viva-Voce =100Marks



M A Child Psychology

Skill Based Program with Effect From 2017 and from time to time $\,$

Sr.	Program name	Sem	Paper name &	Related to Skills/employment
No.			Code	
1.	M A Child	II	Research Project	Research
	Psychology		MAPSYEG 205A	
2.	M A Child	II	Counselling	Counselling/Employment
	Psychology		Psychology	
3.	M A Child	I & II	Research Methods in	Research
	Psychology		child Psychology	
4.	M A Child	I & II	Statistics in	Data Analysis
	Psychology		psychology	
5.	M A Child	III &	Psychological	Behavioral problem
	Psychology	IV	Testing and	
			Practical's	
6.	M A Child	IV	Dissertation	Research/ Behavioral problems
	Psychology			_

PGDSC-102 Guidance for Personality Development and Adjustment NSP

Objectives:

After going through this course, students will be able to:

- Understand the life span development of human and development as life long process.
- Know about various factors affecting growth and development in context of counseling.
- Understand about concept and characteristics of personality.
- Discuss and explain about the various approaches of personality development.
- Understand about human behavior specifically about adjusted behavior and mal-adjusted behavior.
- Understand about various factors related to human development and personality development.

Unit	Guidance for Human Development and Adjustment	
1	Personality: Concept and factors	DVV
1.1	Concept of Personality, Types of Personality	
1.2	Growth and Development of Personality	
1.3	Factor affecting Personality Development	
1.4	Principles for Personality Development	
2	Theories of Personality Development	ANP
2.1	Psychoanalytic Theory of Personality Development	
2.2	Eric Erikson Theory of Personality Development	
2.3	Allport's Theory of Personality Development	
2.4	Meslow's Theory of Personality Development	
3	Adjustment and Maladjustment	DR
3.1	Meaning of Adjustment and Maladjustment	
3.2	Characteristics of Adjustment	
3.3	Barriers in Adjustment and role of teacher/counselor	
3.4	Principle of Adjustment	
4	Defense Mechanism and Role of Motivation	MBJ
4.1	Defense Mechanism: Meaning and Classification	
4.2	Projection, Compensation, Rationalization, Identification, Regression	
4.3	Motivation: Meaning, Concept and Nature	
4.4	Maslow's Self Actualization Theory	

Practicum:-

- 1. Present seminar on given topic related to life span development
- 2. Prepare exhibition in group of five on various aspect of human development and remedies for the proper development.
- 3. Prepare a report on two well known personalities with distinguished personality type and its impact on success in life/profession

- 4. Write an essay on importance of adjustment in life with special reference to student life
- 5. Prepare article on various defense mechanism and remedies thereof

References

- Adler A. (1927), The Practice and Theory of Individual Pschology, Harkotra Brass Jovanivak, New York
- Allport, G. (1961), Pattern and Growth in Personality, HotwrinheartWiston, Newyork
- Beck, L. E. (2003), Child Delegation Group (Sixth Edition). Pritas-Hall of India, New Delhi.
- Fay Dumannay, R. s. (2000), Day Values Across the Life Pen (Financial Instruction) Princes Hall, You Jasir.
- Harlock, E. B. (1980), Developmental Psychology: A Life Pan Approach (fifth edition).
 Tata McGraw-Hill Limited, New York, New Delhi.
- Sa Talk, J. D.U. (2001), Child development (Ninth Edition). McGraw-Hill, York

ચિલ્ડ્રન્સ યુનિવર્સિટી, ગાંધીનગર

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સર્ટિફિકેટ કોર્સ



डोर्स ओन डम्प्युटर डन्सेप्ट (CCC)

पर्ध: २०२१-२०२२

SKILL DEVELOPMENT CENTER

SCHOOL OF INDIC STUDIES CHILDREN'S UNIVERSITY GANDHINAGAR

પ્રકરણ ૧ : કમ્પ્યુટરનો પ્રાથમિક પરિચય ૧.૧ કમ્પ્પુટર ની વ્યાખ્યા ## ૧.૨ કમ્પ્પુટરની પેઢીઓ અને પ્રકાર * ૧.૩ કમ્પ્પુટરની લાક્ષણિકતા ****** ૧.૪ કમ્પ્પુટર ડિવાઇસ * ૧.૪.૧ સ્ટોરેજ ૧.૪.૨ ઇનપુટ ૧.૪.૩ આઉટપુટ ૧.૫ સોકટવેર અને તેના પ્રકાર ૧.૬ કમ્પ્પુટરના ઉપયોગો અને મર્યાદા ૧.૭ લેખિત અને પ્રાયોગિક સ્વાધ્યાય 뇌용2인 로: MS- Windows 7 **૨.૧ વિન્ડોઝ ૭ ઓપરેટીંગ સિસ્ટમ ૨.૨ ડેસ્કટોપનો પરિચય ૨.૨.૧** ટાસ્કબાર **૨.૨.૨ સ્ટાર્ટ** મેનુ ૨.૨.૩ ગેઝેટ ર.ર.૪ ટૂલબાર **૨.3** ડાયલોગ બોકસ **૨.૪ વિન્ડોઝ એસેસરીઝ** * ### ર.પ નોટિકિકેશન એરિયા ૨.૬ સિક્યુરીટી સેટિંગ્સ **૨.૭ સિક્યુરીટી સોફટવેર ૨.૮ લેખિત અને પ્રાયોગિક સ્વાધ્યાય** 뇌용2인 — 3 MS-Word 2010 3.૧ MS-Word નો પરિચય 3.૨ ડોક્યુમેન્ટની બનાવટ ### 3.3 ડોક્યુમેન્ટ ફોર્મેટિંગ 3.४ डोड्युमेन्ट प्रिन्टींग * 3.૫ લેખિત અને પ્રાચોગિક સ્વાધ્યાય **3** *

33 ૪.૧ MS-Excel પરિચય **3** ૪.૨ ડેટા ઇન્સર્ટ ૪.૩ કેટા ફોર્મેટિંગ **** **** ૪.૪ સ્પ્રેડશીટ સેવિંગ ૪.૫ રો, કોલમ અને સેલ ૪.૬ ફોર્મ્યુલા અને ફંકશન ૪.૭ ટેબલ બનાવવું અને ફોર્મેટ કરવું ૪.૮ સૉટીંગ અને કિલ્ટર ४.∈ प्रिं न्टींग ૪.૧૦ પિવોટ ટેબલ ૪.૧૧ ચાર્ટ અને ગ્રાફિકસ ૪.૧૨ લેખિત અને પ્રાયોગિક સ્વાધ્યાય 뇌용인 — 및 MS-Power Point 2010 * પ.૧ MS-Power Point નો પરિચય **५.२ प्रे**अन्टेशन जनापपुं ***** u. 3 प्रेअन्टेशन भेविंग **५.४ प्रे**अन्टेशन प्रिन्टींग ૫.૫ સ્લાઇડ ટ્રાન્ઝિશન ૫.૬ સ્લાઇડ સ્માર્ટઆર્ટ્ ૫.૭ સ્લાઇડ ચાર્ટનો ઉપયોગ ૫.૮ સ્લાઇડ એનિમેશન ૫.૯ સ્લાઇડ ઠાયપર લીંક ૫.૧૦ સ્લાઇડમાં ઇક્વેશન ૫.૧૧ સ્લાઇડ શો ૫.૧૨ લેખિત અને પ્રાયોગિક સ્વાધ્યાય

* પ્રકરણ – ૬ કમ્પ્યુટર નેટવર્કિંગ ## ## ૬.૧ કમ્પ્યુટર નેટવર્કનો પરિચય ૬.૨ કમ્પ્યુટર નેટવર્કના પ્રકાર અને ફાયદા ૬.૩ પ્રસારણના વિવિધ માધ્યમ **** **** ૬.૪ કમ્પ્યુટર નેટવર્કના ઉપકરણો ૬.૫ કમ્પ્યુટર નેટવર્ક ટોપોલોજી ક.ક નેટવર્ક મોડલ ૧.૭ લેખિત અને પ્રાયોગિક સ્વાધ્યાય પ્રકરણ – ૭ ઇન્ટરનેટ અને તેના ઉપયોગો ૭.૧ ઇન્ટરનેટ એટલે શું? ૭.૨ ઇન્ટરનેટના વિવિધ ઉપયોગ ૭.૩ ઈન્ટરનેટ એડ્રેસ અને ડોમેઇન ૭.૪ ઈન્ટરનેટ કનેક્શન માટેની પદ્ધતિઓ ૭.૫ બ્રાઉઝર અને તેના પ્રકાર ૭.૬ આઉટલુક ૭.૭ ઇ-મેઇલ એકાઉન્ટ બનાવવું ૭.૮ ઇ-મેઇલમાં અટેચમેન્ટ ૭.૯ VPN (વર્સુયલ પ્રાઇવેટ નેટવર્ક) ૭.૧૦ ઈન્ટરનેટ સુરક્ષા વિશે માહિતી ૭.૧૧ ફાયરવોલ અને તેનો ઉપયોગ ૭.૧૨ નેટવર્ક ટુબલશૂટિંગ ૭.૧૩ લેખિત અને પ્રાયોગિક સ્વાધ્યાય

DEPARTMENT OF GUJARATI CHILDRAN'S UNIVERSITY, GANDHINAGAR



Emplopability

Structure With Effect From :June, 2020

Course Name: Proof Reading Certificate Course

Total Credit:12 Total Paper :03

Teaching Days in week:03

Per Day Teaching Hours:03

Sr.	Paper Name	Credit	Total Teaching
No.			in Hours
1.	ગુજરાતી ભાષાનો પરિચય	04	64
2.	ગુજરાતી ભાષાનું બંધારણ અને વ્યાકરણ	04	64
3.	પ્રૂફરીડિંગ: સજ્જતા અને કાર્યક્ષેત્ર	04	64
	Total	12	192 Hours

DEPARTMENT OF GUJARATI CHILDRAN'S UNIVERSITY, GANDHINAGAR



SYLLABUS EFFECTIVE FROM: JUNE, 2020

Programme: Proof Reading Certificate Course

Paper Code: CC101 Total Credit: 04

Title of Paper:ગુજરાતી ભાષાપરિચય

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યુનિટ:01 25%

- ગુજરાતી ભાષાનો ઉદભવ અને વિકાસ
- ગુજરાતી ભાષાનો ઉત્તર ભારતીય ભાષાઓ સાથેનો સંબંધ

યુનિટ:02

- ભાષા અને બોલી વચ્ચેની ભિન્નતા
- ગુજરાતની પ્રાદેશિક બોલીઓ
 - 1. ઉત્તર ગુજરાત (પટ્ટણી બોલી)
 - 2. મધ્ય ગુજરાત (ચરોતરી બોલી)
 - 3. દક્ષિણ ગુજરાત (સુરતી બોલી)
 - 4. સૌરાષ્ટ્ર પ્રાંત (કાઠિયાવાડી બોલી)

યુનિટ:03

- ગુજરાતી ભાષાનું શબ્દભંડોળ
 - 1. તત્સમ શબ્દો
 - 2. તદભવ શબ્દો
 - 3. દેશ્ય શબ્દો
 - 4. પર-પ્રાંતીય શબ્દો
 - 5. વિદેશી ભાષાના શબ્દો
 - ગુજરાતી ભાષાની લિપિ

યુનિટ:04 25%

- અસાઇમેન્ટ
- પ્રોજેક્ટ કાર્ય
- પ્રાયોગિક કાર્ય

DEPARTMENT OF GUJARATI CHILDRAN'S UNIVERSITY, GANDHINAGAR



SYLLABUS EFFECTIVE FROM: JUNE, 2020

Programme: Proof Reading Certificate Course

Paper Code: CC102 Total Credit: 04

Title of Paper:ગુજરાતી ભાષાનું બંધારણ અને વ્યાકરણ

Weight age

યુનિટ:01 25%

• ગુજરાતી વર્ણમાળાનો પરિચય (સ્વર અને વ્યંજન)

- ધ્વનિઘટક અને શબ્દઘડતર
- જોડણીના નિયમો
- અક્ષરશુદ્ધિ અને શબ્દશુદ્ધિ

યુનિટ:02

- જોડાક્ષરોના ઉચ્ચાર અને લેખન સમજ
 - વાક્યશુદ્ધિ
 - પદક્રમ અને પદસંવાદ
 - વિભક્તિ

યુનિટ:03

- કૃદંત
- સંયોજકો અને સંધિ
- વિરામચિલ્નો
- નિપાતો

યુનિટ:04 25%

- અસાઇમેન્ટ
- પ્રોજેક્ટ કાર્ય
- પ્રાયોગિક કાર્ય

DEPARTMENT OF GUJARATI CHILDRAN'S UNIVERSITY, GANDHINAGAR



SYLLABUS EFFECTIVE FROM: JUNE, 2020

Programme: Proof Reading Certificate Course

Paper Code: CC103 Total Credit: 04

Title of Paper:પ્રૂફરીડિંગ: સજ્જતા અને કાર્યક્ષેત્ર

Weight age

યુનિટ:01 25%

- પ્રૂફરીડિંગની નિશાનીઓનો પરિચય
- પ્રૂફરીડિંગની નિશાનીઓનો સ્થાનનિર્દેશ

યુનિટ:02

- પ્રૂફરીડિંગ કરતી વખતે ધ્યાનમાં રાખવાની બાબતો
- પ્રૂફરીડરની સજ્જતા

યુનિટ:03

- વ્યવસાયિક ધોરણે પ્રૂફરીડરની આવશ્યકતાઓ
- આધુનિક યુગમાં પ્રૂફરીડિંગની ભૂમિકા

યુનિટ:04

- અસાઇમેન્ટ
- પ્રોજેક્ટ કાર્ય
- પ્રાયોગિક કાર્ય

CHILDRENS UNIVERSITY COURSE TEMPLATE

SEMESTER-WISE DISTRIBUTION OF CREDITS FOR PG FN COURSES

Course No.	Course	Credits
	Title	
	SEMESTER I	
CCFN 101	Human Nutrition	4
CCFN 102	Diet Therapy	4
CCFN 103	Practical 1	4
ECFN 104-A	Food Preservation and Basic Microbiology Or	4
ECFN 104-B	Nutritional Epidemiology	
EGFN 105	Physiology (Basic)	4
FN 106	Prerequisite Course for B.A. Home Science and	-
11(100	B.R.S. Home Science Students	
	Biology, Chemistry, Physics	
	SEMESTER II	
CCFN 201	Maternal and Child Nutrition	4
CCFN 202	Food Science I	4
CCFN 203	Practical 2	4
ECFN 204-A	Project OR	4
ECFN 204-B	Nutritional Biochemistry	
EGFN 205	Research Methodology And Bio statistics	4
	SEMESTER III	
CCFN 301	Public Health Nutrition	4
CCFN 302	Food Science II	4
CCFN 303	Practical 3	4
ECFN 304-A	Food Production Costing & Hospital Management OR	4
ECFN 304-B	Instrumentation	
EGFN 305	Prenatal care and Development	4
	SEMESTER IV	
CCFN 401	Clinical Therapeutic Nutrition	4
CCFN 402	Modern Cookery	4
CCFN 403	Practical 4	4
ECFN 404-A	Dissertation OR	4
ECFN 404-B	Project	
EGFN 405	Internship	4
	TOTAL	80

COURSE OUTLINES FOR COURSES OFFERED IN SEMESTER I

Enterpreneurship



ACADEMIC YEAR

(A)	Department of Home Science				
तंजस्वी बालकः तंजस्वी भारत	Gandhinagar.	2020	2020-2021		
	M.Sc FN				
Year I	Course Type: Core Compulsory	Credits	4		
	Course No:CCFN101				
	Course Title: Human Nutrition				
Semester I		Hours/wk	4		
Objectives	 To enable the students to understand Needs of living healthy life To present and discuss methods of determining discuss the current figures of nutritional requires. To enable them to translate the knowledge into of humans at different stages of life To enable them to understand the application of humans at different stages. 	nutrient requirements ements practical guidelines for f the recent knowledge	for humans and		
_	COURSE CONTENT / SYLLABUS-THEORY Energy Metabolism & Carbohydrates	& PRACTICAL	_		
UnitI	 1. Energy: Definition and Components of Energy Requirer Factors Affecting Energy Expenditure and Requirer Methods of Estimation of Energy Expenditure at Current recommendations for energy intake of Current recommendations for energy intake of Current of Energy metabolism: Obesity and Current term and long term weight maintenance (Current term and long term weight maintenance (Current term and long term weight maintenance) 	uirement and Requirements different age, sex grou ander nutrition			
	2. Carbohydrates				
	 Digestion, absorption and utilization , Functions&Classification of Carbohydrates Regulation of Blood Glucose Concentration Simple and Complex carbohydrates, Non-starch and their role in Nutrition. Glycaemic Index , Glycaemic load and Satiety Disorders related to carbohydrate metabolism Modification of Carbohydrate Intake for Specif 	index: Clinical implica			

Proteins& Lipids 1. Proteins Classification, Food Sources Digestion, Absorption and Transport, Functions Improvement of Quality of Protein in the Diet UnitII Human requirements for proteins (RDA) Methods of Estimating and Assessing protein Requirements at Different StagesLife Cycle Protein Deficiency 2. Lipids **Basic Facts** Types of Fats and its Metabolism (digestion, absorption, transport) • Functions of Fat and Oils Assessment of Lipid status Nutritional Requirements of Fats and Oils, Visible and invisible fats in diets Excessive Fat Intake: Changing Trends in Dietary IntakeEating Out Diseases: Association and Preventive Measures Fat Soluble Vitamins – A, D, E, K& Water Soluble Vitamins (Thiamine, Riboflavin UnitIII Niacin, Pyridoxine, Folic acid, Ascorbic acid, Biotin 1. Fat Soluble Vitamins – A, D, E, K **Basic Facts** Structures of vitamins • Digestion, absorption, transport and metabolism • Food Sources of Vitamins • Bioavailability: Modulators • Function Assessment of vitamin status Interaction with other nutrients Toxicity and deficiency RDA 2. Water Soluble Vitamins (Thiamine, Riboflavin, Niacin, Pyridoxine, Folic acid, Ascorbic acid, Biotin • Basic Facts Structures of vitamins • Digestion, absorption, transport and metabolism Food Sources of Vitamins Bioavailability: Modulators • Function Assessment of vitamin status Interaction with other nutrients Toxicity and deficiency **RDA**

Unit IV

Minerals (Calcium, Phosphorous, Iron, Copper, Zinc, Iodine)& Trace elements (Selenium, Chromium, sodium, Potassium)

- Sources
- Digestion, absorption, transport, metabolism
- Biochemical function
- Deficiency and toxicity
- RDA
- Interaction with other nutrients

References

Books

- 1. Mahan KL and Stump SE (2007). Krause's Food and Nutrition Therapy (12thed.).
- 2. Saunders Publishing Shils ME, Olson JA, Shike M, Ross AC, Cabellaro B and Cousins RJ (2006). Modern nutrition in health and diseases. (10th ed.). Lippincott, Williams and Wilkins publications.
- 3. Indian Council of Medical Research. Nutrient requirements and Recommended Dietary Allowances for Indians. Latest edition.
- 4. Bredanier C. Advanced Nutrition
- 5. Human energy requirement (2004). Report of a joint FAO/WHO/UNU Expert consultation, Rome, 17-24 October 2001. FAO, Food & Nutrition technicalReport series 1.
- 6. Longvah, T., Ananthan, R., Bhaskarachary, K., & Venkaiah, K. (2017). Food Composition Tables. Hyderabad: National Institute of Nutrition.
- 7. ફન્ડામેન્ટલ્સ ઓફ ફૂડ્સ એન્ડ ન્યુટ્રિશન

Journals

- Journal of Nutrition
- 2. American Journal of Clinical Nutrition.
- 3. International Journal of Food Science and Nutrition.
- 4. Nutrition Research.



ACADEMIC YEAR 2020-2021

तंजस्वी बालकः तंजस्वी भारत	•		
	M.ScFN		
Year I	Course Type: CoreCompulsory Course No: CCFN 102 Course Title: Diet Therapy	Credits	4
Semester I		Hours/wk	4
Objectives	 To enable the students to understand processes involved To enable them toknow purpose(s) of therapeutic diet ada To enable them to understand relationship between nutriti To enable them to understand protocol for prescribing the 	ptations, on and infection,	ort
	COURSE CONTENT / SYLLABUS-THEORY		
	 Medical Nutrition Therapy Definitions and Role of Dietician in Health Care Dietetics the Science and Art of Human Nutrition Role of Dietician in Health Care The Nutrition Care Process (NCP) Nutrition Assessment Nutritional Diagnosis Nutrition Intervention Nutrition Monitoring and Evaluation Documentation Importance of Coordinated Nutritional and Rehabilitation S Patient Care and Counselling Patient Care Counselling 		
U nit II	Therapeutic Diets Introduction Types of Dietary Adaptations for Therapeutic Needs Normal Nutrition: A Base of Therapeutic Diet Diet Prescription Constructing Therapeutic Diets Routine Hospital Diet Normal or General Diets Liquid Diets Soft Diets Mode of Feeding Oral Feeding Tube or Enteral Feeding Peripheral Vein Feeding Total Parenteral Nutrition		

Nutritional Management in Fever and infection UnitIII Defence Mechanism in the Body Nutrition and Infection Metabolic Changes during Infection Classification and Etiology of Fever infection **Typhoid** Chronic Fever / Infection **Tuberculosis** HIV (Human Immuno Deficiency Virus) Infection and AIDS (Acquired Immune Deficiency Syndrome) Unit IV **Medical Nutritional Therapy in Critical Care** Nutritional management of Critically III Special feeding method in nutritional Support Enteral Nutrition(EN) benefits advantages of ENIndications for enteric tube feeding for adults and children, Enteral feeds and their specific characteristics Parenteral Nutrition Daily intravenous nutritional requirements in infants and children, PN products available in Indian market Transitioning to Oral Feeding Nutrition care in immune deficiency diseases Care during HIVaids Care duringCancers

Reference

- 1. Robinson CH, Laer MR, Chenoweth WL and Garovich AE (1998). Normal and Therapeutic Nutrition (17thed.). Macmillan Publishing Company, New York
- 2. Mahan KL and Stump SE (2007). Krause's Food and Nutrition Therapy (12thed.) Saunders Publishing
- 3. Association of Physicians of India (1998). API Textbook of Medicine, Vol. I and II. Published by Association of Physicians of India
- 4. થેરાપ્યુટિકન્યુદ્રિશન By ભાવના વૈધ
- 5. ફન્ડામેન્ટલ્સઓફફૂડ્સએન્ડન્યુટ્રિશન



ACADEMIC YEAR 2020-2021

तजस्या बालकः तजस्या	मारत	Gandninagar.		
		M.Sc FN		
Year	I	Course Type: Core Compulsory Course No: CCFN103 Course Title: Practical-1	Credits	4
Semester	I	Course Title. I factical-1	Hours/wk	8
		COURSE CONTENT / SYLLABUS- Practical		1 -
Unit I		Human Nutrition		
		 Plan and prepare normal Balance diet sheet.(for Adult 2. Plan, prepare Recipe with low and high glycemic inde its nutritive value Plan, prepare high Fiber and low Fiber Recipe and ca value Plan, prepare low Fat Recipe and calculate its nutritive Plan, prepare high Protein Recipe and calculate its nutritive 	x foods and c lculate its nut value	alculate
Unit II		Diet Therapy		
		 Market survey of commercial nutritional supplements a substrates. Planning and preparation of diets for patients 	and nutritions	al suppor
		- Liquid diet		
		- Soft diet		
		- Tube or Enteral Feeding		
		3. Nutritional Management in Fever and infection		
Unit II	I	Food Preservation and Basic Microbiology		
		1. Instruments used in microbiology laboratory – Incubator	, Hot air oven	,
		centrifuge, Ph. meter, Autoclave		
		2. Microscope and its parts		
		3. Gram Staining		
		4. Observation of micro-organism from fruit, vegetables, br	ead	
		5. Sterilization methods		
Unit	TX 7	6. Food preparations by using any two physical methods of	preservation	
Unit	1 V	Physiology (Basic)		
		Demonstration of Barr body Plead Graying and Ph factor		
		2. Blood Grouping and Rh factor Massurament of Blood Pressure (After exercise and during	na rost)	
		3. Measurement of Blood Pressure (After exercise and during4. Measurement of body temperature and pulse rate (After exercise)	• /	nd during
		rest)	ci excicise a	na auring



ACADEMIC YEAR 2020-2021

तंजस्वी बालकः वंजस्वी	Department of Home Science Gandhinagar.		2020	-2021
		M.ScFN		
Year	I	Course Type: Elective Compulsory	Credits	4
		Course No: ECFN 104 A		
		Course Title: Food Preservation and Basic Microbiology		<u> </u>
Semester	I		Hours/wk	4
Objectives	S	 To provide basic knowledge about microorganisms, their environment factors affecting their growth To enable students to know about the historical development of microorganisms To provide knowledge on the principals involved in destruction microorganisms in meaning foods To understand role of microorganism in disease and immunities 	s and taxonor	
		COURSE CONTENT / SYLLABUS - THEORY		
Unit I:		Need for Food Preservation	1	
		Food Preservation		
		Food Spoilage		
		Food Infection		
		Taxonomy of microorganisms		
Unit II	-	Role and Significance of Microorganisms in Foods		
		Bacteria		
		• Yeast		
		Mold		
Unit II	ſ	Methods of Isolation, Detection and Destruction of Microorga		
		 Newer and Rapid Methods of Isolation and Detection of Microventional methods Rapid methods (newer techniques) Microbiological criteria for various food products Principals Involved in Destruction of Microorganisms for P Foods Physical methods: drying, freezing, cell storage, he irradiation, high pressure processing. Chemical preservation and natural antimicrobial co Importance of Prebiotics and Probiotics in human health 	rolonged Sto	
Unit IV	7	 Immunity Definition of antigen and antibody Types of immunity – natural and artificial Three stages of immunity – primary, secondary and tertian Auto immune disease – rheumatoid arthritis, Type 1 Diabe Immune body formation 	-	;



ACADEMIC YEAR 2020-2021

तंजस्वी बालकः तंजस्वी बारत		Gandhinagar.	2020-2021				
		M.Sc FN					
Year	1	Course Type: Elective Compulsory	Credits	4			
		Course No: ECFN 104 B					
		Course Title: Nutritional Epidemiology					
Semester	1		Hours/wk	4			
Objectives	8	 To enable the students to understand the role of epidemiologic improving health systems and nutritional status. To understand recent developments in nutritional/ health statu methods and their strengths and limitations 		ı			
		COURSE CONTENT / SYLLABUS - THEORY					
Unit I		Introduction to Epidemiology- Aims of epidemiology					
		Aims &concepts					
		Role &strategies					
		Strengths &weaknesses					
Unit II		Types of Epidemiological Studies					
		Observational studies					
		Experimental studies Randomized Control Trials &Quasi I	Experimental	trials)			
		Non Experimental (Descriptive, Analytical Cohort, of sectional)	case control	& cross			
Unit II	[Determinants of Epidemiological Studies					
		 Direct and indirect parameters of assessment of nutritional community survey Use of epidemiological data, recent developments Planning of health and nutritional surveys Interpretation of epidemiological studies 	status used i	n			

Unit IV Use of Epidemiological Research in Strengthening Nutritional Interventions, National ProgrammesandHealthSystems

- Approaches and Programmes for the control of
 - Under nutrition, Stunting & wasting
 - Vitamin A Deficiency.
 - Iodine Deficiency Disorders.
 - Other programmes for control of NCD's
- Use of surveillance data for program improvement. e.g. National Nutrition Monitoring Bureau, National Family Health Survey, Census data Spermatogenesis and oogenesis

References

- 1. Measuring and Interpreting Malnutrition and Mortality (2005): A Manual by
- 2. CDC & WFP)
- 3. Bonita.R, Beaglehole.R, Kjellstrong.T (2006) Basic Epidemiology- WHO
- 4. Sathe, P.V. Sathe, A.P. (1991) Epidemiology and Management for health Care
- 5. Popular Prakashan, Mumbai
- 6. Willett W. Nutritional Epidemiology (2nd edition). New York: Oxford University Press, 1998. Margetts BM, Nelson M. Design Concepts in Nutritional
- 7. Epidemiology. New York: Oxford University Press, 1997.
- 8. Food and nutrition surveillance systems Technical guide for the development of a food and nutrition surveillance system, WHO regional publication, Eastern
- 9. Mediterranean series, WHO 2013
- 10. Policies for the control of nutritional anemia, vitamin A deficiency, iodine
- 11. Deficiency disorders, Govt. of India.
- 12. National and State Nutrition / Population Education Policies, Govt.of India.
- 13. Maternal & Child Nutrition Series, Lancet 2008 & 2013
- 14. Census 2011, Government of India
- 15. National Nutrition Monitoring Bureau (Latest data)
- 16. SRS, NFHS III & IV Reports, CES, RSOC Reports for India & Gujarat
- 17. Global Nutrition Reports (Latest)

Journals

- 1. Journal of Epidemiology
- 2. Ecology of Foods and Nutrition.
- 3. Indian Journal Med. Research.
- 4. Asia Pacific journal of Nutrition.
- 5. Tropical Pediatrics. Human Physiology by C C Chatteriee



Children's University

ACADEMIC

तंजस्वी बालकः तंजस्वी भारत		School of Nutrition and Health Department of Home Science Gandhinagar.	YEAR 2020-2021					
M.Sc FN								
Year	1	Course Type: Foundation Course Course No: EGFN 105 Course Title: Physiology (Basic)	Credits	4				
Semester	1	V 80 ()	Hours/wk	4				
Objectives	3	 To enable the students to understand the relevant issues an physiology. To enable them to understand the integrated functions of a grounding of nutritional sciences inphysiology. To understand general structure and functions of various s body. To understandstructure and functions of various systems in diseased condition. 	ll systems an	d the				
		COURSE CONTENT / SYLLABUS - THEORY						
Unit I		Digestive and Excretory System						
		 Homeostasis Regulation of Body temperature Digestion & absorption of food Structure and function of Kidney Nephron and Urine formation 						
Unit II		Circulatory and Respiratory System						
		 Blood, blood groups, blood pressure, blood clotting Structure of Heart and junctional tissues of heart Cardiac cycle and Types of circulation Mechanism of respiration Transport of oxygen and carbon dioxide 						

Unit III Nervous and Endocrine System

- Types of nervous system
- Types of neuron and Reflex action
- Transmission of nerve impulse in nerve fiber and synapse
- Types of endocrine glands and its functions Pituitary, thyroid, Para thyroid, and adrenal gland
- Hormones its action and feedback mechanism

Unit IV Reproductive System

- Types of Chromosome, Kariotype
- Spermatogenesis and oogenesis
- Male and Female reproductive system
- Fertilization of ovum and different stages of fetus
- Parturition, Stages of labor, Development of breast and secretion of milk

References

- 18. Human Physiology by C C Chatterjee
- 19. Textbook of medical physiology by Guyton
- 20. Human physiology by Agrawal
- 21. માનવ શરીર રચના અને શરીર ક્રિયા અને સુતીકા શાસ્ત્ર લેખક દિલીપ મહેતા -
- 22. જીવ વિજ્ઞાન લેખક સંધ્યાબેન પરીખ -



तंजस्वी बालकः तंजस्वी बारत	Gandhinagar.	2020-	2021
	M.Sc FN		
Year 1	Course Type: Prerequisite Course Course No: FN 106	Credits	0
Semester 1	Course Title: Biology, Physics, Chemistry	Hours/wk	0
Objectives	Prerequisite Course for B.A. Home Science and B.R.S.		_
Objectives	Trerequisite course for B.73. Home Science and B.13.5.	Home Science Sta	ucits
	COURSE CONTENT / SYLLABUS - THEOR	Y	
Biology	• Cell structure,		
	 Human body parts and 		
	• Various systems,		
	Blood components		
Physics	Temperature and its measurements		
	Guarantee and warrantee of household equipment		
	• Precautions while using		
Chemistry	Solutions, concept of acid, base and salt,		
_	Neutralization reactions,		
	• PH		
	Buffer solutions		
	- Build Solutions		

COURSE OUTLINES FOR COURSES OFFERED IN SEMESTER - II



			M.Sc. FN		
Year	Ι	Cou	urse Type: Core Compulsory urse No: CCFN 201 urse Title: Maternal and Child Nutrition	Credits	4
Semeste r	I			Hours/wk	4
Objectiv	es	2	 To aware the student about complication, requirement during pregnancy and lactation. To provide the knowledge about important weaning food and health and nutrition of mothers. To provide the knowledge about direct nutrition 	ce of breast mi er and child to the nal assessment of	lk, Supplementary and estudents.
Unit	_	T	COURSE CONTENT SYLLABUS- siology and psychological changes during pregn		
			 Importance of Maternal Nutrition. Physiology and psychological change Complication during pregnancy Problems and Treatment during Pregna Embryonic and Fetal growth and Developmen Stages of pregnancy. Types of delivery 	ancy.	
Unit	II	Nut	trition During pregnancyandlactation		
		Nut	 Foods needs and nutritional consideration during. Human Milk Composition. Nutritional Requirement during pregnate. Meal planning for pregnant women. Nutritional Requirement for lactating well and the planning for pregnant lactating well artition During Infancy. Nutrition During Infancy. Brest feeding, weaning foods, Common diseases and diet feeding the planting foods, Bottle feeding, Supplementary diet. 	omen.	lection.

Unit III Pediatric Problems and Nutritional Management

- Congenital Heart Disease (CHD)
- Preterm /Low Birth Weight
- Lactose Intolerance
- Celiac Disease
- Inborn Errors of Metabolism

Unit IV Nutritional program

- Nutritional program for promoting maternal and child nutrition and health.
 - National program for prevention of blindness
 - National Anemia control program
 - Goiter prevention program
 - Integrated Child Development program
 - Midday meal program
 - Matru vandanayojana
 - Kasturba Poshansahay yojana
 - Janni surksha yojana
 - Chiranjivi yojana

Reference

- 1. કૌટુંબિક આહાર આયોજન.લેખકઃ પ્રા. સુશીલાબેન આઈ.પટેલ.
- 2. આહાર અને પોષણના મૂળ તત્વો.લેખક : પ્રા. સુશીલાબેન આઈ.પટેલ.
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- 4. Davidson, S. Passmore, R. Brook, J.F. and Truswell, Human Nutrition and Dietetics, 9th edition, F. and S Livingstone Ltd., Edinburgh and London 1993
- 5. Shanti Gosh, The feeding and care of infants and young children, voluntary health association of India,, New Delhi 6th edition 1992.
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- 8. Thimmayamma, B.V.S and Rao, P (1996), Dietary assessment as part of nutritional

- status in "Textbook of Human Nutrition", New Delhi
- 9. Indian Council of Medical Research (2010), "Nutrient requirements and Recommended Dietary Allowances for Indians", Hyderabad; National Institute of Nutrition.
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- 13. JOURNALS
- 14. Reports of the State of World's Children, Who and UNICEF, Oxford University.
- Reports of National Family Health Survey, International Institute for Population Science, Mumbai.
- 16. World Development Reports, Investing in Health, World Development Indication.
- 17. Indian Journal of Medical Research, ICMR, New Delhi,



dard men dark		Department of Home Science	2020-	21
		Gandhinagar.		
		M.Sc. – FN		
YEAR	I	Course Type: Core Compulsory	Credits	4
LITTE	1	Course No: CCFN 202	Credits	•
		Course Title: Food Science-I		
Semester	II		Hours/wk	4
Objective	es	1. To provides an understanding of composition of various foods	tuff	
o a journa	-	2. To familiarize students with changes occurring in various foo		
		result of processing andcooking		
		3. To enable students to use the theoretical knowledge in various	s applications	and
		foodpreparations		
		COURSE CONTENT / SYLLABUS - THEORY		
Unit I		Introduction to Food Science		
		Definitions		
		Functions of Food		
		Food Groups		
		Food Relations to health		
		Cooking Methods		
		Evaluation of Food		
		Sensory Evaluations		
		Objective Evaluation		
Unit II	ſ	Cereal and Cereal Products		
		• Cereal grains: Structure, composition, classification and g	rading	
		Specific Cereals	8	
		Cereal products ,Breakfast Cereals		
		Role of Cereal in cookery, role in bakery; Batters an	d dough.	
Unit II	Ι	Pulses		
		 Nutritive value composition, 		
		 processing, Storage and infestation 		
		 Milling or Decortications 		
		 Soaking 		
		Germination		
		• Fermentation		
		 Effect of Cooking and Factors affecting cooking quality 		
		Toxic constituents.		
		Role of Pulses in cookery		

Unit IV Sugar and Related product

- Nutritive value
- Properties
- SugarRelated products
- Role of Sugar in Cookery
- Artificial Sweeteners

References

- 1. Food Science (fifth Edition) By B.Srilakshmi
- 2. Charley H (1982). Food Science (2nded.). John Wiley & Sons, New York.
- 3. Potter N and Hotchkiss JH (1996). Foods Science (5thed.). CBS Publication & Distributors, New Delhi.
- 4. Pomeranz Y (1991). Functional properties of food components (2nded.). Academic Press, New York.
- 5. Park Pauline G and Palmer H (1972). Food theory and applications. John Wiley & Sons, New York.
- 6. Goel RK (1979). Technology of Food Products Series No. 29. Small Business Publications, New Delhi.
- 7. SwaminathanM(1979).FoodScienceandExperimentalFoods.Ganeshand Co.,Madras.
- 8. Bowers J (1992). Food Theory and Applications (2nded.). MacMillan Publishing Co., New York.
- 9. Food Science and Technology Series of Monographs.
- 10. Annual Reports of CFTRI.
- 11. Journal of Food Science.
- 12. Journal of Food Science and Technology.
- 13. Indian Food Packer



		Gundiningui.		
		M.Sc FN		
Year	I	Course Type: Core Compulsory Course No: CCFN 203	Credits	4
		Course Title: Practical-2		
Semester	II		Hours/wk	8
Objectives	S	 To aware the student about complication, Psychol nutritional requirement during pregnancy and lactation. To provide the knowledge about importance of breast mil weaning food and health and nutrition of mother and child To provide the knowledge about direct nutritional as groups. 	k, Supplements	ntary an nts.
		COURSE CONTENT / SYLLABUS- THEORY		
Unit I		Maternal Nutrition		
		 Plan a diet for pregnant women. (One week) Plan a diet for a low, Middle and high-income pregnant women. Plan a diet for lactating women. (One week) Plan a diet for a low, Middle and high income lactating women. 		<u>.</u>)
Unit II		Child Nutrition 1. Plan and prepare balanced diet and calculate nutrition for the	following gr	oup.
		Preschool children.(Breakfast, lunch and dinner)		
		• School children.(Breakfast, lunch and dinner)		
		Adolescent girl and boy.(Breakfast, lunch and dinner	er)	
Unit III	[Food Science I 1. Conduct Tests • To know the Sensitivity • Acceptability of a new product		
		To know likes and dislikes		
		2. Prepare Recipe using fermented food product		
Unit IV	7	Food Science I 1. Prepare recipe where crystallization of Sugar take place an 2. Prepare recipe Caramelisation Takes place 3. Prepare Recipes where one –Thread and three Thread cons 4. Market survey of Artificial Sweeteners		lized



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रोजस्वी बालकः तोजस्वी ब		School of Nutrition and Health Department of Home Science Gandhinagar	YEA 2020-	
	_ 1	M.Sc FN		
Year		Type: Elective Compulsory No: ECFN 204 B	Credits	4
		NO: ECFN 204 B Title: Nutritional Biochemistry		
Semester	II	V	Hours/wk	4
Objectives	2. Deve	lop an understanding of principles of biochemistry lop an understanding of major nutrients and its physical nderstand mechanism of metabolic pathways	ological importa	nce
T T • 4 T		COURSE CONTENT / SYLLABUS- THEORY		
Unit I	Carbohy	drates		
	•	Carbohydrates Definition and classification		
	•	Isomerism in monosaccharides D L form, Optical	isomerism, ring	structur
		and aldose ketose isomerism		
	•	Glycolysis and krebs cycle and its energetics		
	•	Errors in metabolism of carbohydrates		
	•	Metabolic disorders Diabetes		
Unit II	Proteins			
	•	Proteins and amino acids definition and classification	on	
	•	Structure and functions of Protein and amino acids		
	•	Urea cycle, Trans amination, deamination and deca	rboxylation	
	•	Protein Synthesis		
	•	Metabolic disorders and errors in protein metabolism	n	
Unit III	Fats			
	•	Fatty Acids definition and classification		
	•	Fats definition and classification		
	•	Some important steroids		
	•	β oxidation of fatty acids		
	•	Ketosis and errors in fat metabolism		
	•	Ketosis and errors in fat metabolism		

Unit IV Enzyme

- Enzyme definition, physical and chemical properties
- Factors affecting enzyme reaction
- Nomenclature and classification of enzymes
- Enzyme Inhibitors
- Physiological importance of enzyme in disease condition

References

- 1. Biochemistry by A C Deb
- 2. Biochemistry by Lehninger
- 3. Biochemistry by West and Todd
- **4.** Biochemistry by Best and Taylor
- 5. Biochemistry by Swaminathan



ACADEMIC YEAR 2020-20

		M.Sc FN		
Year	I	Course Type: Elective Compulsory Course No: ECFN 204A Course Title: Project	Credits	4
Semester	II		Hours/wk	4
Objectives	S	 To impart knowledge about basic concepts of ProjectWork To identify the areas of Research Project and Methods of 		utrition

COURSE CONTENT / SYLLABUS- THEORY

General Guideline for project work:

- Area and topic to be selected in consultation with the concerned faculty.
- Project work should be based on primary data collection.
- Project work should have analysis of data along with other standard inputs.
- Project report should not be less 30-60 typed pages following APA Style of Report writing.
- The assessment of project work: 50 Marks for internal viva-voice
- 50 Marks External (30 Report and 20 External Viva-voice)
- Assessment pattern:
- The Project will be examined by two examiners, one internal (Guide) and other external and the average of the Marks given by two examiners will be the final marks.
- The Viva will be conducted by two examiners who have examined the Project of the student concerned.



		•		
		M.Sc FN		
Year	I	Course Type: Foundation Course	Credits	4
		Course No: EGFN205		
Semester	II	Course Title: Research Methodology and Biostatics	Hours/wk	4
Objectives		To provide knowledge and skills for conducting resea		
Objectives		study to report writing.	ich hom pla	illillig a
		2. To strengthen abilities of students with regard to	identifying 1	research
		problems, formulating research objectives, experimenta		
		data collection and analysis and writing research reports.		
		3. To critique some recent research studies from the persp		
		methodologies, program applications, interdisciplinary	approaches,	gender
		sensitivity COURSE CONTENT / SYLLABUS- THEORY		
Unit I		Basics of research		
		Science and scientific method		
		Research – definition, types, and research design		
		Role of home science in research and statistics		
		Objectives of research		
		Ethics and plagiarism in research		
Unit II		Steps in research		
		How to select a research topic		
		 Hypothesis – definition and types, hypothesis testing 		
		Review of literature		
		Planning of research		
		Methodology and tools		

Unit III

Research Procedure

- Population and Variables definition and types
- Sampling definition and types, Sampling methods
- Data gathering instrument Interview, questionnaire, observation
- Representation of data editing, classification, tabulation and coding
- Graphical representation Bar, Column, Histogram, Pie, Frequency polygon, Ogive

Unit IV

Statistical analysis

- Basics of statistics use of appropriate measurement tools in research
- Frequency distribution continuous and discrete series
- Measurement of central tendency mean, median, mode
- Measurement of dispersion range, mean deviation, quartile deviation, standard deviation
- Student "t" test, chi square test, ANOVA

References

- **6.** Research Methodology by C R Kothari
- 7. Research methods by kahn
- 8. Statistics by Sharma
- 9. સંશોધન પધ્ધતિ અને પ્રવિધિ યુનીવર્સીટી ગ્રંથ નિર્માણ બોર્ડ
- 10. શિક્ષણ અંને સામાજિક વિજ્ઞાનોમા સંસોધનોમાં સંસોધનનુ પધ્ધતિ શાસ્ત્ર By D.A.Uachat
- 11. શિક્ષણ માં આંકડાશાસ્ત્ર યુનીવર્સીટી ગ્રંથ નિર્માણ બોર્ડ

COURSE OUTLINES FOR COURSES OFFERED IN SEMESTER - III



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र्जजरवी बाटक : जंजरवी बार		School of Nutrition and Health Department of Home Science Gandhinagar.	ACADE YEAI 2020-	R
		M.Sc FN		
Year	II	Course Type: Core Compulsory Course No: CCFN 301 Course Title: Public Health And Nutrition	Credits	4
Semester Objectives	III		Hours/wk	4
		 To associate with an existing nutrition health community and conduct situational analysis of the and plan relevant interventions and actions. To explain the significance of nutritional anthropometric classis. To carry out some of the nutritional anthropometric resolutions. To understand the condition of severe-acute malnutits management. 	e existing petry, fication, and methods	orogran d
Unit I		COURSE CONTENT / SYLLABUS - THEORY Community NutritionUnderstanding Public Nutrition Problem Concept Scope Role of Public Nutritionists in Health Care Delivery Nutritional problems inIndia Anemia, vitamin A- deficiency, PEM, goiter, Government programmes for prevention National Nutrition Mission NIPI Vit-A prophylaxes programme Goiter control programme	ns and Prog	gramme

Unit II Assessment of Nutritional Status –1 Goals and Objectives Methods of Nutritional Assessment Indirect Assessment of Nutritional Status Direct Assessment of Nutritional Status Nutritional Anthropometry Uses of Anthropometry Common Measurements Used in Nutritional Anthropometry Methods of Assessing Nutritional Status in Individuals Determination of Nutritional Status using MUAC Determination of Nutritional Status using Weight and Height Methods of Assessment of Nutritional Status of Community Functional indicators such as grip strength, respiratory fitness, Harvard Step test, squatting test. Unit III Assessment of Nutritional Status –2 Clinical Assessment Training and Standardization Clinical Signs of Nutritional Disorders Biochemical Assessment Biochemical Tests-An Overview Biochemical Tests for Nutritional Deficiencies Dietary Assessment Family Diet Survey Assessment of Dietary Intakes of Individuals Qualitative Diet Surveys **Institutional Diet Surveys** Food Balance Sheets (FBS) Unit IV Sever Acute Malnutrition (SAM) And MAM and its Management Severe Acute Malnutrition (SAM) Moderate Acute Malnutrition (MAM)prevalence and causes in India Indicators of SAM and MAM Selective feeding programme guidelines. Management strategies for addressing SAM -complicated and uncomplicated cases including home based care Monitoring of SAM and its treatment A critique of various control strategies for SAM in national programs – Child Malnutrition Treatment Centres CMTC Nutrition rehabilitation centres (NRC)in Gujarat) References 1. National guidelines and consensus on Management of SAM-2014

- 4. Gujarat State Nutrition Policy, Govt of Gujarat, Gandhinagar, 2003

 National Family Health Surveys, IRS and Macro International, 2005
- 5. National Family Health Surveys, IIPS and Macro International, 2005-2006

Community based Management of children with severe acute malnutrition,
 Operational & Technical guidelines, Ministry of health & Family Welfare, Nirman

- 6. Global Nutrition report (Latest)
- Nutrition & the Post 2015 Development Agenda: Siezing the opportunity(2015), SCN News, No 41
- 8. Essential Nutrition Actions: Improving Maternal. Newborn, Infant & YoungChild Nutrition, WHO 2013
- 9. Food and Nutrition Security, BY Dr. SeemaSankarDorcas L. Essiamah
- 10. Mason, J.B., Habich, J.P., Tabatabai, H. and Valverde, V. (1984): Nutritional Surveillance, WHO.
- 11. Lee, R.D. and Nieman, D.C. (1993): Nutritional Assessment, Brown and Benchmark Publishers..
- 12. FAO Nutritional Studies No.4 (1953): Dietary Surveys: Their Technique and Interpretation, FAO.
- 13. Bingham, S.A. (1987): The Dietary Assessment of Individuals, Methods, Accuracy, new Techniques and Recommendations. Nutrition Abstracts and Reviews, 57: 705-743.
- 14. Collins, K.J. (Ed.)(1990) handbook of Methods for the Measurement of work performance, Physical Fitness and Energy Expenditure in Tropical Populations. International Union of Biological Sciences.
- 15. Lohman, T.G.; Roche, A.F.; and Martorell, R. (Ed.) Anthropometric Standardization Reference manual, Human kinetics Books, Ilinois.



तजस्वा बालकः वजस्वा	sire.	Gandhinagar.		
		M.Sc. – FN		
YEAR	II	Course Type: Core Compulsory	Credits	4
		Course No: CCFN 302		
		Course Title: Food Science- II		
Semester	III		Hours/wk	4
Objectives	S	1. To provides an understanding of composition of various		
		2. To familiarize students with changes occurring in va	rious foodsti	ıffs as a
		result of processing and cooking		
		3. To enable students to use the theoretical knowledge in	various app	olications
		and food preparations		
		COURSE CONTENT / SYLLABUS - THEORY		
Unit I		Milk and Milk Products		
		• Composition,		
		Physical and functional properties.		
		• Denaturation,		
		Effects of processing and storage.		
		• Dairy products.		
		Milk substitutes		
Unit II		Nuts and Oilseeds and Fats and Oils		
0 222 22		Nuts and Oilseeds		
		Nutritive value		
		• Properties		
		 Composition, selection(Specific nuts and oil seeds) 	,	
		Protein concentrates and Toxins		
		Fats and Oils		
		 Sources, composition, 		
		 effect of composition on fat, 		
		 classification, 		
		 physical and chemical properties, 		
		Rancidity changes, anti-oxidants and		
Unit III		Fruits and Vegetables		
		Classification,		
		Composition structural features.		
		Enzymes in fruits and vegetables, browning reaction	ns.	
		• Pigments : constituents,		
		• Effect of cooking, acid, alkali, etc. on pigments.		
		 Texture of fruits and vegetables during ripening. 		

Unit IV Spices and Herbs and Evaluation of food Quality

- Spices and Herbs
 - Specific Spices
 - Herbs
- Evaluation of food Quality
 - Sensory properties of foods
 - Sensory Evaluation of food
 - Types of tests
 - Objective evaluation
- Food Adulteration
 - Types of adulteration
 - Food standards and regulation in India

References

- 1. Food Science (fifth Edition) By B.Srilakshmi
- 2. Charley H (1982). Food Science (2nded.). John Wiley & Sons, New York.
- 3. Potter N and Hotchkiss JH (1996). Foods Science (5thed.). CBS Publication & Distributors, New Delhi.
- 4. Pomeranz Y (1991). Functional properties of food components (2nded.). Academic Press, New York.
- 5. Park Pauline G and Palmer H (1972). Food theory and applications. John Wiley & Sons, New York.
- 6. Goel RK (1979). Technology of Food Products Series No. 29. Small Business Publications, New Delhi.
- 7. SwaminathanM(1979).FoodScienceand Experimental Foods.Ganeshand Co. Madras.
- 8. Bowers J (1992). Food Theory and Applications (2nded.). MacMillan Publishing Co., New York.
- 9. Food Science and Technology Series of Monographs.
- 10. Annual Reports of CFTRI.
- 11. Journal of Food Science.
- 12. Journal of Food Science and Technology.
- 13. Indian Food Packer



तंजस्वी बालकः तंजस्वी	भारत	Department of Home Science Gandhinagar.	2020	-2021
		M.Sc FN	1	
Year	II	Course Type: Core Compulsory	Credits	4
		Course No: CCFN 303 Course Title: Practical- 3		
Semester	III		Hours/wk	8
T1 *4 T		COURSE CONTENT / SYLLABUS- Practical		
Unit I		Public Health And Nutrition I1. Training in all assessment techniques applicable for inc	dividuals and	
		community, including ones used for hospital – based p	atients, Valid	lity and
		reliability of these techniques.		
		2. Community based project for assessment of nutritional	status of any	/
		vulnerable group.		
		3. A small evaluation study of a nutrition project.		
Unit II		Public Health And NutritionII		
		 Visit and training in health care Centre run by Governme Planning, conducting and evaluating nutrition educati village/community- through, Demonstration puppet vulnerable group- Children 	on programi	mes (in a
		 Adolescent girl and boy 		
		• Pregnant women		
		Lactating mothers		
Unit III		Food Science II 1. Study the Factors affecting coagulation of milk protein		
		2. Make a survey of different types of milk and milk produ	cts available	in the
		market and note nutritive value from the label		
		3. Find the smoking point of any oil		
		4. Do market survey and find the fat substances available in	the market	
Unit IV	7	Food Science and Food Production and management		
		1. Enzymatic browning in vegetable and fruit and any	four meth	od of
		preventing it		
		2. Sensory evaluation of food product		

3. Food Adulteration tastes
4. New product development (a day canteen by student)
4. New product development (a day canteen by student)



तंजस्वी बालकः तंजस्वी भारत		Gandhinagar.		
		M.Sc FN		
Year	II	Course Type: Elective Compulsory Course No: ECFN 304-A Course Title: Food Production & Hospital Management	Credits	4
Semester	III	1	Hours/wk	4
	,	To enable the students to: 1. Develop excellent communication skills to disseminate known 2. Develop entrepreneurship skills.	wledge.	
		COURSE CONTENT / SYLLABUS- Practical		
		Food Service Establishments History and Development Factors Affecting Development Recent Trends Types of Food Service Establishments Commercial Establishments Non-commercial Establishments Non-commercial Establishments Non-commercial Establishments Traditional Management Approaches to Food Service Management Traditional Approach Classical Approach Scientific Approach Scientific Approach Management by Objectives Systems Approach Quantitative Approach Behavioural and Human Relations Approach Contingency Approach Just-in-Time Total Quality Management Approach		
Unit II		 The Importance of Menu and Menu Planning in Food Set Definition and Functions of a Menu The Need for Menu Planning Knowledge and Skills Required for Planning Menu The Types of Menu and its Applications Types of Menus Uses of Menus Steps in Menu Planning and its Evaluation Construction of Menu How to Plan a Menu? Characteristics of a Good Menu Display a Menu Evaluation of Menu 	rvice Organi	zation

Unit III Organization and Leadership,

- Organizational Chart,
 - Organizational Charts of Dietary/food service department,
 - line of staff, authority, responsibility, power, delegation of authority
 - Centralization and decentralization of food
- Managing an Organization
 - Processes Involved
 - Principles of Management
 - Functions of Management
- Leadership, motivation and communication
 - Dietician as a leader, leadership qualities that a dietitian should possess, styles of leadership and their effect on subordinates.
 - Relation between motivation and performance, Maslow's Theory of Motivation, Fredrik Hedburg Motivation Hygieno Theory, Application of Above theories to motivate subordinates communication, need for communication, process of communication, upward, downward and lateral communication, barriers to effective communication, listening.

Unit IV Personal Hygiene and Sanitary Practices in Hospital

- Personal Hygiene and Sanitary Practices
 - · Health of Staff
 - Sanitary Practices
- Sanitation Training and Education for Food Service Workers
 - Sanitation Training and Education
 - Who should be trained?
 - What a Training Programme should include?
 - Employment Practice
- Hazard Analysis and Critical Control Point (HACCP)
- Work Place Safety
 - Why Accidents should be prevented?
 - How Accidents Take Place?
 - Types of Accidents
 - Precautions to Prevent Accidents
- Sanitation Regulations and Standards
 - Control of Food Quality
 - Adulteration and Misbranding

References

- 1. Thangum Philip (1994) Modern Cookery for Teaching and Trade (Volume 1 & II), Bombay Orient Langman's.
- 2. Shankuntala Mane (1987) Food Facts and Principles, Bombay, Willey Eastern Ltd.,
- 3. Angela Kay (1978) Shining Cook Book, London Octopus Books Ltd.
- 4. B. B. Weste& L. Wood (4th Ed.) Food Service in Institutions New York, John Willey & Sons,
- 5. MohiniSethi&SurjeeetMathan (1993) Catering Management & Integrated Approach, Bombay, Willey Eastern. Ltd.



तंजस्वी बालकः तंजस्वी भारत		Gandhinagar.	2020-	2021	
		M.Sc FN			
Year	II	Course Type: Elective Compulsory	Credits	4	
1 cai	11	Course No: ECFN 304-B	Credits	7	
		Course Title: Instrumentation			
		Course Title. Histiamentation			
Semester	III		Hours/wk	4	
Objectives	6	1. To enable the students to be familiar with routinely used labor	•		
		2. To know the principles and applications of different technique	ies available	for	
		pathological estimations			
COURSE CONTENT / SYLLABUS - THEORY					
Unit I		Basics of Instrumentation			
		1. Colorimetry&Spectrophotometry			
		2. Fluorimetry			
		3. Atomic Absorptiometry			
		4. Flame Photometry			
Unit II		Chromatography			
		1. Paper			
		2. Thinlayer			
		3. Column			
		4. Ion-exchange			
		5. Gas-liquid			
WY *4 WW		High performance liquid chromatography			
Unit III	L	Electrophoresis			
		1. Gel			
		2. Disc gel and sledge			
		3. Immuno electrophoresis and various blotting techniques			
Unit IV	7	Principles and applications of the following techniques			
		1. Dialysis			
		2. Centrifugation			
		3. Auto Analyzer			
		4. Elisa			
		5. RIA and radioisotopes in biology and medicine			
		6. NMR and its applications			
		7. MRI and CT scan			
		Ultra sound and sonography			
		References			
		1. Boyer R (2000). Experimental Biochemistry (3 rd ed.).			
		Modern Person education, Asia			
		2. Dawes EA (1980). Quantitative Problems in Biochemistry			

- (6thed.). LongmanGroup Ltd.
- 3. Khosla BD, Garg VC and Khosla A (1987). Senior Practical Physical Chemistry(5thed.). R.Chand& Sons, New Delhi
- 4. Oser BL (1965). Hawk's Physiological chemistry (14thed.). Tata McGraw-HillPublishing Co. Ltd
- 5. Raghuramulu N, Nair M and Kalyanasundaram KS (1983). A manual oflaboratory techniques. NIN, ICMR.
- Sharma BK (1999). Instrumental methods of chemical Analysis Gel (8thed.).PublishingHouse
 Srivastava AK and Jain PC (1986). Chemical Analysis. An InstrumentalApproach (2nded.). S.Chand Company Ltd.



तंजस्वी बालकः तंजस्वी बारव		Department of Home Science 2020-2			
Commence of the Parket		Gandhinagar.			
		M.Sc. FN			
Year	II	Course Type: Foundation Course	Credits	4	
		Course No: EGFN 305			
Carranatara	III	Course Title: :Prenatal Care and Development	Hours/wk	4	
Semester Objectives		1. To enable the students to understand the concept of pregnancy		4	
Objectives	•	perspective.	III IIIuIaII		
		2. To enable the students to understand the importance of counse	lina		
		3. To enable the students to understand the social, cultural and sp	•	ct of	
		progeny.		11 01	
		4. To familiarize the students the concept of care and dietary mar	nagement dur	ing	
		prenatal.	G	0	
		-			
		COURSE CONTENT / SYLLABUS- THEORY	-		
UnitI		Family and Marriage			
		• Family			
		Concept of family			
		Type of Family			
		 Role and function of family 			
		Family life cycle			
		 Marriage 			
		 Definition of Marriage. 			
		 Types of Marriage 			
		Marriage and Marital Adjustment			
Unit II		Prenatal care			
		Prenatal care			
		• Concept			
		Need and Importance in Current Scenario Before Pregnancy			
		Work Issue,			
		Age as an issue			
		Family History			
		 Genetic testing and Counseling 			
		Emotions			

Unit III Psychological and social aspect Psychological and social aspect psychological stress, psychological counseling Social accept Society and you Cultural aspect family history, family expectation Preparing for Pregnancy **Unit IV** Lifestyle changes Nutrition Exercise Meditations Age as an issue prenatal hazards and remedies Labor and Birth **Birth Process** Stages of birth Types of birth

Reference

- 1. Adarsh Mata- UtamSantan.
- 2. Balshikshan
- 3. Park's Textbook of Preventive and social Medicine 23rdedi.
- 4. ParivarniPathshala, Children's University, Gandhinager.
- 5. AdhinanShastra.
- 6. Sagarbhavasthaanetmarubalak , Dr.BabalalN.Parikh Ushaben Ba. Parikh, Navneet Education Limited, Dantali, Gujarat

COURSE OUTLINES FOR COURSES OFFERED IN SEMESTER IV



		Ganunnagar.					
		P.G.Diploma in Nutrition and Dietetics					
Year	II	Course Type: Core Compulsory	Credits	4			
		Course No: CCFN401					
		Course Title:Clinical Therapeutic Nutrition					
Semester	IV		Hours/wk	4			
Objectives	i	 The course is aimed at giving advanced knowledge in the fie and dietetics The course will enable the students to gain current knowledg pathogenesis, diagnosis, etiology, symptoms and dietetic man diseases 	e about class	ification,			
		COURSE CONTENT / SYLLABUS- Practical					
Unit I		Dietary Management					
		• Weight Imbalance -Prevalence and Classification					
		 Guidelines for Calculating ideal Body Weight 					
		Obesity and underweight					
		•Nutrient and Drug Interaction: Basic Concept					
		Effect of Nutrition on Drugs					
		 Drug Effects on Nutritional Status 					
		Drug and Drug Interaction					
		Clinical Significance and Risk Factors for Drug-Nutr	rient Interacti	ions			
		Guidelines to Lower Risk and Wise Use of Drugs					
		Gastrointestinal Diseases and Disorders					
		Diarrhoea					
		 Constipation 					
		• Oesophagitis					
		 Gastro Oesophageal Reflux Disease (GERD) 					
		• Dyspepsia					
		• Gastritis					
		Diverticular Disease					
		Peptic Ulcer					
		Malabsorption Syndrome'					
Unit II		Dietary Management in Gout and Diabetes Mellitus					
		•Gout					
		 Role of Protein and Purines 					
		 Etiology 					
		 Clinical Features and Complications 					
		 Management of Gout 					
		•Diabetes Mellitus					
		Prevalence of Diabetes Mellitus					
		 Classification and Etiology of Diabetes 					
		Factors Affecting Normal Blood Sugar Levels					
		Diagnosis					
		 Complications of Diabetes 					
		•Management of Diabetes					

Management of Diet Food Exchange System Glycernic Index (GI) Sweeteners: Nutritive and Non-Nutritive Sweeteners Dietetic Foods Beneficial Effect of Some Foods: Supportive Therapy Exercise and Drugs Unit III Coronary Heart Diseases and their Management Coronary Heart Diseases (CHD) Prevalence Etiology: Cardiovascular Risk Factors Pathophysiology of CHD Common Disorders of Coronary Heart Diseases and their Management Dyslipidemia Atherosclerosis: A Coronary Artery Disseise Hypertension (HT) Angina Pectoris Myocardial infarction (MI) Congestive Cardiac Failure Rheumatic Heart Disease (RI-ID) **Unit IV** Dietary Management inLiver and Renal Diseases Liver disorders Viral hepatitis types A and B, C,E Cirrhosis of liver Hepatic coma Kidney Function: Diagnostic Tests Common Renal Diseases Etiology and Dietary Management General Principle of Dietary Management in Renal Diseases Acute and Chronic Nephritis Nephritic Syndrome Acute Renal Failure (ARF) Chronic Renal Failure(CRF)

References

End Stage Renal Disease, (ESRD) and Renal Calculi

- 1. Mahan KL and Stump SE (2007). Krause's Food and Nutrition Therapy (12thed.). Saunders Publishing
- 2. B Srilakshmi. Dietetics. New age international publishers.
- 3. Association of Physicians of India (1998). API Textbook of Medicine, Vol. I and II. Published by Association of Physicians of India
- 4. Dr (smt.) Vijaya d. JoshiHandbook of nutrition and dietetics.Vora medical publications, Bombay
- 5. Avantina Sharma Principles of therapeutic nutrition and dietetics

Journals

- 1. Indian Journal of Nutrition and Dietetics.
- 2. Medical Clinics of North America
- 3. American Journal of Clinical Nutrition

- 4. Journal of Human Nutrition
- 5. Journal of American Medical Association
- 6. Journal of Ph. Diet. Assoc.
- 7. Nutrition Reviews
- 8. World Review of Nutrition and Dietetics.



तंजस्वी बालकः तंजस्वी भारत	Gandhinagar.	2020-2021		
	M.Sc FN			
Year II	Course Type: Core Compulsory	Credits	4	
	Course No: CCFN 402			
	Course Title: Modern Cookery			
Semester IV		Hours/wk	4	
	COURSE CONTENT / SYLLABUS- Practical			
Unit I	Application of Science in cooking			
	Cookery as a Science			
	Objective of cooking			
	Preliminary Preparations			
	Cooking methods Majort heat Mathad and Dry heat mathad			
	Moist heat Method and Dry heat method Migrayyayas applies			
	Microwaves cooking Solar appling			
	• Solar cooking			
Unit II	Advances in food technology Role of food ingredients in cookery			
	Foundation ingredients			
	Fats			
	Resigning Agents			
	• Salt			
	Liquid			
	Flavouring and Seasoning			
	Sweetening and beasoning Sweetening andthickening			
	5 Sweetening and thickening			
Unit III	Food ingredients and Spices used in Indian and Western Co	ookery		
	Importance of spices	·		
	Basic information about spices			
	Functional foods in cookery			
	Ingredients used in bakery items			
	Points consider while making bakery items			
Unit IV	Beverages and Appetizers			
	Classification			
	Nutritive value			
	Cooking tips			
	• Serving			



तंजस्वी बालकः तंजस्व	विवासी वातकः तंजन्ती भारत Gandhinagar.		2020-2021		
		M.Sc FN			
Year	II	Course Type: Core Compulsory	Credits	4	
		Course No: CCFN 403			
		Course Title: Practical- 4			
Semester	IV		Hours/wk	8	
	•	COURSE CONTENT / SYLLABUS- Practical	,	1	
Unit I		Dietary Management in			
		Obesity and underweight			
		Gastrointestinal Diseases and Disorders			
		Gout			
		Diabetes Mellitus			
Unit II		Dietary Management in			
		Coronary Heart Diseases			
		Liver and Renal Diseases			
Unit III		Preparations of			
		Beverage (hot and cold)			
		Soup and Sauces			
		• Cereals			
		• Pulses			
		Vegetables			
Unit IV		Preparations of			
		• Salads			
		Desserts			
		• Snacks			
		Sandwiches			
		Pasta			
		Bakery items			



ACADEMIC YEAR 2020-2021

		M.Sc FN		•	
Year	II	Course Type: Elective Compulsory Course No: ECFN 404A or B Course Title: Dissertation or Project	Credits	4	
Semester	IV		Hours/wk	8	
1. To familiarize the students with the process of research with focus on clinical nutrition 2. To train the students on all steps of research process from problem identificated data dissemination					
	ical approval	process.			
		COURSE CONTENT / SYLLABUS	11	1	
Unit I		Identification of problem of Research in Foods & Nutrition	(5%	<u>⁄6)</u>	
Unit II	[Collecting relevant Review of Literature and developing the experimental design	(10	%)	
Unit II	I	Proposal development, its approval by technical and ethical committee	(10	%)	
Unit IV	7	Tool development for Research and pilot testing / standardization of techniques	(15%)		
Unit V	7	Data Collection / Mid-course corrections	(45)	0/)	
Unit V	I	Data entry; Statistical analysis	(45)	70)	
Unit VI	Ι	Scientific Writing	(15)	%)	
		REFERENCES			

- 1.Indian Journal of Endocrinology & metabolism, Medknow publications & media Pvt. Ltd, Mumbai.
- 2 .Journal of Medical Nutrition & Nutraceuticals, Medknow publications & media Pvt. Ltd, Mumbai.
- 3. Asia Pacific Journal of Clinical Nutrition, Published by HEC Press.

Web journals

- 1.www.diabetologia journal.org (Diabetologia)
- 2.Onlinelibrary.willwg.com/journal/10.1111 (ISSN) 1467 789 X (Obesity review)
- 3.www.adajournal.org (Journal of the Academy of Nut. Of Diabetes)
- 4.As.wiley.com/wiley CDA/wiley title/product Cd NDI.html (Nutrition of Dietetics)



	II	Course Type: Foundation Course	Credits	4
		Course No EGFN 405		
_		Course Title: Internship		
Semester	IV		Hours/wk	8
Objectives		1. To familiarize the students with the hospital organization		
I		2. To train the students in the dietetics department of hospita	.1	
<u> </u>		3. To have hands on experience in the various OPD of a hosp	pital	
		COURSE CONTENT - PRACTICALS		
		Duration of training : 45 working Days		
		Training: Hospital Setting		
		Norms: As per the norms of the hospital		
		Evaluation: The students will be evaluated by the dietician of	the hospital.	
		Note:.	_	
		1. The student will have to prepare a report and submit to	thedepartmen	ıt.
I		2. A presentation has to be made in seminar on their work	experience.	

MASKF-121

Emplopability

Course: M.A. Code: MASKF-121

Paper Name: संस्कृत-भाषावबोधनम्- १

	<u> </u>						
Subject	Subject Name		Evaluation Components				
Code							
		EXTERNAL INTERNAL		RNAL			
		PASSING	OUT OF	PASSING	OUT OF		
		MARKS	MARKS	MARKS	MARKS		
MASKF-	Sanskrit	20	50	20	50	40/100	
121	Bhashavbodhanam-1						

Course Objectives	 To acquaint students with the basic principles of Sanskrit grammar. To demolish the general wrong concept and mentality as to speak in Sanskrit is the toughest task. To establish the correct concept of Sambhashan (Spoken) Sanskrit, as it is the simplest language to acquire and anyone can speak Sanskrit, is a piece of cake.
Course Outcomes	 Students acquire the fundamental rules of spoken Sanskrit grammar. Students will be able to understand Sanskrit subjects in Sanskrit language. Students will easily acquire day to day communication in Sanskrit Language.

COURSE	Paper Code	Paper Name	Units	
Foundation	MASKF-121	संस्कृत-भाषावबोधनम्– १	8	संस्कृतभाषाया: महत्त्वम्
				भाषाप्रवेश: पाठः १ तः ६पर्यंतम्
			२	भाषाप्रवेश: पाठः ७ तः १२
				पर्यंतम्
			Ŗ	भाषाप्रवेश: पाठः १३ तः १८
				पर्यंतम्
			8	भाषाप्रवेश: पाठः १९ तः २५
				पर्यंतम्

संदर्भग्रन्थ: -

- भाषाप्रवेशः, सम्पादकाः- डॉ. चाँदिकरण सलूजा, डॉ. विश्वासः, सुधीष्टकुमार मिश्रः, गिरीशचन्द्र तिवारी,एम्.वि. मोहनः संस्कृत भारती, नव देहली
- प्रथमा दीक्षा ,प्रकाशन- राष्ट्रियसंस्कृत संस्थान, देहली
- अनुवाद चन्द्रिका, चक्रधर नौटियाल, मोतीलाल बनारसीदास, चौखम्बा प्रकाशन
- संस्कृत वाक्य संरचना, वसन्तकुमार भट्ट, सरस्वती पुस्तक भण्डार
- संस्कृत पंकजम्, पंकजः झा, प्रकाशकः श्री बैद्यनाथ संस्कृत संस्थान, देवघर, झारखंड
- अनुवाद चन्द्रिका, चक्रधर नौटियाल, मोतीलाल बनारसीदास, चौखम्बा प्रकाशन

संस्कृत वाक्य संरचना, वसन्तकुमार भट्ट, सरस्वती पुस्तक भण्डार संस्कृत पंकजम्, पंकजः झा, प्रकाशकः – श्री बैद्यनाथ संस्कृत संस्थान, देवघर, झारखंड • संस्कृत स्वयं शिक्षक, श्रीपाद दामोदरः सातवालेकरः, प्रकाशकः – राज्यपाल एन्ड सन्स ,देहली • प्रमुख संस्कृतम्, प्रकाशकः – बी.ए. पी.एस. स्वामीनारायण संस्थान, बोटाद, गुजरात

Foundation – MSKF-221

Course: M.A. Code: MASKF-221

Paper Name: Sanskritbhashavbodhanam-2 (संस्कृत-भाषावबोधनम् - २)

Cubicat	Subject Name	· <u>·</u> τ	Evaluation Commonants					
Subject	Subject Name	1	Evaluation Components					
Code								
		EXTER						
		PASSING	OUT	PASSING	OUT			
		MARKS	OF	MARKS	OF			
			MARKS		MARKS			
MASKF-	Sanskrit	20	50	20	50	40/100		
221	Bhashavabodhanam -							
	<u>2</u>							

Course Objectives	 To acquaint students with the basic principles of Sanskrit grammar. To demolish the general wrong concept and mentality as to speak in Sanskrit is the toughest task. To establish the correct concept of Sambhashan (Spoken) Sanskrit, as it is the simplest language to acquire and anyone can speak Sanskrit, is a piece of cake.
Course Outcomes	 Students acquire the fundamental rules of spoken Sanskrit grammar. Students will be able to understand Sanskrit subjects in Sanskrit language. Students will easily acquire day to day communication in Sanskrit Language.

Paper	Paper Name	Units	
MASKF- 221	Sanskritbhashavbodhanam-2 (संस्कृत-भाषावबोधनम्– २)	8	भाषाप्रवेश: पाठः -२६ तः ३१ पर्यंतम्
		2.	भाषाप्रवेश: पाठः -३२ तः ३७ पर्यंतम
		3.	भाषाप्रवेश: पाठः -३८ तः ४३ पर्यंतम्
		4.	भाषाप्रवेश: पाठः -४४ तः ५० पर्यंतम
\.	ode IASKF-	ode IASKF- Sanskritbhashavbodhanam-2	ode IASKF- 21 (संस्कृत-भाषावबोधनम्– २) 2.

संदर्भग्रन्थ: -

- भाषाप्रवेशः, सम्पादकाः- डॉ चाँदिकरण सलूजा, डाँ। विश्वासः, सुधीष्टकुमार मिश्रः,गिरीशचन्द्र तिवारी,एम्। वि। मोहनः संस्कृत भारती, नव देहली
- प्रथमा दीक्षा ,प्रकाशन- राष्ट्रियसंस्कृत संस्थान देहली
- अनुवाद चिन्द्रका, चक्रधर नौटियाल, मोतीलाल बनारसीदास, चौखम्बा प्रकाशन
- संस्कृत वाक्य संरचना, वसन्तकुमार भट्ट, सरस्वती पुस्तक भण्डार
- संस्कृत पंकजम्, पंकजः झा, प्रकाशकः श्री बैद्यनाथ संस्कृत संस्थान, देवघर, झारखंड
- संस्कृत स्वयं शिक्षक, श्रीपाद दामोदरः साटवालेकरः, प्रकाशकः राज्यपाल एन्ड सन्स ,देहली
- प्रमुख संस्कृतम्, प्रकाशकः बी.ए. पी.एस. स्वामीनारायण संस्थान, बोटाद, गुजरात