Revised Course Curriculum and Syllabus of B.Sc.(Hons) Community Science

As per Recommendations of V Deans Committee ICAR, New Delhi

for

State Agricultural Universities of Maharashtra From Academic Year 2017-18

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

Degree and Discipline Coordinators

Degree Coordinator

Name	Designation
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Acknowledgement

The College of Home Science, VNMKV Parbhani is the only one College in the four SAUs of Maharashtra. It was established on 15th May 1976. The staff and students are very delighted as the nomenclature of Home Science is changed as **Community Science** from the year 2017-2018 and its degree programme **B.Sc** (Hons) Community Science as 3+1, which means students study in the first 3 years only core courses and in the 4th year they do Implant training, RAWE and Students Ready Programme with integrated dual specialization, which is made keeping in mind the changing trends in job market and needed skills development for creating more avenues for self employment and start-up India.

I, Prof.Vishala Patnam, Associate Dean (Home Science) and Degree Coordinator would like to thank and express gratitude to all the higher authorities ICAR and SAUs, all the experts of ICAR Vth Deans Committee, DICC members, members BoS & Faculty members of Home Science, Members of Academic Council and Executive Council of VNMKV,Parbhani for giving approval to the note worthy changes made in Home Science education and also making it possible to implement it from the academic year 2017-2018.

I owe special thanks to DICC, Dr.B.R.Ulmek, Dean & DI and Chairman, MPKV Rahuri, Dr.A.S.Dhawan, Dean &DI, VNMKV, Parbhani, Dr.R.G.Burte, Dean & DI, Dr.BSKKV, Dapoli, Dr.V.M.Bhale, Dean&DI, Dr.PDKV, Akola, Dr.S.J. Kakade, Director of Education, MCAER, Pune, Dr.R.K.Rahane, Controller, MAUEB, Pune and all other members for their critical feedback, good suggestions and constant encouragement in completing the task of revising and finalizing syllabus of B.Sc (Hons) Community Science as per ICAR Vth Deans Committee recommendations.

I also appreciate and acknowledge the valuable contributions made by all the HODs, Course Coordinators, academic staff and students of the College of Home Science in accomplishing the task properly. I am sure the new degree programme will be very useful to students in fulfilling their educational and career dreams.

Prof. Vishala Patnam Associate Dean College of Home Science VNMKV Parbhani

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Degree: B.Sc. (Hons) Community Science (2017-18)

Department wise Credit load

S.No.	Course Layout	No. of	Credit
		courses	load
1	Common Courses	11	30
2	Non Gradial Courses	05	07
3	Human Development and Studies	07	23
4	Resource Management and Consumer Science	08	24
5	Food Science and Nutrition	08	22
6	Textiles and Apparel Designing	07	19
7	Community Extension and Communication Management	06	16
8	Implant Training + RAWE		20
9	Students READY Programme (SRP) – Module 1 or 2		20
	Total credits		181

Semester wise Credit Load

Semester number	Theory	Practical	Total
I	12	12	24
II	13	11	24
III	12	12	24
IV	10	14	24
V	12	11	23
VI	12	10	22
VII	00	20	20
VIII	00	20	20
			181

DEPARTMENT WISE COURSE LAY OUT

COMMON COURSES

S.No.	Semester Course No	Common Courses	Credits
	No		

				Theory	Practical	Total
1	I	LANG 111	Comprehension and Communication Skills in English	1	1	2
2	I	ESDM 111			1	3
3	I	IRS 111	Introduction to Rural Sociology	2	-	2
4	II	LANG 122	Technical Writing (English)	1	1	2
5	II	AGRIL IN121	Agricultural Informatics 1 2		2	3
6	II	BIOCHEM 121	Principles of Biochemistry	2	1	3
7	III	FMICRO 231	Fundamentals of Food Microbiology	2	1	3
8	III	STAT 231	Elementary Statistics	2	1	3
9	IV	CSPD 241	Community Skills and Personality Development	2	1	3
10	V	EHP 351	Elementary Human Physiology	2	1	3
11	V	ECOM 351	Economics and Marketing	2	1	3
			TOTAL	19	11	30
Non G	radial C	ourses	1			
1	I	NSS 111	National Service Scheme		2	2
2	Ι	DEG 111	Democracy, Elections And Good Governance	1	0	1
3	II	EDNT 121	Educational Tour I (M.S.)		1	1
4	IV	PHEY 241	Physical Education and Yoga		2	2
5	IV	EDNT 242	Educational Tour II (India)		1	1
5						

DEPT. OF HUMAN DEVELOPMENT AND STUDIES

S.No.	Semester	Course Number	Course Title		Credits	
		1 (dilloci		Theory	Practical	Total
1	I	HDS111	Fundamentals of Human Development	2	1	3
2	II	HDS122	Marriage and Family Dynamics	2	1	3
3	III	HDS233	Life-Span Development	2	2	4
4	IV	HDS244	Educational Psychology and Early Childhood Education	2	2	4
5	V	HDS355	Developmental Challenges in Children	2	1	3
6	VI	HDS366	Family Counselling and Child Welfare	2	1	3
7	VI	HDS 367	Education and Counselling for Parents & Community		3	3
			TOTAL	12	11	23
	Student RE	EADY Program	nme			
8	VII	SRP 471	Implant training		10	10
9	VII	SRP 472	RAWE		10	10
10	VIII	SRP 481	Experiential Learning		20	20
			TOTAL		40	40

DEPARTMENT OF RESOURCE MANAGEMENT AND CONSUMER SCIENCE

S.No.	Semest		Course Title			
	er	Number		Theory	Practical	Total
1	I	RMCS 111	Fundamentals of Art and Design	1	2	3
2	II	RMCS 122	System Dynamics and Management of Resources	2	1	3
3	III	RMCS 233	Financial Management and Consumer Education	2	1	3
4	IV	RMCS 244	Housing and Space Management	2	1	3
5	IV	RMCS 245	Ergonomics and Appropriate Technologies	1	2	3
6	V	RMCS 356	Residential and Commercial Space Design	2	1	3
7	V	RMCS357	Event Management		3	3
7	VI	RMCS 368	Entrepreneurship Development and Business Management	2	1	3
			TOTAL	12	12	24
	Student	READY Pro	gramme			
8	VII	SRP 471	Implant Training		10	10
9	VII	SRP 472	RAWE		10	10
10	VIII	SRP 481	Experiential Learning		20	20
			TOTAL		40	40

DEPARTMENT OF FOOD SCIENCE AND NUTRITION

S.No.	Semester	Course	Title of the course		Credits	
		No.				
				Theory	Practical	Total
1.	I	FSN 111	Food Science and Processing	2	1	3
2.	II	FSN 122	Principles of Human Nutrition	2	1	3
3.	III	FSN 233	Food Standards and Quality Control	2	1	3
4	III	FSN 234	Food Preservation and Storage		2	2
4.	IV	FSN 245	Normal Nutrition	1	1	2
5.	V	FSN 356	Therapeutic Nutrition	2	1	3
6.	VI	FSN 367	Food Analysis	1	2	3
7.	VI	FSN 368	Community Nutrition and Education	2	1	3
			TOTAL	12	10	22
	Student R	EADY Progr	amme			
8.	VII	SRP 471	Implant Training		10	10
9.	VII	SRP 472	RAWE		10	10
10.	VIII	SRP 481	Experiential Learning		20	20
			TOTAL		40	40

DEPARTMENT OF TEXTILES AND APPAREL DESIGNING

S.No.	Semester	Course No.	Course Title		Credits	
				Theory	Practical	Total
1	I	TAD 111	Fundamentals of Clothing Construction	1	2	3
2	II	TAD 122	Textile Science and Fabric Care	2	1	3
3	III	TAD 233	Garment and Accessory Designing		3	3
4	IV	TAD 244	Techniques of Fabric Construction	1	2	3
5	V	TAD 355	Textile Finishes	1	1	2
6	VI	TAD 366	Retailing and Merchandizing- Textiles and Apparel	2		2
7	VI	TAD 367	Traditional Textiles and Costumes of India	2	1	3
			TOTAL	9	10	19
	Student RI	EADY Program	mme			
8	VII	SRP 471	Implant Training		10	10
9		SRP 472	RAWE		10	10
10	VIII	SRP 481	Experiential Learning		20	20
			TOTAL		40	40

DEPARTMENT OF COMMUNITY EXTENSION AND COMMUNICATION MANAGEMENT

S. No.	Semester	Course No.	Course Title		Credits	
				Theory	Practic al	Total
1	I	CECM 111	Community Extension and Rural Development	1	1	2
2	II	CECM 122	Communication, Diffusion and adoption of Homestead Technologies	1	2	3
3	III	CECM 233	Programme Development for Rural Families	2	1	3
4	IV	CECM 244	Training and Human Resource Development	1	2	3
5	V	CECM 355	Project Management	1	2	3
6	VI	CECM 366	Women in Agriculture	1	1	2
			TOTAL	7	9	16

SEMESTER WISE COURSE LAY OUT

I Year I Semester

S.No.	Course No.	Course Title		Credits		
			Theory	Practical	Total	
		A. Core Courses				
1	CECM 111	Community Extension and Rural	1	1	2	
		Development	1	1	2	
2	TAD 111	Fundamentals of Clothing Construction	1	2	3	
3	FSN 111	Food Science and Processing	2	1	3	
4	RMCS 111	Fundamentals of Art and Design	1	2	3	
5	HDS 111	Fundamentals of Human Development	2	1	3	
		B. Common Courses				
6	LANG 111	Comprehension and Communication	1	1	2	
0		Skills in English	1		2	
7	IRS 111	Introduction to Rural Sociology	2	-	2	
8	ESDM 111	Environmental Studies and Disaster	2	1	2	
		Management	2	1	3	
		C. Non Gradial Courses				
9	NSS 111	National Service Scheme		2	2 (NG)	
10	DEG 111	Democracy, Elections And Good	1	0	1 (NC)	
		Governance	1	U	1 (NG)	
		TOTAL	12+1NG	9+2(NG)	21+3(NG)	

I Year II Semester

S.No.	Course No.	Course Title	Credits		
			Theory	Theory Practical	
		A. Core Courses			
1	CECM 122	Communication Diffusion and Adoption of Homestead Technologies	1	2	3
2	TAD 122	Textile Science and Fabric Care	2	1	3
3	FSN 122	Principles of Human Nutrition	2	1	3
4	RMCS 122	System Dynamics and Management of Resources	2	1	3
5	HDS 122	Marriage and Family Dynamics	2	1	3
		B. Common Courses			

6	LANG 122	Technical Writing (English)	1	1	2
7	BIO CHEM 121	Principles of Biochemistry	2	1	3
8	AGRI. IN 121	Agricultural Informatics	1	2	3
		C. Non Gradial Courses			
9	EDNT 121	Educational Tour I (M.S.)		1	1 (NG)
		TOTAL	13	10+1(NG)	23+1(NG)

II Year III Semester

S.No.	Course No.	Course Title		Credits		
			Theory	Practical	Total	
		A. Core Courses				
1	CECM 233	Programme Development for Rural	2	1	3	
		Families				
2	TAD 233	Garment and Accessory Designing		3	3	
3	FSN 233	Food Standards and Quality Control	2	1	3	
4	FSN 234	Food Preservation and Storage		2	2	
5	RMCS 233	Financial Management and Consumer Education	2	1	3	
6	HDS 233	Life Span Development	2	2	4	
		B. Common Courses				
7	STAT 231	Elementary Statistics	2	1	3	
8	FMICRO 231	Fundamentals of Food Microbiology	2	1	3	
		TOTAL	12	12	24	

II Year IV Semester

S. No.	Course No.	Course Title	Credits			
			Theory	Practical	Total	
		A. Core Courses				
1	RMCS 244	Housing and Space Management	2	1	3	
2	TAD 244	Techniques of Fabric Construction	1	2	3	
3	FSN 244	Normal Nutrition	1	1	2	
4	HDS 244	Educational Psychology and Early Childhood Education	2	2	4	

5	CECM 244	Training and Human Resource	1	2	3
		Development			
6	RMCS 245	Ergonomics and Appropriate	1	2	3
		Technologies			
		B. Common Courses			
7	CSPD 241	Communication Skills and Personality	2.	1	2
		Development	2	1	3
		C. Non Gradial Courses			
8	PHEY 241	Physical Education and Yoga		2	2(NG)
9	EDNT 242	Educational Tour II (India)		1	1 (NG)
		TOTAL	10	11+3(NG)	21+3(NG)

III Year V Semester

S.No.	Course No.	Course Title	Credits		
			Theory	Practical	Total
		A. Core Courses			
1	TAD 355	Textiles Finishes	1	1	2
2	FSN 355	Therapeutic Nutrition	2	1	3
3	CECM 355	Project Management	1	2	3
4	HDS 355	Developmental Challenges in Children	2	1	3
5	RMCS 356	Residential and Commercial Space Design	2	1	3
6	RMCS357	Event Management		3	3
		B. Common Courses			
7	ECON 351	Economics and Marketing	2	1	3
8	EHP 351	Elementary Human Physiology	2	1	3
		TOTAL	12	11	23

III Year VI Semester

S.No.	Course No.	Course Title		Credits		
			Theory	Practical	Total	
		A. Core Courses				
1	TAD 366	Retailing and Merchandizing- Textiles and Apparel	2		2	
2	TAD 367	Traditional Textiles and Costumes of India	2	1	3	
3	FSN 366	Food Analysis	1	2	3	
4	FSN 367	Community Nutrition and Education	2	1	3	
5	RMCS 367	Entrepreneurship Development and Business Management	2	1	3	
6	HDS 366	Family Counseling and Child Welfare	2	1	3	
7	HDS 367	Education and Counselling for Parents & Community		3	3	
8	CECM 366	Women in Agriculture	1	1	2	
		TOTAL	12	10	22	

IV Year VII Semester

S.No.	Course No.	Course Title	Credits		
			Theory	Practical	Total
		Student READY Programme			
1	SRP 471	Implant Training		10	10
2	SRP 472	RAWE		10	10
		Total		20	20

IV Year VIII Semester

Module I Product Development and Entrepreneurship (RMCS/TAD)

S.No.	Course No.	. Course Title	Credits		
			Theory	Practical	Total
		Student READY Programme			
1	SRP 481	Experiential Learning Programme (RMCS/TAD)		20	20
	RMCS/TAD				
		Total		20	20

Module II Community Nutrition and Welfare (HDS/FSN)

S.No.	Course No.	Course Title	Credits		
			Theory	Practical	Total
		Student READY Programme			
1	SRP 481	Experiential Learning Programme (HDS/FSN)		20	20
	HDS/FSN				
		Total		20	20

DISCIPLINE WISE SYLLABUS & COURSE CURRICULUM BASIC COURSES

Course No. LANG 111 Title Comprehension and Communication Skills in English Credits 2(1+1) Semester I

Theory

The following Lessons from the textbook—*Current English for Colleges* (by N Krishnaswamy and T. Sriraman; Macmillan; 2007 Rs. 95/-)—are for the theory classes along with the Exercises at the end of each lesson. Education, Employment, Unemployment, Application, Planning, Curriculum Vitae, Interview, Reporting, General Knowledge, Stress Short Story, Environment, Computerecy, A Dilemma, Entertainment, War Minus Shooting, You and Your English Usage and Abusage.

Practical

Vocabulary- Antonym, Synonym, Homophones, Homonyms; Functional grammar: Articles, Prepositions; Verb, Subject-Verb Agreement; Written Skills: Paragraph writing, Precis writing; The Style: Importance of professional writing; Preparation of Curriculum Vitae and Job applications; Interviews: kinds, Importance and process; Listening Comprehension: Listening to short talks lectures, speeches (scientific, commercial and general in nature). Oral Communication: Stress and Intonation, Conversation practice. Reading skills: reading dialogues, rapid reading, intensive reading, improving reading skills. Mock Interviews: testing initiative, team spirit, leadership, intellectual ability. Group Discussions.

Teaching Schedule-TheoryWith Weightages(%)

Lecture No.	Topics	Weightage (%)
1	Education	5
2	Employment	5
3	Unemployment	5
4	Application	5
5	Planning	5
6	Curriculum Vitae	5
7	Interview	5
8	Reporting	5
9	General Knowledge	5
10	Stress	5
11	Short Story	10
12	Environment	10
13	Computeracy	5
14	A Dilemma	5
15	Entertainment, & War Minus Shooting	5
16	You and Your English Usage and Abusage	5
	Total	100

Practical Exercises

Exercise No.	Title
1.	Vocabulary: Antonym, Synonym, Homophones, Homonyms
2.	Vocabulary based on competitive exams
3.	Functional Grammar: Articles, Prepositions
4.	Verb, Subject—Verb Agreement
5.	Written Skills: Pragraph Writing, Precis' Writing
6.	The Style: Importance of Professional Writing
7.	Preparation of Curriculum Vitae and Job Applications
8.	Interviews: Kinds, Importance and Preparation
9.	Listening Comprehension Short Speeches, Talks, Lectures
	(Scientific, Commercial and General)
10.	Oral Communication: Stress and Intonation
11.	Oral Communication: Conversation Practices
12.	Oral Communication: Conversation Practices
13.	Improving Reading Skills: Rapid Reading, Intensive Reading,
14.	Mock Interviews: Testing Initiative, Team Spirit, Leadership and
	Intellectual Abilitiy
15.	Group Discussions
16.	Group Discussions

Suggested Readings

1.Text Books

- 1) Balasubrmanyam M. (1985). Business Communication. Vani Educational Books, New Delhi.
- 2) Krishnaswamy, N and Sriraman, T. (1995). Current English for Colleges. Macmillan India Ltd. Madras.

2. Reference Books

- 1) Carnegie, Dale. (2012). How to Win Friends and Influence People in the Digital Age. Simon & Schuster.
- 2) Covey Stephen R. (1989). The Seven Habits of Highly Successful People. Free Press.
- 3) Harold Wallace and Ann Masters. Personality Development. Cengage Publishers.
- 4) Mamatha Bhatnagar and Nitin Bhatnagar. (2011). Effective Communication and Soft Skills. Person Education.
- 5) Meenakshi Raman, Sangeeta Sharma. Technical Communication Principles and Practice
- 6) Mohan Krishna and Meera Banerjee. (1990). Developing Communication Skills. Macmillan India Ltd. New Delhi.
- 7) Naterop, Jean, B. and Rod Revell. (1997). Telephoning in English. Cambridge University Press, Cambridge.
- 8) Narayana swamy V R. (1979). Strengthen your writing. Orient Longman, New Delhi.
- 9) Sharma R C and Krishna Mohan. (1978). Business Correspondence. Tata Mc Graw Hill Publishing Company, New Delhi.
- 10) Spitz berg B, Barge K & Morreale, Sherwyn P. (2006). *Human Communication: Motivation, Knowledge & Skills*. Wadsworth.
- 11) Verma, KC. (2013). The Art of Communication. Kalpaz.

Course No. ESDM 111 Title Environmental Studies and Disaster Management
Credits 3(2+1) Semester I

Theory

Multidisciplinary nature of environmental studies- Definition, scope and importance. Natural resources- Renewable and non-renewable resources and their associated problems. Forest resources- Use and over-exploitation, deforestation, timber extraction, mining, dams and their effects on forest and tribal people. Water resources- Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. Mineral resources- Use and exploitation, environmental effects of extracting and using mineral resources. Food resources- World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity. Energy resources- Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Land resources- Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of an individual in conservation of natural resources, equitable use of resources for sustainable lifestyles.

Ecosystems- Concept, structure and function of an ecosystem. Producers, consumers and decomposers, energy flow in the ecosystem, ecological succession. Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structure and function of forest, grassland, desert and aquatic ecosystems. Biodiversity and its conservation- Introduction, definition, genetic, species, ecosystem diversity and biogeographical classification of India. Value of biodiversity- Consumptive use, productive use, social, ethical, aesthetic and option values. Biodiversity at global, national and local levels, India as a mega-diversity nation. Hot-sports of biodiversity. Threats to biodiversity- Habitat loss, poaching of wildlife, man-wildlife conflicts, endangered and endemic species of India. In-situ and Ex-situ conservation of biodiversity.

Environmental pollution- Definition, cause, effects and control measures of air, water, soil, marine, noise and thermal pollution and nuclear hazards. Solid waste management- Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution.

Social issues and the environment- Unsustainable to sustainable development, urban problems related to energy. Water conservation, rain water harvesting, watershed management. Environmental ethics- Issues and possible solutions, climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Environment protection acts- Air (Prevention and control of pollution) act, water (Prevention and control of pollution) act, wildlife protection act, forest conservation act, Issues involved in enforcement of environmental legislation, public awareness. Human population and the environment- Population growth, variation among nations, population explosion. Role of Information Technology in environment and human health.

Natural Disasters - Meaning and nature, types (floods, drought, cyclone, earthquakes, landslides, avalanches, volcanic eruptions, heat and cold waves, global warming, sea level rise, ozone depletion) and effects. Man-made disasters- Nuclear, chemical, and biological disasters, building fire, coal fire, forest fire, oil fire, road accidents, rail accidents, air accidents, sea accidents. Disaster management- International strategy for disaster reduction at national and global levels; National disaster management framework- Financial arrangements, role of NGOs, community-based organizations and media, central, state, district and local administration, armed forces in disaster response, police and other organizations. Feeding the people struck by the disaster, managing house and dress need during disaster.

Practical

Visit to a local area to document environmental assets, group discussions, Report writing. Study of simple eco systems, Preparing poster, chart on simple eco system , visit to a local polluted site-Urban/rural/industrial/agricultural. Short skit on simple eco systems / polluted site, Arranging environment awareness rally. Collecting herbarium, Utilization of resource for sustainable life style, preparing a project on remedies for pollution free environment

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1	The Multidisciplinary nature of environmental studies –Definition, scope and importance	10
2-4	Natural resources –Renewable and non-renewable resources and their associated problems: forest, land, water, energy, food, minerals. Role of individual in conservation of natural resources.	12
5-8	Ecosystems Concept, structure and function of an ecosystem. Forest, grassland, desert and aquatic ecosystems Producers, consumers and decomposers, energy flow in the ecosystem, ecological succession. Food chains, food webs and ecological pyramids.	12
9 – 12	Biodiversity and its conservation-Introduction, definition, genetic, species, ecosystem diversity and bio geographical classification of India. Value of biodiversity. Biodiversity at global, national and local levels, India as a mega-diversity nation. Hot-sports of biodiversity. Threats to biodiversity- In-situ and Ex-situ conservation of biodiversity	15
13 – 18	Environmental pollution- Definition, cause, effects and control measures of air, water, soil, marine, noise and thermal pollution and nuclear hazards. Solid waste management- Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution.	15
19 – 24	Social issues and the environment - Unsustainable to sustainable development, urban problems related to energy. Water conservation, rain water harvesting, watershed management. Environmental ethics- Issues and possible solutions, climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Environment protection acts- Issues involved in enforcement of environmental legislation, public awareness.	12
25 – 28	Human population and the environment-Population growth, variation among nations, population explosion. Role of Information Technology in environment and human health. Environmental values.	12
29 - 30	Natural Disasters -Meaning and nature, types (floods, drought,	06

	Total	100
31-32	Disaster management- International strategy for disaster reduction at national and global levels; National disaster management framework- Financial arrangements, role of NGOs, community—based organizations and media, central, state, district and local administration, armed forces in disaster response, police and other organizations. Feeding the people struck by the disaster, managing house and dress need during disaster.	06
	cyclone, earthquakes, landslides, avalanches, volcanic eruptions, heat and cold waves, global warming, sea level rise, ozone depletion) and effects. Man-made disasters Nuclear, chemical, and biological disasters, building fire, coal fire, forest fire, oil fire, road accidents, rail accidents, air accidents, sea accidents.	

Practical Exercises

Exercise	Title
No.	
1	Visit to a local area to document environmental assets
2	Group discussion
3	Report writing
4	Study of simple ecosystem
5	Preparing chart/poster on simple ecosystem
6	Visit to a local polluted site
7	Presenting report of the visit
8	A short skit on simple ecosystem/ polluted site
9	Preparing for environment awareness rally
10	Environment awareness rally
11	Writing report on awareness rally
12	Collecting Herbarium
13	Preparing Herbarium file
14	Creative activities - Utilization of resources for sustainable lifestyles
15	Creative activities – Preparing a project on remedies for pollution free environment
16	Presentation of report

Suggested Readings

1.Text Books

- 1. Bharucha, E. (2005). Text book of environmental studies. University Grants Commission, University Press, New Delhi.
- 2. Kapur, A. (2005). Disasters in India: Studies of grim reality. Rawat publication, Jaipur.

2.Reference Books

- 1. Chauhan, B.C. (2008). Environmental studies. University Science Press, New Delhi.
- 2. De, A.K. (2010). Environmental chemistry. Willey Eastern ltd. New Delhi.
- 3. Singh, S. and Singh, J. (2013). Disaster Management. Pravilika Publication Allahabad.

Course No. IRS 111 Credits 2(2+0) Theory

Title Introduction to Rural Sociology Semester I

Rural sociology- Meaning, scope and significance.. Indian rural social stratification: Castes-Basic notions, changes and its role in economy and policy, difference between caste and class, backward classes and implementations of constitutional provisions. Indian rural institutions: Social-Family and marriage (Nature, forms and changes), Economic-political: Land relations and changes; rural poverty: its manifestations and causes. Socio-religious: Functional significance of beliefs, traditions and customs. Rural social changes - Processes and factors of transformation.

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1	Rural sociology- Meaning	5
2 & 3	Scope and significance	10
4	Indian rural social stratification	2
5 & 6	Castes- Basic notions,	5
7, 8, 9	Changes and its role in economy and policy	5
10	Difference between caste and class,	5
11, 12	Backward Classes	4
13, 14	Implementations of constitutional provisions	4
15	Indian rural institutions	2
16,17,18	Family (Nature, forms and changes),	10
19, 20	Marriage (Nature, forms and changes),	5
21	Economic-political: institutions	2
22	Land relations and changes;	4
23, 24	Rural Poverty: its manifestations	10
25,	Rural Poverty: causes	5
26	Socio-religious institutions	2
27	Functional significance of beliefs,	4
28	traditions and customs	4
29, 30	Rural social changes - Processes	8
31, 32	Factors of transformation.	4
	Total	100

Suggested Readings

1.Text books

- 1. Chitambar, J.B. (1973). Introductory rural sociology. New York, John Wiley and Sons.
- 2. Desai, A.R. (1978). Rural sociology in India. Bombay, Popular Prakashan, 5th Rev. Ed.
- 3. Doshi, S.L. (2007). Rural sociology. Delhi Rawat Publishers.
- 4. Jayapalan, N. (2002). Rural sociology. New Delhi, Atlantic Publishers.
- 5. Sharma, K.L. (1997). Rural society in India. Delhi, Rawat Publishers.

2. Reference Books

- 1. Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- 2. Ray, G.L. (2004), Extension Communication and Management. New Delhi: Kalyani Publishers
- 3. Reddy, A.A (2001), Extension Education, Baptala: Sri Lakshmi Press.

3. e- Books

eBooks - Rural Sociology - Research & Course Guides at ...

 $http://clemson.libguides.com/https://books.google.co.in/books/about/Rural_Sociology_in_Indiality.$

a. http://www.digitalbookindex.org/_search/search010sociologya.asp

Emerald: Research in Rural Sociology and Development

http://www.emeraldgrouppublishing.com/products/books/series.htm?id=1057-1922

Sociology: Urban and Rural Sociology..

http://press.uchicago.edu/ucp/books/subject/su56/su56 20.html

Course No. NSS 111 Title National Service Scheme

Credits 2(0+2) Semester I

Practical

Introduction and basic components of NSS: Orientation: history, objectives, principles, symbol, badge; regular programmes under NSS, organizational structure of NSS. Code of conduct for NSS volunteers, points to be considered by NSS volunteers awareness about health. NSS programmes and activities Concept of regular activities, special camping, day camps, basis of adoption of village/slums, conducting survey. Analysing guiding financial patterns of scheme, youth programme/ schemes of GOI, Coordination with different agencies and maintenance of diary. Understanding youth Definition, profile, profile, categories, issues and challenges of youth. Opportunities for youth who is agent of the social change. Community mobilisation .Mapping of community stakeholders, designing the message as per problems and their culture. Identifying methods of mobilisation involving youth-adult partnership. Social harmony and national integration Indian history and culture. Role of youth in nation building, conflict resolution and peace-building. Volunteerism and shramdan

Indian tradition of volunteerism, its need, importance, motivation and constraints. Shramdan as part of volunteerism. Citizenship, constitution and human rights .Basic features of constitution of India, fundamental rights and duties. Human rights, consumer awareness and rights and rights to information . Family and society Concept of family, community (PRIs and other community based organizations) and society.

Practical Exercises

Exercise	Title
No.	
1&2	Introduction and basic components of NSS: Orientation: history, objectives, principles, symbol, badge; regular programmes under NSS, organizational structure of NSS
3&4	Code of conduct for NSS volunteers, points to be considered by NSS volunteers awareness about health

5&6	NSS programmes and activities
	Concept of regular activities, special camping, day camps, basis of adoption of
	village/slums, conducting survey
7&8	Analysing guiding financial patterns of scheme, youth programme/ schemes of
	GOI
9&10	Coordination with different agencies and maintenance of diary
11&12	Understanding youth
	Definition, profile, profile, categories, issues and challenges of youth
13&14	Opportunities for youth who is agent of the social change
15&16	Community mobilisation
	Mapping of community stakeholders, designing the message as per problems
	and their culture
17&18	Identifying methods of mobilisation involving youth-adult partnership
19&20	Social harmony and national integration
	Indian history and culture.
21&22	Role of youth in nation building, conflict resolution and peace-building
23&24	Volunteerism and shramdan
	Indian tradition of volunteerism, its need, importance, motivation and
	constraints.
25&26	Shramdan as part of volunteerism
27&28	Citizenship, constitution and human rights
	Basic features of constitution of India, fundamental rights and duties
29&30	Human rights, consumer awareness and rights and rights to information
31&32	Family and society -Concept of family, community (PRIs and other
	community based organizations) and society

Course No. H/DEG-111 Course Title: Democracy, Elections and Good Governance

Credits: 1 (1+0) Semester I

Theory

Unit No. 1

Democracy – Introduction meaning, classification, Principles of Democracy, Dimensions of democracy, Democracy and Diversity Decentralization : concept, features, Fundamental Rights in the Indian Constitution, Outcomes of Democracy and Challenges of Democracy

Unit No. 2

Independent Election Commission in India powers of election commission in India, Elections to local self Government Bodies, National level, State level, Institutions at the local level Municipal Cooperation, Municipal Council Nagar Panchayat, ZillaParishad, PanchayatSamiti, Gram Panchayat: powers duties, Constitutional Provision of 73 & 74 constitutional Amendment Act and Important features of 73 & 74 Constitutional Amendment Act

Unit No. 3

Good Governance : Concept, meaning, Government & Good Governance, , Good Governance and India, Nature of G.G. in India, Attributes of Poor Goverance1 and Steps taken for Good Governance in India.

Suggested Readings:

- 1) Development and Democrasy in India by Shailendra D Dharma, Publication : Publisher: Lynne Rienner, Boulder. Year: 2002
- 2) The Constitution of India, by P. M. Bakshi.Publication:Universal Law Publishing. Edn.: 14th, Year :2017

Teaching Schedule (Theory)

Lecture	Topic	Weightage
		(%)
1	Democracy – Introduction meaning, classification	4
2	Principles of Democracy, Dimensions of democracy	6
3	Democracy and Diversity Decentralization : concept, features,	6
4	Fundamental Rights in the Indian Constitution	10
5	Outcomes of Democracy, Challenges of Democracy	5
6	Independent Election Commission in India powers of election commission in India	8

	Total	100
16	Steps taken for Good Governance in India	10
15	Attributes of Poor Goverance1	5
14	Government & Good Governance, , Good Governance and India, Nature of G.G. in India	5
13	Good Governance : Concept, meaning	5
12	Important features of 73 & 74 Constitutional Amendment Act	5
11	Constitutional Provision of 73 & 74 constitutional Amendment Act	5
9 & 10	ZillaParishad, PanchayatSamiti, Gram Panchayat: powers duties	10
8	Institutions at the local level Municipal Cooperation, Municipal Council Nagar Panchayat	8
7	Elections to local self-Government Bodies, National level, State level	8

Course No. LANG 122 Credits 2(1+1) Title Technical Writing (English) Semester II

Theory

Technical writing – writing process- sentence structure, types of sentences, sentence correction. Paragraph writing – definition, requirement for good paragraph. Report writing – format, various forms, technical & social correspondence, Business correspondence, parts of a letter, types of letter, complaints, requests, inquires, answers to inquiries. Scientific writing – format, source, selection of a topic, review of literature, tables, figures, footnotes, bibliography etc. Punctuation & capitalization, comma, Semicolon, colon, period.

Structural & functional English- note taking, synonyms, antonyms, acronyms Soft skills- verbal & non-verbal communication Speech sounds

Practical

Technical writing – writing process. Sentence structure, types of sentences, sentence correction. Paragraph writing – definition, requirement for good paragraph. Punctuation & capitalization, comma, Semicolon, colon, period. Report writing – format, various forms. Technical & social correspondence. Business correspondence. Parts of a letter, types of letter. Complaints, requests. Inquiries, answers to inquires, Scientific writing – format, source, selection of a topic, Review of literature, Tables, figures, footnotes, bibliography etc. Structural & functional English- note taking, synonyms, antonyms, acronyms, Speech sounds, Preparation and presentation of report

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)

1	Technical writing - writing process steps-prewriting, drafting,	5
	revising, editing	
2	Sentence structure, types of sentences based on function,	5
	sentence correction, subject, predicate, complements	
3	Paragraph writing - definition, requirement for good paragraph,	5
	beginning of paragraph, supporting sentences, concluding	
	paragraph, types of paragraph	
4	Punctuation and capitalization, comma, semicolon, colon, period.	5
5	Report writing - format, various forms	5
6	Technical and social correspondence	5
7	Business correspondence- drafting rules	5
8	Parts of a letter, types of letter	5
9	Complaints, requests	5
10	Inquiries, answers to inquires	5
11	Scientific writing - format, source, selection of a topic, choosing	10
	a topic, gathering of information, compiling & organizing	
	information, preparation to write, writing a body	
12	Review of literature	10
13	Tables, figures, footnotes, bibliography etc.	5
14	Structural & functional English- note taking, synonyms,	10
	antonyms, acronyms	
15	Soft skills- verbal & non-verbal communication, fundamental	10
	skills for effective oral and written communication in English	
16	Speech sounds	5
	Total	100

Practical Exercises

Exercise	Title
No.	
1	Technical writing – writing process-
2	Sentence structure, types of sentences, sentence correction
3	Paragraph writing – definition, requirement for good paragraph
4	Punctuation & capitalization, comma, Semicolon, colon, period.
5	Report writing – format, various forms
6	Technical & social correspondence
7	Business correspondence
8	Parts of a letter, types of letter
9	Complaints, requests
10	Inquiries, answers to inquires
11	Scientific writing – format, source, selection of a topic,

12	Review of literature,
13	Tables, figures, footnotes, bibliography etc.
14	Structural & functional English- note taking, synonyms, antonyms, acronyms
15	Speech sounds
16	Preparation and presentation of report

Suggested Readings

1. Text Books

- 1 Jones, Daniel (1993) Everyman's English pronouncing Dictionary, Universal book stall, New Delhi
- 2 Sharma S. D (1984) A textbook of spoken and written English Vikas, Delhi

Course No. AGRILIN 121

Title Agricultural Informatics

Credits 3 (1+2)

Semester II

Theory

Introduction to Computers, Definition: Hardware, Software & firmware. Types of software. Data Representation, Number systems (Binary, Hexadecimal). Difference between ASCII & UNICODE (Different Encoding Schemes) Primary , Secondary Memory , Units used for measurement of memory , Input Output devices. Operating Systems, definition and types File Management. Applications used for document creation & Editing, Data presentation using slides. Use of Spread sheets for statistical analysis, evaluating mathematical & logical expressions. Use of Spread sheets for Interpretation and graph creation. Database, concepts and types, uses of DBMS/RDBMS in health & nutrition. Database design, creation, Database, concepts and types, uses of DBMS/RDBMS in Agriculture Database design, creation, Preparation of presentation. Import export operations, using numerical tabular data/text/graph /slides within different applications using cut-paste. Introduction to web development technologies such as HTML5, CSS & responsive web design. Introduction to XML & its applications. Decision support systems, concepts, components and applications for Home Science.

Practical

Study of Computer Components, accessories. Practice of important DOS Commands. Introduction of different operating systems such as MS-Windows, Unix/ Linux, Creating, Files & Folders, File Management. Word-Processing – 1, Word Processing – (Formatting) (Table Operations, File & Import/Export 2, Presentation Spreadsheet – (Introduction, File Menu) (Edit, Insert Menu), functions. Chart. DBMS/RDBMS-Concept, operations, Creating, Updating Querying/Retrieving data, relation, Introduction to World Wide Web (WWW). Demonstration information system related to Home Science fields. Introduction to HTML 5 tag, Preparation of web page using fundamental tags- font, effects, table, forms. Introduction to CSS, XML applications. Hands on Decision Support System,

Teaching Schedule-Theory With Weightages(%)

Lecture No.	Topics	Weightage (%)
1	Introduction to Computers, Definition: Hardware, Software & firmware. Types of software.	3
2	Data Representation, Number systems (Binary, Hexadecimal). Difference between ASCII & UNICODE (Different Encoding Schemes)	2
3	Primary, Secondary Memory, Units used for measurement of memory, Input Output devices	7
4	Operating Systems, definition and types	3
5	File Management.	5
6	Applications used for document creation & Editing, Data presentation using slides.	5

	Total	100
	applications for Home Science.	
16	Decision support systems, concepts, components and	10
15	Introduction to XML & its applications	3
	CSS & responsive web design.	
14	Introduction to web development technologies such as HTML5,	7
	applications using cut-paste.	
	numerical tabular data/text/graph /slides within different	
13	Preparation of presentation. Import export operations, using	10
12	Database design, creation,	8
	Agriculture	
11	Database, concepts and types, uses of DBMS/RDBMS in	2
10	Database design, creation,	7
	& nutrition.	
9	Database, concepts and types, uses of DBMS/RDBMS in health	3
8	Use of Spread sheets for Interpretation and graph creation.	5
	mathematical & logical expressions.	
7	Use of Spread sheets for statistical analysis, evaluating	20

Practical Exercises

Exercise	Title
No.	
1	Study of Computer Components, accessories
2	Practice of important DOS Commands (internal)
3	Practice of important DOS Commands (External)
4	Introduction of different operating systems such as MS-Windows, Unix/ Linux,
	Creating, Files & Folders, File Management.
5	Word-Processing – 1
6	Word Processing – 2 (Formatting)
7	Word Processing – 2 (Table Operations, File & Import/Export)
8	Presentation
9	Spread sheet - (Introduction, File Menu)
10	Spread sheet – (Edit ,Insert Menu)
11	Spread sheet – (Functions)
12	Spread sheet – (Functions)
13	Spread sheet – (Chart)
14	DBMS/RDBMS (Concepts, Operations)
15	Creating, Updating database
16	Creating, Updating database
17	Querying/Retrieving data
18	Querying/Retrieving data, reports
19	Querying/Retrieving data, relation
20	Querying/Retrieving data, relation, reports
21	Introduction to World Wide Web (WWW). Writing basic html page scripts.

22	Demonstration of information system related to home science field.
23	Introduction to HTML 5 tag
24	Introduction to HTML 5 tag
25	Preparation of Web page using fundamental tags.
26	Preparation of Web page using fundamental tags. (Font Effects)
27	Preparation of Web page using fundamental tags.(Table)
28	Preparation of Web page using fundamental tags.(Forms)
29	Introduction to CSS
30	Introduction to XML
31	XML applications
32	Hands on Decision Support System

Suggested Readings

1.Text Books

- 1. Sinha Pradeep K. and Sinha Priti Computer Fundamentals, III edition, BPB Publications, B-14, Connaught Place, New Delhi 110 001.
- 2. Sinha P.K. Computer Fundamentals, BPB Publications, B-14] Connaught Place, New Delhi -110001.

2. Reference Books

- 1. Mastering Office Professional for window 95, BPB Publications, B-14, Connaught Place, New Delhi 110001.
- 2. V.G. Panse and P.V. Sukhatma Statistical Methods for Agricultural workers, ICAR, New Delhi. 110001.

3. e-Books

- 1. http://www.tutorialsforopenoffice.org/category index/base.html
- 2. http://mkisan.gov.in/downloadmobileapps.aspx
- 3. http://www.nrsc.gov.in/Agriculture
- 4. http://iasri.res.in/
- $5.\ http://communication theory.org/berlos-smcr-model-of-communication$

Title Principles of Biochemistry Semester II

Theory

Recapitulation of basic chemistry and biology Water, pH and buffers, Acid-base balance Cellular constituents, Structure and function: Amino acid and proteins Carbohydrates Lipids and bio membranes Nucleic acids Dissolved molecules – Vitamins and minerals Enzymes, function, properties, mechanism Metabolism of cellular constituents Basic concepts of Bioenergetics Carbohydrates metabolism Glycolysis and glycogenolysim HMP pathway TCA Cycle Electron transport chain Photosynthesis Gluconeogenesis Lipids metabolism beta-oxidation ketone bodies Fatty acid synthesis Amino acid metabolism General reactions of nitrogen assimilation and excretion Biosynthesis of DNA, RNA and Protein Replication Transcription Translation and genetic code Regulation of gene expression

Practical

Preparation of solutions-buffers and pH determination; Qualitative and quantitative tests of carbohydrates, amino acids. Estimation of reducing sugars by Nelson-Somogyi method. Determination of total protein by Micro –Kjeldahl method, Estimation of free amino acids by Ninhydrin method, estimation of total crude fat/ oil by Soxhlet method, determination of crude fibres from seeds of cereals/pulses, determination of starch by Anthrone method, estimation of potato oxidase from Potato, Paper chromatography/TLC demonstrations for separation of amino acids Determination of amylase activity, urease activity, analysis of proximate constituents in food.

Teaching Schedule-Theory With Weightages(%)

Teaching Schedule-Theory with Weightages (%)		
Lecture	Topics	Weightage
No.		(%)
1	Recapitulation of basic chemistry and biology	2
2	Water, pH and buffers, Acid-base balance	4
3	Cellular constituents: plant cell structure, cell organelles and their	2
	functions	
4-5	Structure and function: Amino acid and proteins	6
6-7	Carbohydrates – Classification, Structure and function:	7
8-9	Lipids: Classification, Structure and function and bio membranes	5
10-11	Nucleic acids: Types, structure of DNA, difference between DNA	5
	and RNA and properties	
12-13	Vitamins: Classification, Structure and biological functions and	6
	role of minerals	
14-16	Enzymes: Definition, classification, properties, function, factor	8
	affecting enzyme activity and mechanism of action	
17-18	Metabolism of cellular constituents Basic concepts of	7

	Bioenergetics	
19-21	Carbohydrates metabolism Glycolysis and glycogenolysim HMP	11
	pathway TCA Cycle Gluconeogenesis Electron transport chain	
22-23	Lipids metabolism Beta-oxidation Ketone bodies	5
24	Fatty acid synthesis	4
25-26	Photosynthesis: photosynthetic pigments, light and dark reaction	6
	of photosynthesis, C3 & C4 photosynthesis	
27	Amino acid metabolism: reactions like deamination,	5
	transamination and decarboxylation. Biosynthesis of some amino	
	acids	
28	General reactions of nitrogen assimilation and excretion	5
29	Biosynthesis of DNA, RNA: Replication Transcription	5
30-31	Genetic code & Protein Translation and	5
32	Regulation of gene expression	2
	Total	100

Practical Exercises

Exercise	Title
No.	
1	Preparation of solution, pH & buffers
2-3	Qualitative tests for carbohydrates and amino acids
4	Estimation of reducing sugars by Nelson-Somogyi method
5	Determination of total protein by Micro-Kjeldahl method
6	Estimation of free amino acid by Ninhydrin method
7	Estimation of total crude fat/oil by Soxhlet method
8	Determination of crude fiber from seeds of cereal/pulses.
9	Determination of starch by anthrone method
10	Estimation of potato oxidase from potato
11	Paper chromatography/ TLC demonstration for separation of amino acids
12	Determination of amylase activity
13	Determination of urease activity
14-15	Analysis of proximate constituent in food
16	Review and revision

Suggested Readings

1.Text Books

- **1** Bhatia S.C., (1984), Biochemistry in Agricultural Sciences, Shree Publication House, New Delhi.
- 2 Jain J.L. etal (2005), Fundamentals of Biochemistry, S. Chand & Company Ltd., New Delhi

- 3 Purohit S.S. (2009), Biochemistry Fundamentals and Applications, Agro bios, Jodhpur
- 4 Rama Rao A.V.S.S., (2002) A Textbook of Biochemistry. Edition, 9, illustrated. Publisher, Sangam Books Limited, New Delhi
- **5** Rastogi S.C. (2003) Biochemistry Tata Mc Graw-Hill Education, New Delhi.
- 6 Singh M. (2011), A Textbook of Biochemistry, Dominant Publishers & Distributors, New Delhi
- 7 Veer kumari L. (2007), Biochemistry. MIP Publisher, Chennai

2. Reference Books

- 1 Com EE & Stump PK. (2010). Outlines of Biochemistry. 5th Ed. John Wiley Publications.
- **2** Donald Voet and Judith G. Voet. (2011) Biochemistry, 4th Ed. John Wiley and Sons, Inc., NY, USA.
- 3 David L. Nelson and Michael M. Cox. (2012). Lehninger Principles of Biochemistry, 6th Ed. Macmillan learning, NY, USA
- 4 Goodwin, TW & Mercer EI. (1983). Introduction to Plant Biochemistry 2nd Ed. Oxford, New York. Pergaman Press.
- 5 Jeremy M. Berg, John L. Tymoczko, Lubert Stryer and Gregory J. Gatto, (2002). Biochemistry, 7th Ed. W.H. Freeman and Company, NY, USA
- 6 Jayaram. T. (1981). Laboratory manual in biochemistry, wiley Estern Ltd. New Delhi:
- 7 Plummer D. (1988). An introduction to Practical Biochemistry, 3rd ed. Tata McGraw Hill, New Delhi.
- 8 Practical biochemistry: R.L. Nath. A treatise on Analysis of Food, Fats and Oils: A.R. Sen, N.K. Pramanik and S.K. Roy
- 9 Sadasivam S, manickam A (1996) Biochemical methods. 2^{nd} Edition, New Age International (p) Ltd. Publisher, New Delhi.

Course No. EDNT 121 Title Educational Tour I (M.S.)
Credits 1 (0+1) Semester II

Educational tour is compulsory for students. This educational tour is to provide first hand experiences of educational and historical places associated/ related to the curriculum. The tour will be conducted in Maharashtra State.

Course No. FMICRO 231
Credits 3 (2+1)

Title Fundamentals of Food Microbiology Semester III

Theory

Major groups of microorganisms associated with food Sources of microbial contamination in food factors effecting growth and survival of mo. in foods Physical methods to control microorganisms. Chemical methods to control microorganisms Food Fermentations Traditional fermented foods of India and other Asian countries Probiotics, prebiotics and symbiotic Fermented foods based on milk Fermented foods based on meat Fermented foods based on grains Fermented foods based on fruits and vegetables Fermented beverages Role of microorganisms and food spoilage ,organisms of milk Spoilage organisms of meat Spoilage organisms of grains Spoilage organisms of fruits and vegetables Principles of food preservation. Food poisoning and food borne infections Microbial toxins Indicator organisms Rapid methods for detection of microorganisms.

Practical

Microscopic examination of bacteria, yeast and molds Preparation of media. Methods of sterilization, Isolation of microorganisms. Purification of microorganisms Maintenance of microorganisms Detection of fecal coliform, MPN of coli forms Microbiological examination of milk Microbiological examination of grains Microbiological examination of fruit and vegetables

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1-2	Major groups of microorganisms associated with food sources of microbial contamination in food	7
3	Factors effecting growth and survival of mo. in foods	3
4-5	Physical methods to control microorganisms	7
6-7	Chemical methods to control microorganisms	7
8-9	Food Fermentations Traditional fermented foods of India and other Asian countries	7
10-11	Probiotics, prebiotics and symbiotic rich foods	7
12-13	Fermented foods based on milk and meat	7
14	Fermented foods based on cereal and legumes grains	3
15	Fermented foods based on fruits and vegetables	3
16	Fermented beverages	3
17-18	Role of microorganisms in food spoilage	7
19	Spoilage organisms of milk and their preservation	3
20	Spoilage organisms of meat and their preservation	3
21-22	Spoilage organisms of cereal and legumes grains and their preservation	7
23-24	Spoilage organisms of fruits and vegetables and their preservation	7

	Total	100
31-32	Rapid methods for detection of microorganisms.	3
29-30	Microbial toxins Indicator organisms	3
27-28	Food poisoning and food borne infections	7
25-26	Principles of food preservation.	7

Exercise	Title
No.	
1	Microscopic examination of bacteria
2	Microscopic examination of yeast and moulds
3	Preparation of media.
4	Learning Methods of sterilization
5	Practising Methods of sterilization
6	Isolation of microorganisms.
7	Preparation of pure microbial culture
8	Learning Methods of Maintenance of microbial culture
9	Maintenance of microbial culture
10	Detection of faecal coliform
11	Detection of MPN of coli forms
12	Learning Methods of Microbiological examination of milk
13	Microbiological examination of milk
14	Learning Methods of Microbiological examination of grains
15	Microbiological examination of grains
16	Learning Methods of Microbiological examination of fruit and vegetables

Suggested Readings

1.Text books

- Kapoor, T. and Yadav. (1991). An Introduction to Microbiology.
 Pelczar, *et al.* (1996). Microbiology, 5th edn.
- 3. Stanier Ingraham and Wheels and Painter. (1992). General Microbiology. 5thed.

Course No. STAT 231 Credits 3 (2+1)

Title Elementary Statistics Semester III

Theory

Definition of statistics and its applications in Home Science, limitations, types of data, classifications and frequency distribution and tabulation of data, qualitative and quantitative classification, discrete and continuous variables, frequency tables, grouped and ungrouped data. One and two dimensional diagrams with applications. Histogram, frequency curve, frequency polygon, frequency curve, cumulative frequency curve (ogive curve)

Basic concepts of logarithms, Arithmetic mean, median, mode, GM, HM, weighted average, percetiles and decilies, its merits and demerits. Relationship between AM, GM and HM, Characteristics of ideal measure (grouped and ungrouped data)

Range, mean deviation from A.M., quartile deviation, standard deviation and variance and respective relative measures (grouped and ungrouped Data). Moments, relationship between raw moments and central moments (grouped and ungrouped Data). Measures of skewness and kurtosis, definitions of symmetrical distribution, relationship between mean, median and mode and between quartiles for symmetrical and skewed distributions.

Definition of random experiment, sample space, events, simple, mutually exclusive, equally likely events, complimentary and independent events, conditional probability, permutations and combinations, Random variable, Definition of probability (mathematical, statistical, axiomatic), and related terms, addition and multiplication theorem (without proof). Simple problems based on probability.

Bivariate data, scatter diagram, Definition of correlation, Karl Person coefficient of correlation, its properties and test of significance, Spearman's Rank correlation coefficient. Problems based on correlation, Definition of Regression, Simple linear regression of Y on X and X on Y and its properties, fitting and test of significance of regression coefficient, comparison and relation between correlation and regression coefficients. Problems based on regression.

Introduction to statistical inference, Tests of significance, basic definitions, hypothesis, testing of hypothesis null and alternative hypothesis, tests statistic, types of errors, degrees of freedom, level of significance, critical region, steps in testing of hypothesis, one sample and two sample t-test for equality mean and paired t- tests, Chi-square test of goodness of fit and independence of attributes.

Discrete and continuous probability distributions, definition of random variable, discrete and continuous random variables probability distribution of random variable, concepts of discrete and continuous probability distribution (probability mass and density function)

Basic concept of binomial theorem, binomial distribution, formula, properties and its applications, Poisson Distribution formula, properties and its applications, Normal distribution formula, Normal Curve properties, Standard normal distribution and its applications.

Introduction and definition of ANOVA, assumptions of ANOVA, assignable and non-assignable factors, analysis of one way classified data (CRD).

Definitions of population, sample, parameter, statistic, need of sampling, sampling versus complete enumeration introduction to simple random, stratified and multistage sampling methods. Simple random sampling with and without replacement. Use of random number tables for selection of simple random sample.

Practical

Graphical & Diagrammatic representation of data, one and two dimensional diagrams. Simple, multiple component and percentage bar diagrams, pie-diagram, histogram. Frequency polygon, frequency curve, ogives.

Computation of Arithmetic Mean, Median, mode, geometric mean, harmonic mean, quartiles, deciles and percentiles for Ungrouped data, Computation of Arithmetic Mean, Median, mode, geometric mean, harmonic mean, quartiles, deciles and percentiles for grouped data

Computation of various measures of dispersion Range, mean deviation from A.M., quartile deviation, standard deviation and variance and respective relative measures for Ungrouped data. Computation of various measures of dispersion Range, mean deviation from A.M., quartile deviation, standard deviation and variance and respective relative measures for Grouped data. Computations of Measures of Skewness & Kurtosis (Grouped Data). Computations of Measures of Skewness & Kurtosis (Ungrouped Data).

Computations of Karl Pearsons coefficient of correlation with its test of significance and Spearman's rank correlation, Fitting of simple linear regression equation for prediction with test of significance of regression coefficient.

Problems on one sample, two Sample and paired t-test, Chi-Square test of Goodness of Fit. Chi-square test of independence of Attributes.

Analysis of Variance: Analysis of Variance one way classification (CRD).

Selection of random sample using simple random sampling.

Lecture	Topics	Weightage
No.		(%)
1-2	Introduction: Definition of statistics and its applications in Home Science,	4
	limitations, types of data, classifications and frequency distribution and	
	tabulation of data, qualitative and quantitative classification, discrete and	
	continuous variables, frequency tables, grouped and ungrouped data.	
3-4	Graphical presentation: One and two dimensional diagrams with	6
	applications. Histogram, frequency curve, frequency polygon, frequency	
	curve, cumulative frequency curve (ogive curve)	
5-6	Measures of central tendency: Basic concepts of logarithms, Arithmetic	6
	mean, median, mode, GM, HM, weighted average, percentiles and	
	deciles, its merits and demerits. Relationship between AM, GM and HM,	
	Characteristics of ideal measure (grouped and ungrouped data)	
7-8	Measures of Dispersion: Range, mean deviation from A.M., quartile	6
	deviation, standard deviation and variance and respective relative	
	measures (grouped and ungrouped Data).	

9-10	Moments, relationship between raw moments and central moments	4
	(grouped and ungrouped Data).	
11-12	Measures of skewness and kurtosis, definitions of symmetrical	4
	distribution, relationship between mean, median and mode and between	
	quartiles for symmetrical and skewed distributions.	
13-14	Probability: Definition of random experiment, sample space, events,	5
	simple, mutually exclusive, equally likely events, complimentary and	
	independent events, conditional probability, permutations and	
	combinations, Random variable, Definition of probability (mathematical,	
	statistical, axiomatic), and related terms, addition and multiplication	
	theorem (without proof). Simple problems based on probability.	
15-16	Correlation: Bivariate data scatter diagram, Definition of correlation, Karl	8
	Person coefficient of correlation, its properties and test of significance,	
	Spearman's Rank correlation coefficient. Problems based on correlation	
17-18	Regression: Definition of Regression, Simple linear regression of Y on X	10
1, 10	and X on Y and its properties, fitting and test of significance of regression	10
	coefficient, comparison and relation between correlation and regression	
	coefficients. Problems based on regression.	
19-20	Test of Significance: Introduction to statistical inference, Tests of	5
17 20	significance, basic definitions, hypothesis, testing of hypothesis null and	3
	alternative hypothesis, tests statistic, types of errors, degrees of freedom,	
	level of significance, critical region, steps in testing of hypothesis	
21-22	't' test: one sample and two sample t-test for equality mean and paired t-	6
21 22	tests	O
23-24	Chi-square test of goodness of fit and independence of attributes.	6
25-26	Probability distributions: Discrete and continuous probability	4
23 20	distributions, definition of random variable, discrete and continuous	
	random variables probability distribution of random variable, concepts of	
	discrete and continuous probability distribution (probability mass and	
	density function)	
27	Basic concept of binomial theorem, binomial distribution, formula,	5
21	properties and its applications	3
28	Poisson Distribution formula, properties and its applications	5
29	Normal distribution formula, Normal Curve properties, Standard normal	5
<i>_</i> ,	distribution and its applications.	3
•	Analysis of variance–Introduction and definition of ANOVA,	6
30	marysis of variance-introduction and definition of ANOVA,	U
30	assumptions of ANOVA assignable and non-assignable factors analysis	
30	assumptions of ANOVA, assignable and non-assignable factors, analysis	
31-32	assumptions of ANOVA, assignable and non-assignable factors, analysis of one way classified data (CRD). Sampling: Definitions of population, sample, parameter, statistic, need of	5

random, stratified and multistage sampling methods. Simple random sampling with and without replacement. Use of random number tables for	
selection of simple random sample.	
Total	100

Exercise	Title
No.	
1	Graphical presentation: Graphical & Diagrammatic representation of data, one
	and two dimensional diagrams. Simple, multiple components and percentage bar
	diagrams, pie-diagram, and histogram. Frequency polygon, frequency curve, gives.
2	Measures of central tendency: Computation of Arithmetic Mean, Median, mode,
	geometric mean, harmonic mean, quartiles, deciles and percentiles for Ungrouped
	data
3	Computation of Arithmetic Mean, Median, mode, geometric mean, harmonic
	mean, quartiles, deciles and percentiles for grouped data
4	Measures of Dispersion: Computation of various measures of dispersion Range,
	mean deviation from A.M., quartile deviation, standard deviation and variance and
	respective relative measures for Ungrouped data.
5	Computation of various measures of dispersion Range, mean deviation from A.M.,
	quartile deviation, standard deviation and variance and respective relative measures
	for Grouped data.
6	Computations of Measures of Skewness & Kurtosis (Grouped Data).
7	Computations of Measures of Skewness & Kurtosis (Ungrouped Data).
8-9	Correlation: Computations of Karl Pearson's coefficient of correlation with its test
	of significance and Spearman's rank correlation
10-11	Regression: Fitting of simple linear regression equation for prediction with test of
	significance of regression coefficient.
12-13	Test of Significance: Problems on one sample, two Sample and paired t-test.
14	Chi-Square test of Goodness of Fit. Chi-square test of independence of Attributes.
15	Analysis of Variance: Analysis of Variance one way classification (CRD).
16	Sampling: Selection of random sample using simple random sampling.

Suggested Readings

1. Text Books

- 1. Nageshwar Rao G.(2007)Statistics for Agriculture Sciences New Delhi : BS Publications
- 2. Rangaswami R. (2009)A Text book of Agriculture Statistics New Age International (P) Limited, Hyderabad

2. Reference Books

- 1. Elhance, D.N. (1964) Fundamentals of Statistics Kitab Mahal, Wholesale Division,
- 2. Gupta, S.C and V.K. Kapoor (1971). Fundamentals of Mathematical Statistics Sultan Chand and Sons, New Delhi- 110 002

- 3. Hall and Knight (2013) Higher Algebra Arihant publication, New Delhi
- 4. Kapoor V.K. (2007). Fundamentals of Applied statistics by Sultan Chand and Sons, New Delhi- 110 002
- 5. Kapoor and Saxena. Mathematical Statistics Sultan Chand and Sons, New Delhi
- 6. Panse V.G. Sukhatme P.V. (1985) Statistical methods for Agricultural workers by Indian Council of Agricultural Research New Delhi.
- 7. Snedecor GW. & Cochran WG. (1989). Statistical Methods Iowa State University Press.

Title Communication Skills and Personality Development Semester IV

Theory

Communication Skills- Meaning and Process of Communication, Verbal and Nonverbal Communication, Public Speaking, Individual Presentation, Group Discussion, Seminars and Conferences, Impromptu Presentation. Writing Skills- Precise Writing, Summarizing, Abstracting, Listening and Note Taking, Field Diary and Lab Record, Indexing, Footnote and Bibliographic Procedures, Recent Advances in Communication- Role of ICT in Communication, Print and Electronic Media, Internet, e-mail, fax, mobile, Interactive, video and teleconferencing, e-governance, Personality Development- Meaning and definition of Personality, Factors effecting Personality, Personality Traits, Theoretical perspectives on personality – Behavioural trait & humanistic personality pattern, Moulding the personality patterns, Personality development – Self perception, self concept, self esteem & gender stereotyping, Persistence and changes in personality determinants (physical, intellectual, emotional, social, educational & family), Aspiration, achievements & fulfilment, Dressing for formal & informal occasions.

Practical

Listening and Note Taking, oral Presentation Skill, Individual and group Presentation, Impromptu Presentation, Writing Skill, Field Diary and Lab Record, Indexing, Footnote and Bibliographic Procedures, Precise Writing, Summarizing, Abstracting, Developing questionnaire to study impact of physique, educational institutions, aspirations on personality, Developing questionnaire to study social prescriptions, gender & family on personality, aspiration & presentation, Case study of an individual suffering with personality disorders.

Lecture	Topics	Weightage
No.		(%)
	Communication Skills	
1	Meaning and Process of Communication	2
2	Verbal and Nonverbal Communication	2
3, 4	Public Speaking, Impromptu Presentation	4
5, 6	Individual Presentation, Group Discussion, Seminars and	4
	Conferences	
	Writing Skills	
7	Precise Writing, Summarizing, Abstracting	4
8, 9	Listening and Note Taking, Field Diary and Lab Record	4
10	Indexing, Footnote and Bibliographic Procedures	4
	Recent Advances in Communication	
11	Role of ICT in Communication	4
12, 13	Print and Electronic Media	4
14, 15	Internet, e-mail, fax, mobile	4
16, 17	Interactive, video and teleconferencing	4
18, 19	e-governance	4
	Personality Development	

20	Meaning and definition of Personality	2
21	Factors effecting Personality	2
22	Personality Traits	4
23, 24	Theoretical perspectives on personality – Behavioural trait &	4
	humanistic personality pattern	
25, 26	Moulding the personality patterns.	4
27, 28, 29	Personality development - Self perception, self concept, self	6
	esteem & gender stereotyping	
30, 31, 32	Persistence and changes in personality determinants (physical,	6
	intellectual, emotional, social, educational & family)	
33, 34	Aspiration, achievements & fulfilment.	4
35, 36	Dressing for formal & informal occasions.	4
	Total	100

Exercise	Title
No.	
1	Listening and Note Taking
2 & 3	Oral Presentation Skill
4 &5	Individual and group Presentation
6	Impromptu Presentation
7&8	Writing Skill, Field Diary and Lab Record, Indexing, Footnote and
	Bibliographic Procedures
9	Precise Writing,
10	Summarizing, Abstracting
11&12	Developing questionnaire to study impact of physique, educational institutions,
13	Developing questionnaire to study impact of aspirations on personality
14	Developing questionnaire to study social prescriptions, gender & family on
	personality, aspiration & presentation
15 & 16	Case study of an individual suffering with personality disorders.

Suggested Readings

1.Text Books

- 1 Berk, E. L. (2013). Exploring life span development.3rdedn. McGraw Hill, New York.
- 2 Duane Schultz and Sydney Schultz (2009) Theories of Personality. Wadsworth Cengage Learning, US.
- 3 Helen Bee and Denise Boyd. (2004) The developing child. 10th edn. Pearson Education Pte. Ltd., Indian Branch, New Delhi, India
- 4 Richard Lerner Easter brooks M.A. and Jayanthi Mistry (2010) Handbook of Psychology. John Wiley & Sons. Inc.
- 5 Schultz D.P. and Schultz S.E. (2009) Theories of Personality .9th Edn. Wadsworth Cengage Learning, US.
- 6 William Damon (1983) Social and Personality Development- Infancy through Adolescence. W.W. Norton & Company, Inc. New York

2.Reference Books

- 1 Theodore Million, Seth Grossman, Carrie Millon, Sarah Meagher and Rowena Ramnath. (2009).Personality disorders in modern life. John Wiley & Sons.
- 2 Dale Carnegie (2008) Speak more effectively. Dale Carnegie & Associates, Inc.
- 3 Linda Brannon (2010) Gender: Psychological Perspective, 6th Edn. Pearson.
- 4 Arina Nikitina (2011) Successful public Speaking. Bookboon.com

Course No. PHY EDU 241 Title Physical Education and Yoga Practices Credits 2(0+2) Semester IV Practical

Introduction to physical education- definition, objectives, scope, and importance; physical culture; Warming up - General Warming down - General , Meaning and importance of Physical Fitness and Wellness; Physical fitness components -speed, strength, endurance, power, flexibility, agility, coordination and balance; Methods of Training; aerobic and anaerobic exercises , weight training, circuit training , Interval training, Fartlek training , Effects of Exercise on Muscular, Respiratory, Circulatory & Digestive systems , Need and requirement of first aid. Surya namaskar , Skill of Volleyball, Rules & Regulation , Advance Skill of Volleyball, Specific Warming up , Meditation , Skill of Athletics, Short Distance running , throwing event.

Yoga; Introduction to - Asanas,(Practical NO.1&2) Ashtang Yoga Steps & meaning, (Yam,Niyam,Asan,Pranayam,Pratyahar, Dharana, Dhayhan Samadhi) Padmasan, Pavanmuktasan, pashchimottanasan, Dhanurasan, halasan, matsyasam, shalabhasan, bhujangasan, Matsyendrasan, Vakrasan, Uttanasan, Makavasan, Gomukhasan, Garudasan, Vrukshasan, Santulasan, Paadhastasan, Trikonasan, Vajrasan, Ushtrasan, Chakrasan, Sarvangasan, Shavasan.

Practical Exercises

Exercise	Title
No.	
1&2	Introduction to physical education- definition, objectives, scope, and importance;
	physical culture; Warming up - General Warming down - General
3&4	Meaning and importance of Physical Fitness and Wellness; Physical fitness
	components -speed, strength, endurance, power, flexibility, agility, coordination
	and balance;
5&6	Methods of Training; aerobic and anaerobic exercises;
7&8	weight training, circuit training,
9&10	Interval training, Fartlek training;
11&12	Effects of Exercise on Muscular, Respiratory, Circulatory & Digestive systems
13&14	Need and requirement of first aid.
15&16	Yoga; Introduction to - Asana,
17&18	Yoga Introduction to Asana
19&20	Yoga Introduction to Pranayama
21&22	Surya namaskar
23&24	Skill of Volleyball, Rules & Regulation
25&26	Advance Skill of Volleyball, Specific Warming up
27&28	Meditation
29&30	Skill of Athletics, Short Distance running
31&32	Skill of Athletics Throwing events

Suggested Readings

1.Text Books

- 1 Aneja O.P. Encyclopaedia of Physical education, sports and exercise science (4 volumes).
- 2 Chaudhery N V and Jain. R Encyclopedia of Yoga Health and Physical Education (7 Volumes).
- 3 Modak P, Sharma, and O P Jain. D Encyclopedias of Sports and Games with latest rules and regulations (8 volumes).
- 4 Sharma A. Encyclopaedia of Health and Physical Education (7 Volumes).

2.Reference Books

- 1 Deborah A. Wuest, and Charles A. Bucher Foundations of Physical Education, Exercise Science, and Sport
- 2 Edwin F Bryant. Yoga sutra of Patanjali.
- 3 Jain D (2011) Physical Education and Recreational Activities,
- 4 Jadhav K. G., Pagare S. B., and Singh S. K. (2011) Research Process In Physical Education And Sports
- 5 Karad P. L. (2011) Tests, Measurement and Evaluation in Physical Education
- 6 Singh S. K. (2011) Sports Training and Biomechanics in Physical Education
- 7 Sharma Anil (2011) Dimensions of Physical Education,
- 8 Vijaya Lakshmi (2005) Physical Fitness

Course No. EDNT 242 Title Educational Tour II (India)

Credits 1 (0+1) Semester IV

Educational tour is compulsory for students. This educational tour is to provide first hand experiences of educational and historical places associated/ related to the curriculum. The tour will be conducted in any part of India.

Course No. EHP 351 Title Elementary Human Physiology

Credits 3(2+1) Semester V

Theory

Physiological process, structural and functional basis of human body. Skeletal system, Muscular system and joints. Functions of brain and spinal cord. Nerve impulse reflex action and sense organs. Composition and functions of blood ,lymph. Blood circulation, blood pressure, pulse and heart sounds, functions of heart. Respiratory apparatus, mechanism of respiration, respiratory rates, volume and transport of gases. Physiology of kidney and skin. Physiology of digestion, digestive enzymes and their functions. Functions of liver. The location, secretions and function of various endocrine glands. Male reproductive system and its functions. Female reproductive system and its functions. Pregnancy, persecution and milk secretion.

Practical

Skeletal system of mammal. Hematology- R.B.C. W.B.C. T.L.C D.L.C. Estimation of hemoglobin in blood. Heartbeat ,heart sound and pulmonary function test. Measurement of blood pressure. Respiratory quotient and lung function test. Measurement of O₂ and CO₂ at various partial pressure in lungs. Reproductive cycle-menstruation and estrous cycles, Fertility test.

Lecture	Topics	Weightage
No.		(%)
1 & 2	Physiological process, structural and functional basis of human	7
	body	
3 & 4	Skeletal system	6
5 & 6	Muscular system and joints	6
7,8 & 9	Functions of brain and spinal cord	6
10 &11	Nerve impulse reflex action and sense organs	6
12 & 13	Composition and functions of blood ,lymph	6
14 &15	Blood circulation, blood pressure, pulse and heart sounds,	6
	functions of heart	
16,17 &18	Respiratory apparatus, mechanism of respiration, respiratory	7
	rates, volume and transport of gases	

19,20 & 21	Physiology of kidney and skin	6
22, 23 & 24	Physiology of digestion, digestive enzymes and their functions	6
25	Functions of liver	6
26, 27 & 28	The location, secretions and function of various endocrine	7
	glands	
29	Male reproductive system and its functions	7
30	Female reproductive system and its functions	7
31	Pregnancy,	6
32	Persecution and milk secretion	5
	Total	100

Exercise	Title
No.	
1	Skeletal system of mammal
2	Haematology- R.B.C
3	W.B.C.
4	T.L.C
5	D.L.C
6,7 & 8	Estimation of haemoglobin in blood
9	Heartbeat ,heart sound and pulmonary function test
10	Measurement of blood pressure
11	Respiratory quotient and lung function test
12&13	Measurement of O ₂ and CO ₂ at various partial pressure in lungs
14 & 15	Reproductive cycle-menstruation and oestrous cycles,
16	Fertility test

Suggested Readings

1.Text books

K.Sembulingam and Prema Sembulingam (2005) Essentials of Medical Physiology Third Edition Published by Jaypee Brothers medical Publishers (P) Ltd, New Delhi

2. Reference Books

Anne Waugh Allison Grant (2014) Anatomy and Physiology in Health and Illness 12th Edition Churchill Livingstone, 28thApril 2014Page Count: 522

Title Economics and Marketing Semester V

Theory

Economic: Meaning – Definition, subject matter of Economics: Economic activities, (Wants, efforts, satisfaction), Basic Terms, Goods (Classification, types) utility – Meaning – forms of utility, value, wealth, and Consumption – Meaning, types of consumption, Engels law, factors affecting consumption, Consumption, demand and supply. Factors affecting production. Gross Domestic Product (GDP) – Role of Community Development Projects in National GDP. Market & Marketing – Definition, marketing process, need for marketing, role of marketing, marketing functions, classification of markets, marketing of various channels, price spread, marketing efficiency, integration, constraints in marketing, market intelligence, bank norms, insurance, SWOT analysis, crisis management. Techno-economic parameters for preparation of projects and basic guidelines for preparation of project report.

Practical

Techno-economic parameters for preparation of project. Preparation of bankable projects for various products and its value added products. Identification of marketing channel, calculation of price spread, identification of market structure and visit to different markets.

Lecture	Topics	Weightage
No.		(%)
1 & 2	Economic: Meaning – Definition: Adam smith, Marshall, Robbins	8
	subject matter of Economics: Economic activities, (Wants, efforts,	
	satisfaction),	
3 & 4	Basic Terms, Goods (Classification, types) utility – Meaning – forms	8
	of utility, value, wealth, and	
5 & 6	Consumption – Meaning, types of consumption, Engels law, Standard	6
	of living, factors affecting consumption	
7 & 8	Demand – Meaning definition, kinds of demand, demand schedule,	6
	demand curve, Law of demand, exception to law of Demand,	
	Extension and Contraction, increase and decrease in demand.	
9 & 10	Elasticity of demand – Meaning, types & methods of measurement of	4
	elasticity of demand (3 methods), factors affecting elasticity of demand	
11 & 12	Supply – Definition, Kinds of supply, Supply schedule Law of Supply,	6
	Extension & Contraction of supply, Increase & decrease of supply,	
	factors affecting supply.	
13 & 14	Elasticity of supply – Meaning elastic, inelastic supply, measurement	4
	of elasticity of supply & its importance.	
15	Production – Meaning factors of production: Land, Labour, Capital	4
	&Management	

	Total	100
	Crisis management – meaning, importance.	
31 & 32	SWOT – Analysis – related to Community Development projects,	4
	Bank norms, insurance – Definition, meaning its importance	
	feasibility, managerial aspects and project benefits.	
	commercial feasibility, cost estimates, finance (Requirement), financial	
	overview of project, project description, technical feasibility,	
29 & 30	Basic guidelines for preparation of project proposals – Introduction,	8
28	Project : Meaning, Definition, types of projects, project cycles	4
27	Market intelligence – meaning and its importance	4
	spread – meaning, marketing efficiency, constraints in marketing.	
25 & 26	Marketing channels – Meaning, and types of marketing channels, price	8
24		
22 & 23,	Classification of Markets, Marketing functions and it's Classification.	10
	scope of Marketing.	
20 & 21	Market – Meaning, Definition, marketing, meaning, definition, Role &	4
18 & 19	Role of Community Development Projects in the National Income.	4
	Methods of measurement of National Income its Importance.	
16 & 17	National Income – Concepts of National Income: GNP, NNP, PI	8

Exercise	Title	
No.		
1&2	Techno-economic parameters for preparation of Community Development projects	
3-5	Preparation of bankable proposal for Community Development Projects	
	(Statements)	
6&7	To study different – marketing channels.	
8-10	To study price spread and producer's share in consumer's rupees, marketing cost	
	& margin for different products.	
11 & 12	To study the market structure	
13 & 14	Visit to various markets in the area	
15 & 16	Visit to different market institutions	

Suggested Readings

1. Text Books

- 1. Acharya, S.S. and Agrawal, N.L. (2008), Agricultural marketing in India Oxford and IBN Publishing Company Pvt. Limited, New Delhi
- 2. K K Dewett and Varma, (2013) Elementary Economic Theory, S. Chand and Company Pvt. Limited Ramnagar, New Delhi

2. Reference Books

1. Barde S.D & Karmakar, K.G. (1995), Agricultural project management for banks

- Popular Prakashan Pvt. Limited Mumbai
- 2. Dewett, K K (2009) Modern Economic Theory, S. Chand Company Pvt. Limited Ramnagar, New Delhi.
- 3. Reddy S.S, Raghuram, P., Neel Kanta Shastri, (2016), Agricultural Economics Oxford and IBN Publishing Company Pvt. Limited. New Delhi.
- 4. Reddy S.S, Raghuram, P. (2015), Agriculture Finance and Management Oxford and IBN Publishing Company Pvt. Limited, New Delhi.

CORE COURSES

DEPARTMENT OF HUMAN DEVELOPMENT AND STUDIES

Course No. HDS 111 Title Fundamentals of Human Development
Credits 3 (2+1) Semester I

Theory

Human development as a field of study. History of study of human development, scope and importance of study of human development from a life-span perspective. Latest issues in human development. Growth and Development, definition of growth and development, difference between growth and development, determinants of human growth and development; principles of human growth and development. Genetic basis and concepts associated with human life. Stages of human development, domains of human development and its importance. Theories of human development: Naturalism, Environmentalism, Maturational, Psycho-social, Ecological, Ethological, Cognitive, Social, Psychoanalytical, Language and Moral research involving humans. Definition of ethics and research, practical and ethical principles and concerns in research with human subjects, research designs and methods of data collection- their merits and demerits, variables, hypothesis, sampling, operational definitions.

Practical

Understanding about stages of human life span and domains of wholesome development; Assessment of domains of development; Latest issues in human development; Interviewing adolescents for studying their interests, A study on problems encountered by the senior citizens; Planning of research designs- objectives, methodology, variables etc, preparation of resource file.

Lecture	Topics	Weightage
No.		(%)
1	Orientation to the course contents	
	Significance of studying human development	2.5
2	History of study of human development	5.0
3	Importance of studying human development from a life span	5.0
	perspective	
4	Latest issues in human development	5.0
5	Definition of growth and development, difference between growth and	2.5
	development, determinants of human growth and development	
6	Principles of human growth and development	5.0
7	Genetic basis and concepts associated with human life	2.5
8	Stages of human development; domains of human development and its	5.0
	importance	
9	Physical development and its aspects	2.5
10	Motor development : Gross & fine motor skills, Hand skills & leg	2.5
	skills	
11	Speech & Language development: Essential tasks for learning to speak	2.5
12	Intellectual development: Development of brain and mental process	2.5
13	Social development: Process of socialization	2.5

14	Emotional development: Emotional developmental pattern	2.5
15 - 16	Moral development: Common disciplinary methods and its influences	2.5
	on children	
17	Theory of human development : Naturalism	2.5
18	Theories of human development: John Watson, B.F. Skinner	5.0
19	Theory of maturation: Arnold Gesell	2.5
20	Ecological theory: Urie Bronfenbrenner	2.5
21	Ethological theory of attachment: John Bowlby	2.5
22	Cognitive development theory: Jean Piaget	2.5
23	Social learning theory :Albert Bandura	2.5
24	Psychoanalytical theory : Sigmund Freud	2.5
25	Psycho-social theory: Erik Erikson	2.5
26 - 27	Theory of language development: Lev Vygostsky, Noam Chomsky	2.5
28	Theory of moral development: Lawrence Kohlberg	2.5
29	Definition of ethics and research, practical and ethical principles and	5.0
	concerns in research with human subjects	
30	Research designs and methods of data collection- their merits and	5.0
	demerits	
31	Research Variables	5.0
32	Types of sampling in research	5.0
	Total	100

Exercise No.	Title
1	Understanding about stages of human life span.
2	Understanding about domains of human wholesome development.
3	Understanding about physical growth pattern of children and adolescents.
4	Assessment of motor developmental milestones of children.
5	Assessment of emotional maturity of adolescents(Emotional Maturity Scale of Singh
	and Bhargava).
6	Report writing on emotional maturity of adolescents.
7	Assessment of social maturity of children (Vineland Social Maturity Scale for
	Children).
8	Report writing on social maturity of children.
9	Educational video film on Gender discrimination and ill effects of female feticide .
10	Educational video film on Stimulatory home environment for infants and toddlers.
11	A study on latest issues in human development (Gender discrimination in child
	upbringing practices adopted by the families).

12	Report writing on gender discrimination in child upbringing practices adopted by the
	families).
13	A case study of adolescents to know about their common interests.
14	Report writing on common interests of adolescents.
15	Planning of research designs- objectives, methodology, variables etc.
16	Completion of practical records and its submission.

Suggested Readings

1.Text books

- 1. Berk E.B. (2011) Child development. 8th ed . PHI Learning Private Ltd, New Delhi.
- 2 Berk, E. L. (2013). Exploring life span development.3rded. McGraw Hill, New York.
- 3. David, M.T., Garavan, L. and Dooley, M. (2012). Fundamentals of human resource development. Sage Publications Ltd.
- 4. Santrock, J. (2012). Life span development. 14thed. McGraw Hill, New York.

2. Reference Books

- 1. Bronfenbrenner, V. (1979). The ecology of human development. Cambridge, Harvard
- 2. Garbarino, J. (1982). Children and families in the social environment. Aldine, New York.
- 3. Hall, Calvin S and Lindzey. G. (1978). Theories of personality. John Wiley and Sons.
- 4. Harris, J.R. and Liebert, R.M. (1987). The child. Prentice Hall, Inc.
- 5. James, M. and Nelson. (2009). Fundamentals of human development, religion, and
- 6. Munsinger, H. (1971). Fundamentals of child development. Holt, Reinhart and Winston, New York.
- 7. Papalia, D.E. and Olds, SW. (2008). Human development. 11thed. McGraw Hill,
- 8. Parke, R.D. (Ed). (1984). Review of child development research. Volume 7: The family. spirituality. Oxford Higher Education. Univ. Press. University of Chicago Press, Chicago.

3.e-Books

- 1 Douglas A.K. and Francis A.G.(2017) Leisure and Human Development. Sagamore Publishing LLC .https://www.amazon.com/Leisure-Experience-Human Development/0813331498
- **2** Mayuri K.and Khadi P.(2012) Life Span Development-I e-Home Science Courseware. http://ecourses.iasri.res.in/
 - 3 Saradadevi M and Prarthana P.(2012) Life Span Development-II e-Home Science Courseware. http://ecourses.iasri.res.in/

Course No. HDS 122 Credits 3 (2+1)

Title Marriage and Family Dynamics Semester II

Theory

Introduction about marriage – definition; purposes, goals, functions; Readiness for marriagedefinition; significance, areas, identifying characteristics of readiness for marriage; Mate selection: meaning; theories, criteria, mode/methods, mate selection in tribal India; factors responsible for wrong mate selection-; Engagement – concept, significance; marital roles and behaviours- definition, significance; marriage status and role transition- determinants of marital role behavior, Concept on gender roles, factors responsible in changes; Marital adjustment-definition, areas, influencing factors, types of marital relations and adjustments, marital adjustment over the family life cycle, obstacles, Improving marital adjustment, techniques; marital success and criteria; marital dissolution definition, grounds for dissolution-causes for legal marital dissolution- Consequences of divorce, type of adjustments; factors for refraining from marriage failure; alternatives to marriagesinglehood, heterosexual cohabitation/ consensual union, homosexual union, reasons:. effects; Family-definition- functions- family structure and forms- changes in family structure; alternate forms of the Family. Causes-Effects; Family life cycle- definition, stages, developmental tasks; Family Stress- definition, types, causes, effects, symptoms of stress; Family Crises- definition causes- stages of a crisis- effects, management; laws and acts; Counselling –definition, objectives, importance, areas, types- premarital counseling, marital and family process and effects; Dynamics of population- definition, need of population education, causes consequences - remedial measures and devises of population control.

Practical

Views of youth towards marriage and readiness for successful marriage, Study of matrimonial advertisements published in popular daily news papers, Merits and demerits of love cum arranged marriages, Merits and demerits of types of family, Marital conflicts and causes: remedial measures adopted by the married couples, Laws and acts related to marriage and family, Celebration of national and international days, Feature films on dynamics of marriage & family, Role of mass media in educating youth about facts for successful marital life, Effects of population explosion on individuals and nation, Role of women in building small families.

Lecture	Topics	Weightage
No.		(%)
1 &2	Introduction about marriage – definition; purposes, goals, functions,	5.0
	forms of marriages and rituals and ceremonies.	
3&4	Readiness for marriage- definition; significance, areas,	7.5
	identification, characteristics of readiness for marriage.	
5 &6	Mate selection- meaning, theories, criteria, mode/methods, mate	5.0
	selection in tribal India, factors responsible for wrong mate	
	selection.	
7	Engagement – concept, significance.	2.5
8& 9	Marital roles and behaviours- definition, significance;	7.5
	marriage status and role transition, determinants of marital role	
	behavior, concept on gender roles, factors responsible in changes.	

10& 11	Marital adjustment-definition, areas, influencing factors, types of	7.5
	marital relations and adjustments.	
12 &13	Marital adjustment over the family life cycle, obstacles, improving	5.0
	marital adjustment, techniques and criteria of marital success.	
14 & 15	Marital dissolution - definition, grounds for dissolution-causes for	7.5
	legal marital dissolution, consequences of divorce, type of	
	adjustments, factors responsible for refraining from divorce.	
16	Alternatives to marriage- reasons and effects.	7.5
17, 18	Family –definition, functions, family structure and forms, changes in	7.5
&19	family structure.	
20 & 21	Alternate forms of the family, causes and effects.	5.0
22&23	Family life cycle- definition, stages and developmental tasks.	5.0
24&25	Family stress- definition, types, causes, effects and symptoms.	5.0
26& 27	Family crises- definition, causes, stages, effects and management.	5.0
28 & 29	Laws and Acts	5.0
30	Counselling – definition, objectives, importance, areas, types,	5.0
	process and effects.	
31&32	Dynamics of population- definition, need, causes, consequences,	7.5
	remedial measures and population control devises.	
	Total	100

Exercise	Title
No.	
1	Views of youth towards marriage and readiness for successful marriage – Personal interviews for data collection.
2	Views of youth towards marriage and readiness for successful marriage – Data pooling, tabulation and discussing results.
3	Study of matrimonial advertisements published in popular daily news papers
4	Merits and demerits of love cum arranged marriages - Group discussion and report writing
5	Merits and demerits of nuclear family - Group discussion and report writing
6	Merits and demerits of joint family- Group discussion and report writing
7	Marital conflicts, causes and remedial measures adopted by the married couples— Personal interviews for data collection

8	Marital conflicts, causes and remedial measures adopted by the married couples-
	Data pooling, tabulation and discussing results
9	Laws and acts related to various aspects of marriage, adoption and maintenance
10	Laws and acts related to violence against women and children
11	Celebration of national and international days
12	Feature films on dynamics of marriage & family- issues related to Reproductive
	system, female feticide, mate selection etc Group discussion and report writing
13	Feature films on dynamics of marriage & family- issues related to adoption, women
	exploitation etc Group discussion and report writing
14	Role of mass media in educating youth about facts for successful marital life- Group
	discussion and report writing
15	Effects of population explosion on individuals and nation- Group discussion and
	report writing
16	Role of women in building small families- Group discussion and report writing.

Suggested Readings

1.Text books

- 1 Kapadia. K.M. (1966). Mariage and family in India. 3rded. Oxford university press, Kolkata.
- 2 Rice F P (1990), Intimate relationships, marriages and families, Mayfield Publishing Company.
- 3 Stinnett Nick, Walters James and Kaye Evelyn(1998), Relationships in marriage and family, 2nd edition, Macmillan company, New York.

2.Reference Books

- 1 Adams B.N. (1980). The family: A sociological interpretation. 3rded. Rand McNally College Publishing Company, Chicago.
- 2 Ahuja, R. (2005).Indian social system.Rawat publication. New Delhi.
- 3 Benokraitis.V.N. (2014).Marriage and families.8th ed. Pearson publication.
- 4 Goode, W.J. (1989). The family. New Delhi: Prentice Hall of India Private Limited.
- 5 Gordon Michael (ed). (1972). The nuclear family in crises. The search for an alternative.New York: Harper and Row Publishers.
- 6 Hate, C.A. (1969). Changing status of woman. Allied publishers, New Delhi.
- 7 Kenkel, W.F. (1973). The family in perspective. Meredith Corporation, New York.
- 8 Kumar, R. (2000). Violence against women. Anmol publication pvt ltd., New Delhi.
- 9 Murli Desai (1994), Family and intervention- A course compendium, Tata Institute of Social Sciences, Deonar, Mumbai.
- 10 Nye, I.(1973). The family: Its structure and interaction. MacMillan Publishing Company, New York.
- 11 Sing K (1984), Religion and Society, Prakashan Kendra, Railway crossing Road, Sitapur Road, Lucknow.

3. e-Books

- 1 Sarada Devi and Pushpa Khadi (2012), Family Counselling, e-Home Science Courseware, http://ecourses.iasri.res.in/.
- 2 Mayuri K and Ritu Singh (2012), Dynamics of Marriage and Family, e-Home Science Courseware, http://ecourses.iasri.res.in/.
- 3 Nick & Nancy Stinnett and Joe & Alice Beam (1999), Fantastic Families: Six Proven Steps to Building a Strong Family, http://www.familydynamics.net/bookstore.
- 4 Ron L. Deal, Smart Stepfamilies DVD Course (set of 1 DVD & 1 book), http://www.familydynamics.net/bookstore.

Title Life-Span Development Semester III

Theory

Prenatal, perinatal and postnatal stages- Issues and scientific concepts associated with conception, pregnancy, prenatal development, labour/ birth process ,birth complications, postnatal life- neonatal care, Physical development/characteristics in infancy, early childhood, middle childhood, adolescence and in adulthood-its antecedent influences; Motor development in infancy, early childhood and in middle childhood- its antecedent influences; Cognitive development in infancy, early childhood, middle childhood and in adolescence- its antecedent influences; Speech & Language development in infancy, early childhood, middle childhood- its antecedent influences; Social development in infancy, early childhood, middle childhood and in adolescence- its antecedent influences; Emotional developmentin infancy, early childhood, middle childhood and in adolescence- its antecedent influences; Stimulating approaches for optimizing development. Developmental tasks during the life span, Adulthood- Important changes and coping up strategies, Recent issues in growth and development –Life span approach.

Practical

Observational visits to well-baby clinic/ Civil hospital- Maternity wards, NICU; Observation of full term and preterm babies; Rating of developmental tasks of infants, preschoolers, school going children, adolescents, adults and elderly persons; Assessment of growth of children; Assessment of home environment of family; Assessment of mental and motor development of infants; Assessment of IQ of children; Educational video films related to the course; preparation of resource files.

Lecture	Topics	Weightage
No.		(%)
1	Orientation to the course contents	
	Prenatal, perinatal and postnatal stages of human life span	2.5
2	Issues and scientific concepts associated with conception, pregnancy, prenatal development	5.0
3	Birth process and birth complications	5.0
4	Postnatal life- Neonatal care	5.0
5	Physical development in infancy and in early childhood -its antecedent	5.0
	influences	
6	Physical development in middle childhood - its antecedent influences	5.0
7	Physical development in adolescence -its antecedent influences	5.0
8	Motor development in infancy and in early childhood -its antecedent influences	5.0
9	Motor development in middle childhood - its antecedent influences	2.5
10	Cognitive development in infancy -its antecedent influences	2.5
11	Cognitive development in early childhood and in middle childhood -its antecedent influences	2.5
12	Cognitive development in adolescence- its antecedent influences	2.5
13	Speech & Language development in infancy -its antecedent influences	2.5
14	Speech & Language development in early childhood - its antecedent	2.5

	influences	
15	Speech & Language development in middle childhood- its antecedent	2.5
	influences	
16 -17	Social development in infancy, and in early childhood, -its antecedent influences	2.5
18	Social development in middle childhood - its antecedent influences	5.0
19	Social development in adolescence- its antecedent influences	2.5
20 - 21	Emotional development in infancy, and in early childhood -its antecedent influences	2.5
22	Emotional development in middle childhood -its antecedent influences	2.5
23	Emotional development in adolescence- its antecedent influences	2.5
24	Stimulating approaches for optimizing development	2.5
25	Developmental tasks during infancy, early childhood and middle	2.5
	childhood	
26	Developmental tasks during adolescence	2.5
27	Developmental tasks during adulthood	2.5
28	Adulthood-Important changes and coping up strategies in early	2.5
	adulthood	
29	Adulthood- Important changes and coping up strategies in middle adulthood	5.0
30	Adulthood- Important changes and coping up strategies in late adulthood	5.0
31	Recent issues in growth and development –Life span approach (Infancy	2.5
	and Childhood)	
32	Recent issues in growth and development -Life span approach	2.5
	(Adolescence and Adulthood)	
	Total	100

Exercise No.	Title
1	Observational visits to well-baby clinic/ Civil hospital- Maternity wards
2	Observational visits to well-baby clinic/ Civil hospital- NICU
3	Observation of full term babies (Clinical / Home set-up)
4	Observation of preterm babies(Clinical / Home set-up)
5	Rating of developmental tasks of infants (5 point scale)
6	Rating of developmental tasks of preschoolers (5 point scale)
7	Report writing on developmental tasks of infants and preschoolers
8	Rating of developmental tasks of school going children (5 point scale)
9	Report writing on developmental tasks of school going children
10	Rating of developmental tasks of adolescents (5 point scale)
11	Report writing on developmental tasks of adolescents

12	Rating of developmental tasks of adults and elderly persons(5 point scale)
13	Report writing on developmental tasks of adults and elderly persons(5 point scale)
14	Assessment of growth of infants and report writing
15	Assessment of growth of preschoolers and report writing
16	Assessment of growth of adolescents
17	Report writing - Assessment of growth of adolescents
18	Assessment of quality home environment provided to children in families
19	Report writing on quality home environment provided to children in families
20	Assessment of mental and motor development of infants (BSID)
21	Report writing on mental and motor development of infants
22	Assessment of IQ of children – Seguin Form Board Test (SFBT)
23	Educational video film on Biology of prenatal development(National geographic) and report writing
24	Educational video film on Stimulatory home environment
25	Educational video film on Stimulation and stimulants for wholesome development of
	young children –Part I
26	Educational video film on Stimulation and stimulants for wholesome development of
	young children –Part II & III
27	Group discussion and report writing on educational video films on (1)Stimulatory home environment (2) Stimulation and stimulants for wholesome development of young children
28	Educational video film on Human development
29	Report writing- Educational video film on Human development
30	A study on various problems encountered by the elderly persons
31	Report writing on various problems encountered by the elderly persons.
32	Preparation and presentation of resource file and submission of practical records.

Suggested Readings

1.Text books

- 1 Berk E.B. (2011) Child development. 8th ed. PHI Learning Private Ltd. New Delhi.
- 2 Elizabeth Hurlock (2000) Developmental psychology, A life span approach, Tata McGraw Hill Publishing Company Ltd., New Delhi.
- 3 Laura, B.E. (2013). Exploring life span development. 3rded. McGraw Hill, New York.
- 4 Santrock, J. (2012). Life span development. 14thed. McGraw Hill, New York.
- 5 Vishala Patnam (2013)Scientific parenting, Marathwada Krishi Vidyapeeth Parbhani (MS).

2. Reference Books

1 Gordon, K.J. (1975). Human development: A transactional perspective. Harper and Row

- Publishers, New York.
- 2 Grinder, R.E. (1993). Adolescence. John Wiley and Sons, New York.
 - **3** Papalia, D.E. and Olds, S. W. (2008). Human development. 11thed. McGraw Hill, New York.
 - **4** Schaimberg, L.B. (1988). Child and adolescent development. Macmillan publishing Company, New York.

3.e-Books

- 1 Douglas A.K. and Francis A.G.(2017) Leisure and Human Development. Sagamore Publishing LLC .https://www.amazon.com/Leisure-Experience-Human Development/0813331498
- **2** Mayuri K.and Khadi P.(2012) Life Span Development-I e-Home Science Courseware. http://ecourses.iasri.res.in/
 - 3 Saradadevi M and Prarthana P.(2012) Life Span Development-I e-Home Science Courseware. http://ecourses.iasri.res.in/
 - 4 <u>Polan</u>E.U. and <u>Taylor</u>D.R. (2010) Journey Across the Life span: Human Development and Health Promotion.4thedn.

http://www.amazon.in/Journey-Across-Life-Span-Development/dp/080362316X.

4. Educational Video Films

- 1 Biology of prenatal development. National Geographic. https://www.ehd.org/store/index.php?route=product/product&product_id=51
- 2 Patnam V.N.and Desetty R.V. (2005)Stimulatory home environment,College of Home Science VNMKV,Parbhani (MS).
 - 3 Patnam V.N. (2007)Stimulation and stimulants for wholesome development of young children PartI,II& III, College of Home Science VNMKV,Parbhani (MS).

Course No. HDS 244 Title Educational Psychology and Early Childhood Education Credits 4 (2+2) Semester IV

Theory

Educational psychology- Meaning, nature, scope and importance of educational psychology, history of its evolution, abroad and in India, recent trends and challenges in educational psychology; Concept of learning- definition, essential features, types of learning, laws of learning, principles of learning, learning traits- sensation, perception, imagination, attention and memory, remembering and forgetting; Intelligence-reasoning and thinking, temperament, problem solving, information processing; Learning environmentreinforcement- definition, types of reinforcements, schedules of reinforcement, importance of reinforcement in learning; Punishment- meaning, functions, types, essentials of good punishment, effects of punishment on learning; Motivation- definition, types, modes of motivation (contingency contract, token economy) relationship of motivation with learning and performance ;Discipline- meaning, social attitudes towards it, need for discipline, wholesome and unhealthy functions of it, essentials in discipline, techniques of discipline, factors influencing choice of disciplinary techniques, evaluation of disciplinary techniques; Theories for classroom teaching and its applicability - learning theories of Jerome Bruner, Robert Gagne, Jean Piaget, Erik Erikson, Lev Vvgotsky, Lawrence Kohlberg performance evaluation - meaning of evaluation/ testing, Ways of evaluation of student's performance. Types of tests used in classroom evaluation. Advantages and abuses of testing and tests. Meaning, characteristics and significance of early childhood years. Programme planning in ECE- Steps and types of programme planning, activities to promote all round development of preschool children- cognitive, language, socio-emotional and motor development, role, qualities and responsibilities of an early childhood personnel.

Practical

Analyzing effects of reinforcement, motivation, discipline on learning. Application of theories of classroom teaching. Application of different methods of evaluating performance and interpretation. Observation and recording of activities in ECE center. Developing and conducting activities to promote all round development- Gross and fine motor skills, cognitive skills, language skills, creativity and socio emotional skills. Preparation of suitable teaching learning material used for preschool children.

Lecture	Topics	Weightage
No.		(%)
1	Educational psychology- Meaning, nature,	2.5
2	Scope and importance of educational psychology	2.5
3	Educational Psychology-History of its evolution in abroad	2.5
4	Educational Psychology-History of its evolution in India	2.5
5	Recent trends in educational psychology	2.5
6	Challenges in educational psychology	2.5
7	Concept of learning- definition, essential features, types of learning	2.5
8	Laws of learning, principles of learning	2.5
9	Learning traits- sensation, perception, imagination, attention and	5.0
	memory, remembering and forgetting, intelligence-reasoning and	
	thinking, temperament, problem solving, information processing	

10	Learning environment- reinforcement- definition, types of	2.5
	reinforcements,	
11	Schedules of reinforcement, importance of reinforcement in learning	2.5
12	Punishment- meaning, functions, types. Essentials of good punishment, effects of punishment on learning	5.0
13	Motivation- definition, types, modes of motivation (contingency	2.5
13	contract, token economy)	2.3
14	Relationship of motivation with learning and performance	2.5
15	Discipline- meaning, social attitudes towards it	5.0
16	Need for discipline and its functions, Essentials in discipline	5.0
17	Techniques of discipline, factors influencing choice of disciplinary techniques, evaluation of disciplinary techniques	5.0
18	Theories for classroom teaching and its applicability – learning theories of Jerome Bruner, Robert Gagne	2.5
19	Learning theories of Jean Piaget, Erik Erikson	5.0
20	Learning theories of Lev Vygotsky, Lawrence Kohlberg	5.0
21	Performance evaluation – meaning of evaluation/ testing	2.5
22	Evaluation of student's performance	2.5
23	Types of tests used in classroom evaluation- Advantages and abuses of testing	2.5
24	Types of tests used in classroom evaluation- Advantages and abuses tests	2.5
25	Meaning, characteristics and significance of early childhood years	2.5
26-27	Programme planning in ECE- Steps and types of programme planning	5.0
28	Various activities to promote all round development of preschool children- Physical and motor development cognitive, speech and language, socio-emotional, moral development	2.5
29	Role, qualities and responsibilities of an early childhood personnel	2.5
30	Analysing effect of reinforcement, motivation, discipline on learning	2.5
31	Application of theories of classroom teaching	2.5
32	Application of different methods of evaluating performance and interpretation	5.0
	Total	100

Exercise No	Title
1	Orientation to the reinforcement techniques to be adopted for children's learning
2	Adoption of reinforcement techniques for learning of Lab. Pre-Primary School students
3	Analysing effects of adopted reinforcement techniques on learning of Lab. Pre- Primary School students.
4	Report writing on effects of reinforcement techniques adopted for learning of Lab. Pre-Primary School students.
5	Orientation to the motivation techniques to be adopted for children's learning
6	Adoption of motivation techniques for learning of Lab. Pre-Primary School students.
7	Analysing effects of adopted motivation techniques on learning of Lab. Pre-Primary School students.
8	Report writing on effects of motivation techniques adopted for learning of Lab. Pre- Primary School students.
9	Orientation to the disciplinary techniques to be adopted for children's learning
10	Adoption of disciplinary techniques for learning of Lab. Pre-Primary School students
11	Analysing effects of adopted disciplinary techniques on learning of Lab. Pre- Primary School students.
12	Report writing on effects of disciplinary techniques adopted for learning of Lab. Pre- Primary School students.
13	Studying applicability of Jerome Bruner's learning theory for class room teaching in Lab. Pre-Primary School.
14	Report writing on applicability of Jerome Bruner's learning theory for class room teaching in Lab. Pre-Primary School.
15	Studying applicability of Jean Piaget's learning theory for class room teaching in Lab. Pre-Primary School.
16	Report writing on applicability of Jean Piaget's learning theory for class room teaching in Lab. Pre-Primary School.
17	Studying applicability of Lev Vygotsky 's learning theory for class room teaching in Lab. Pre-Primary School.
18	Report writing on applicability of Lev Vygotsky's learning theory for class room teaching in Lab. Pre-Primary School.
19	Studying applicability of B.F. Skinner 's learning theory for class room teaching in Lab. Pre-Primary School.
20	Report writing on applicability of B.F. Skinner's learning theory for class room teaching in Lab. Pre-Primary School.

21	Application of different methods of evaluating performance of Lab. Pre-Primary
	students and its interpretation.
22	Report writing on different methods adopted for evaluating performance of Lab. Pre-
	Primary students and for its interpretation
23	Observation and recording of activities in Lab. Pre-Primary School
24	Report writing on activities observed in Lab. Pre- Primary School
25	Planning and conducting activities to promote Gross and fine motor skills of Lab.
	Pre-Primary School students.
26	Planning and conducting activities to promote cognitive skills of Lab. Pre-Primary
	School students,
27	Planning and conducting activities to promote, language skills of Lab. Pre-Primary
	School students, creativity and socio emotional skills.
28	Planning and conducting activities to promote creativity of Lab. Pre-Primary School
	students, socio emotional skills.
29	Planning and conducting activities to promote Socio-emotional skills of Lab. Pre-
	Primary School students.
30	Report writing on activities conducted for promoting wholesome development of
	Lab. Pre- Primary students
31	Preparation of suitable teaching learning material used for preschool children
32	Completion of practical records and its submission

Suggested Readings

1.Text Books

- 1. Agarwal, J S. (1984). Early Childhood Education. Foundation & Practice. National Psychological Corporation, Agra.
- 1. Dubious, N.F. (1979). Educational psychology and instructional decisions. Dorsey press
- 2. Klausmier, H.J. (1985). Educational psychology. Harper and Row, New York.
- 3. Mazur, J. E. (1989). Learning and behaviour. Prentice Hall, New Delhi.
- 4. Mertens, M.D. (2014). Research and evaluation in education and psychology. Sage publication.
- 5. Papalia, D. E. and Olds, S. W. (2008). Human development. 11thed. Mc Graw Hill. New York.
- 6. Vygotsky, L.S. (1962). Thought and Language. Cambridge, MA: MIT Press. (Original work published in 1934).
- 7. Vygotsky, L.S. (1978) Mind in Society: The development of higher psychological processes. Cambridge, MA: Harvard University Press.

2.Reference Books

- 1. Haggbloom, Steven J.; Warnick, Jason E.; Jones, Vinessa K.; Yarbrough, Gary L.; Russell, Tenea M.; Borecky, Chris M.; McGahhey, Reagan; et al. (2002). The 100 most eminent psychologists of the 20th century. Review of General Psychology. **6** (2): 139 152. doi:10.1037/1089-2680.6.2.139
- 2. Hoare, Carol (2001). "Chapter 2, Erikson's Thought in Context". Erikson on Development in Adulthood: New Insights from the Unpublished Papers. Oxford University Press, USA. pp. 7–12. ISBN 978-0195131758

- 3. Mc Crae, R. R., & Costa Jr, P. T. (1997). Personality trait structure as a human universal. American Psychologist, 52(5), 509...
- 4. Mc Adams, D. P. (2001). <u>The psychology of life stories</u>. Review of General Psychology, 5(2), 100.

3.e-Books

Barry J. Zimmerman; Dale H. SchunkLawrence Erlbaum Associates (2003) <u>Educational Psychology:</u> A <u>Century of Contributions</u>.

https://www.questia.comlibrary108210158/ educational -psychology-a- century-of-contributions

Martyn LongRoutledge Falmer (2000) The Psychology of

Educationhttps://www.questia.comlibrary102924406/the-psychology-of-education

Susan BenthamRoutledge(2002)Psychology and

Educationhttps://www.questia.comlibrary103317628/psychology-and-education

Course No. HDS 355 Credits 3(2+1) Title Developmental Challenges in Children Semester V

Theory

Special needs and special education - concept & definition , classification - Prevalence of disabilities in India; Needs of children with disabilities; Special education-concept & definition; Brief history of evolution of special education services in India; legislation and litigations of special education; Mainstreaming- definition, models of mainstreaming, effect of mainstreaming; Mental retardationdefinition, classification, causes/ etiology, psychological and behavioral characteristics, educational considerations, managing child in school; Learning disabilities (LD) -definition, prevalence of learning disabilities in India, causes, measurement of LD, types and characteristics of LD childrencharacteristics of LD children, educational considerations for LD children, managing LD child in school: Emotional disorders- definition, classification, causes, identification of ED, psychological and behavioural characteristic, educational considerations for ED children, managing child in school; Communication disorders- definition- communication, speech & Language, causes, speech production-Language & communication development-classification of speech defects, identificationpsychological and behavioural characteristics, educational considerations, managing child in school; Hearing impairment- definition, anatomy and physiology of ear, classification of hearing loss, causes or etiology, measurement of HI children, psychological and behavioural characteristics, educational considerations for HI children, managing child in school; Visual impairment-definition, classificationcommon visual defects among partially blind or sighted children, anatomy and physiology of eye, causes / etiology, measurement of VI children, psychological and behavioural characteristics of VI children, educational considerations for VI children, managing child in school; Physical impairmentdefinition, classification, assessment, psychological and behavioural characteristics of PI children, educational considerations for PI children, managing child in school; Giftedness-definition, types of intelligence, origins of giftedness, screening and identification of giftedness, psychological and gifted children, attitudes towards gifted children, educational behavioural characteristics of considerations for gifted children, Managing child in school; Rights and provisions, benefits and concessions for persons with disabilities; Intervention- concept, methods, steps and process: instructional methods, steps and process, modes of intervention, assessment process in early intervention programmes, role of professionals, need and importance of early Intervention.

Practical

Educational video film children with special needs, Observational visits to institutes for children with special needs. Identification of children with special needs in the local schools and community, Developing educational material on identification of children with special needs, Organizing education programmes for families of children with special needs, Planning, recreational and vocational activities for children with special needs, Analysis of Case Studies of children with special needs, Orientation to Special Accessories and Materials Used for Developmentally Challenged Children.

Lecture No.	Topics	Weightage (%)
1	Special needs and special education -Concept & Definition , <i>Classification</i> - Prevalence of disabilities in IndiaNeeds of Children With Disabilities;	2.5

2	Special Education-Concept & Definition -Brief History of Evolution of Special Education Services in India, Legislation and litigations of special education;	2.5
3	Mainstreaming Definition, Models of mainstreaming, Effect of mainstreaming;	2.5
4 & 5	Mental retardation-Definition, Classification-Causes/ Etiology	7.5
6&7	Mental retardation- Psychological and behavioral characteristics – Educational considerations Managing child in school	7.5
8&9	Learning disabilities (LD) –Definition, Prevalence of Learning disabilities in India Causes.	2.5
10&11	Learning disabilities (LD) –.Measurement of LD: Types and characteristics of LD children- Characteristics of LD children- Educational considerations for LD childrenManaging LD child in school-	5.0
12&13	Emotional disorders- Definition, Classification and Causes.	5.0
14 &15	Emotional disorders- Identification of EDPsychological and behavioural characteristics of children, Educational considerations for ED children – .Managing child in school	5.0
16 & 17	Communication disorders- Definition- Communication, Speech, Language and Causes, Speech production-Language & communication development.	7.5
18 &19	Communication disorders- Classification of Speech defects -Identification- Psychological and behavioural characteristicsEducational considerations- Managing child in school	7.5
20 & 21	Hearing impairment- Definition, Anatomy and physiology of ear: Classification of hearing loss- Causes or Etiology.	7.5
22&23	Hearing impairment- Measurement of HI children: Psychological nd behavioural characteristics Educational considerations forHI children- Managing child in school:	7.5
24& 25	Visual impairment-Definition, Classification- Common visual defects among partially blind or sighted children-Anatomy and physiology of eye: Causes or Etiology.	5.0
26&27	Visual impairment-Measurement of V children, Psychological and behavioural characteristics of VI children Educational considerations for VI children- Managing child in school:	2.5
28	Physical impairment- Definition, Classification- Assessment- Psychological and behaviouralcharacteristics of PI.	5.0
29	Physical impairment- Educational considerations for PIChildren, Managing child in school.	2.5
30	Giftedness-Definition:Types of intelligence Origins of giftedness Screening and identification of giftedness.Psychological and behavioural characteristics of gifted children,Attitudes towards gifted children- Educational considerations for gifted children- Managing child in school	7.5
31	Rights and provisions - Benefits and concessions for personswith disabilities-	2.5

32	Intervention- Concept- Methods, steps and process:instructional methods- Steps and process Modes of intervention- Assessment Process in Early intervention programmes- Role of professionals- Need and importance	5.0
	of Early Intervention	
	Total	100

Exercise	Title
No	
1	Educational video film on useful materials and activities for mentally challenged
	children for developing adaptive skills - Group discussion and report writing
2	Educational video film on Non-Government organization working for
	developmentally challenged children Group discussion and report writing
3	Feature film about learning disabled child Group discussion and report writing
4	Observational visit to school for mentally challenged children- Group discussion
	and report writing
5	Observational visit to school for hearing impaired children -Group discussion and
	report writing
6	Observational visit to block of Sarva Shiksha Abhiyan - Group discussion and report
	writing
7	Observational visit to Physiotherapy center -Group discussion and report writing
8	Observational visit to Speech therapy center - Group discussion and report writing
9	Orientation to special accessories and materials useful for developmentally
	challenged children - Group discussion and report writing
10	Observational home visit for collecting information for analysis of case studies of
	developmentally challenged children - Group discussion and report writing
11	Visits to local schools / community / clinics for identifying the signs of
	developmental delays in children - Data pooling, tabulation and discussing results.
12	Orientation to special accessories and materials for developmentally challenged
	children
13	Planning and developing educational activities and material for developmentally
	challenged children
14	Execution of planned educational activities and material for developmentally
	challenged children
15	Organizing education programmes for families ofdevelopmentally challenged
	children
16	Planning, recreational and vocational activities for children with special needs.

Suggested Readings

1.Text Books

- 1. Hallahan, D.P. and Kauffman, J.M. (1991). Introduction to exceptional children. 5th ed. Allyn and Bacon, Boston.
- 2. Kauffman & Hallahan (1991). *Exceptional children*, 5th edition, Introducing to special education. London: Allyn& Bacon.
- 3. Kirk, S.A. (1972). Educating Exceptional Children. Boston: Houghton Mifflin Company.
- 4. NIMH (1999), School readiness for children with special needs, National institute for the mentally challenged children, Manovikasnagar P O. Secunderabad.

2. Reference Books

- 1 Achenbach, T.M. (1982). Developmental psychopathology. 2nd ed. John Wiley, New York.
- 2 Berdine, W.H. and Blackhurst, A.E. (1985). An introduction to special education. 2nd ed. Harper Collins, Lexington.
- 3 Hallahan P. Daniel and Kauffman (1988). Exceptional children, Introduction to special education, 4th edition, Prentice Hall International edition
- 4 Hegarty, S. (2002). Education and children with special need. Sage publication. New Delhi.
- 5 Loring, J. and Burn, G. (Eds.). (1978). Integration of handicapped children in society. Routledge and Kegan Paul, London.
- 6 NIMH (1999), Play Activities for Young Children with special needs, National Institute of Mental Handicapped, Manovikasnagar, Secunderabad-500009
- 7 Prasad, J. and Prakash, R. (1996). Eduaction of handicapped children, problems and solution. Kanishka publication distribution. New Delhi.
- 8 Philip, M. and Duckworth, D. (1985). Children with disabilities and their families: A review of research. Berks: NFER-NELSON Publishing Co., Windsor.
- 9 Rozario, J. and Karanth, P. (2003). Learning diability in India. Sage publication. New Delhi.
- 10 Tinberger, N. and Tinberger, E.A. (1983). Autistic children: New hope for a cure. Allen and Unwin, London.
- 11 Werner, D. (1994). Disabled Village Children (Indian edition). Voluntary Health Association of India, New Delhi.

3.e-Books

- 1 Nasreen B and Khadi P. (2012). Children with Developmental Challenges, e-Home Science Courseware, http://ecourses.iasri.res.in/.
- 2 Nasreen B and Khadi P. (2012). Intervention Programmes for Developmentally Challenged Children. e-Home Science Courseware, http://ecourses.iasri.res.in
- 3 Jayanthi N (2000)Step by Step we learn,

nimhindia.gov.in/Tender%20advertisment%2023.09.2016.pdf

- 4 Jayanthi N (2000) Give them a Chance nimhindia.gov.in/Tender%20advertisment%2023.09.2016.pdf
- 5 Jayanthi N (2000) Sahnubuthi Nahi Sahyog.

 $nimhindia.gov.in/Tender\%\,20 advertisment\%\,2023.09.2016.pdf$

Course No. HDS 366 Credits 3(2+1)

Title Family Counselling and Child Welfare Semester VI

Theory

Concept, nature, scope, principles and need of family counselling, trust areas in family counselling- educational, vocational, social, personal, premarital and marital, problems in family counselling, methods of handling problems, approaches to evaluate family counselling, counselor's self-awareness and growth. Situation analysis of child, women, youth, elderly, disabled and reserved category in India and in the world- Census, Issues and challenges, determining factors for the present status, impact of present status on the family and society at large. Child welfare- definition, need, constitutional, provisions for children, legislations

pertaining to children, schemes/projects and policies for children, other activities of child welfare, Women welfare- definition, need, constitutional provisions for women, legislations pertaining to women, schemes/projects and policies for women Youth welfare- definition, need, constitutional provisions for youth, legislations pertaining to youth, schemes/projects and policies for youth Elderly welfare- definition, need, constitutional, provisions for elderly, legislations pertaining to elderly, schemes/projects and policies for elderly Disabled/ exceptional pupil welfare- definition, need, constitutional, provisions for

disabled, legislations pertaining to disabled, schemes/projects and policies for disabled Reserved category welfare- definition, need, constitutional provisions for reserved category, legislations pertaining to reserved category, schemes/projects and policies for reserved category National and international organizations and agencies working for child, women, youth, elderly and disabled welfare: UNICEF, WHO, CARE, DWACRA, NIPCCD, CIF etc.

Practical

Visits to organizations offering counseling to families; Studying the areas of family Counselling;. Identifying the families which are in need of counseling; Conducting counseling sessions to families, presentation of reports; Visits to various government and non government organizations working for the welfare of the children, Presentation of reports

Lecture No.	Topics	Weightage
		(%)
1	Family Counselling -Concept-, nature, Scope, Principles	2.5
2	Need of family counselling	2.5
3	Trust areas in family counselling- educational, vocational, social, personal, premarital and marital	5.0
4	Problems in family counselling-individual ,family members, methods of handling problems	2.5
5	Approaches to evaluate family counselling: Client / person centered therapy/counseling, Existential therapy	5.0
6	Counsellor's self-awareness and growth: counsellor's personality as well as clients' concerns and goals influence the choice of intervention Situation analysis of child, women, youth, elderly India and in the world- Census	2.5

7-8 Counsellor's self-awareness and growth: How to develop self awareness, develop insight, using self awareness—to identify needs, key areas for self awareness-personality, values, habits, needs. How Self-Awareness Makes You More Effective 9-10 Situation analysis of child-worldwide, Child Poverty, Disparities, Climate, Change and Children , gender equality in education, more affordable healthcare, human rights, changing political context, emergencies, safety issues, and the realization of children's rights in situations, Situation analysis of women-Culture, Politics, Education and economic development, Workforce participation, Land and property rights, Crimes against women, Acid throwing, Child marriage, Domestic violence, Dowry, Female infanticide and sex 12 Situation analysis of Youth -From education to employment: the skills crisis, unemployment Labour markets and regulations, Assistance and dependency, Vocational education 13 Situation analysis of Youth -In the world and in India - Census Situation analysis of Wouth -In the world and in India - Census Situation analysis of Pourth and administrative action by the different levels of governments in India, The systems of reservation of India is a form of positive discrimination, facilitating a person in education, scholarship, jobs, and in promotion 14 Issues and challenges-nuclear families, education ,employment, Determining factors for the present status 15 Impact of present status on the family and society at large 2.5 Child welfare- definition, need, Child welfare- constitutional, provisions for children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other activities of child welfare-etc 18 Women welfare-definition, need, constitutional provisions for women – 2.5 19 Gender Equality —to ensure gender equality and an end to violence against women. 20 Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion,			
Situation analysis of child- worldwide, Child Poverty, Disparities, Climate, Change and Children, gender equality in education, more affordable healthcare, human rights, changing political context, emergencies, safety issues, and the realization of children's rights in situations, Situation analysis of child in India 11 Situation analysis of women-Culture, Politics, Education and economic development, Workforce participation, Land and property rights, Crimes against women, Acid throwing, Child marriage, Domestic violence, Dowry, Female infanticide and sex 12 Situation analysis of Youth -From education to employment: the skills crisis, unemployment, Labour markets and regulations, Assistance and dependency, Vocational education 13 Situation analysis of South -In the world and in India - Census Situation analysis of Greserved category, Religious population of SCs/STs, laws, guidelines, and administrative action by the different levels of governments in India, The systems of reservation of India is a form of positive discrimination, facilitating a person in education, scholarship, jobs, and in promotion 14 Issues and challenges-nuclear families, education ,employment, Determining factors for the present status 15 Impact of present status on the family and society at large 2.5 16 Child welfare- definition, need, Child welfare- constitutional, provisions for children- 17 The laws of negligence and contract Schemes/projects Policies for children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other activities of child welfare- etc 18 Women welfare- definition, need, constitutional provisions for women – 2.5 Gender Equality —to ensure gender equality and an end to violence against women. 20 Legislations pertaining to women- Laws relating to property, succession, inheritance, guardianship & adoption 21 Youth welfare- definition, need, constitutional provisions for youth- Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies 22 Elde	7 -8	awareness, develop insight ,using self awareness –to identify needs ,key areas for self awareness- personality, values, habits ,needs , How Self-	5.0
Situation analysis of women-Culture, Politics, Education and economic development, Workforce participation, Land and property rights, Crimes against women, Acid throwing, Child marriage, Domestic violence, Dowry, Female infanticide and sex 12 Situation analysis of Youth -From education to employment: the skills crisis, unemployment, Labour markets and regulations, Assistance and dependency, Vocational education 13 Situation analysis of Youth -In the world and in India - Census Situation analysis of disabled - Dependency, Jow confidence, social status. Situation analysis of Reserved category, Religious population of SCs/STs, laws, guidelines, and administrative action by the different levels of governments in India, The systems of reservation of India is a form of positive discrimination, facilitating a person in education, scholarship, jobs, and in promotion 14 Issues and challenges-nuclear families, education ,employment, Determining factors for the present status 15 Impact of present status on the family and society at large 16 Child welfare- definition, need, Child welfare- constitutional, provisions for children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other activities of child welfare-etc 18 Women welfare- definition, need, constitutional provisions for women— 25 Gender Equality—to ensure gender equality and an end to violence against women. 20 Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession, inheritance, guardianship & adoption 21 Youth welfare- definition, need, constitutional provisions for youth-Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies 22 Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing	9 - 10	Situation analysis of child- worldwide, Child Poverty, Disparities, Climate, Change and Children, gender equality in education, more affordable healthcare, human rights, changing political context, emergencies, safety issues, and the realization of children's rights in	5.0
crisis, unemployment Labour markets and regulations, Assistance and dependency, Vocational education Situation analysis of Youth -In the world and in India - Census Situation analysis of disabled - Dependency low confidence, social status .Situation analysis of Reserved category ,Religious population of SCs/STs, laws, guidelines, and administrative action by the different levels of governments in India, The systems of reservation of India is a form of positive discrimination, facilitating a person in education, scholarship, jobs, and in promotion 14 Issues and challenges-nuclear families, education ,employment, Determining factors for the present status 15 Impact of present status on the family and society at large 16 Child welfare- definition, need, Child welfare- constitutional, provisions for children- 17 The laws of negligence and contract Schemes/projects Policies for children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other activities of child welfare-etc 18 Women welfare- definition, need, constitutional provisions for women — 19 Gender Equality —to ensure gender equality and an end to violence against women. 20 Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession, inheritance, guardianship & adoption 21 Youth welfare- definition, need, constitutional provisions for youth—Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies 22 Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing 23 Legislations pertaining to elderly-, rights of older persons, Governmental concessions and facilities, schemes/projects and policies for elderly	11	Situation analysis of women-Culture, Politics, Education and economic development, Workforce participation, Land and property rights, Crimes against women, Acid throwing, Child marriage, Domestic violence,	5.0
Situation analysis of Youth -In the world and in India - Census Situation analysis of disabled - Dependency ,low confidence, social status .Situation analysis of Reserved category ,Religious population of SCs/STs, laws, guidelines, and administrative action by the different levels of governments in India, The systems of reservation of India is a form of positive discrimination, facilitating a person in education, scholarship, jobs, and in promotion 14	12	Situation analysis of Youth -From education to employment: the skills crisis, unemployment, Labour markets and regulations, Assistance and	2.5
Issues and challenges-nuclear families, education ,employment, Determining factors for the present status Impact of present status on the family and society at large Child welfare- definition, need, Child welfare- constitutional, provisions for children- The laws of negligence and contract Schemes/projects Policies for children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other activities of child welfare-etc Women welfare- definition, need, constitutional provisions for women — 2.5 Gender Equality —to ensure gender equality and an end to violence against women. Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession, inheritance, guardianship & adoption Youth welfare- definition, need, constitutional provisions for youth-Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing Legislations pertaining to elderly-, rights of older persons, Governmental concessions and facilities schemes/projects and policies for elderly	13	Situation analysis of Youth -In the world and in India - Census Situation analysis of disabled — Dependency ,low confidence, social status .Situation analysis of Reserved category ,Religious population of SCs/STs, laws, guidelines, and administrative action by the different levels of governments in India, The systems of reservation of India is a form of positive discrimination, facilitating a person in education,	5.0
15 Impact of present status on the family and society at large 2.5 16 Child welfare- definition, need, Child welfare- constitutional, provisions for children- 17 The laws of negligence and contract Schemes/projects Policies for children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other activities of child welfare-etc 18 Women welfare- definition, need, constitutional provisions for women – 19 Gender Equality —to ensure gender equality and an end to violence against women. 20 Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession, inheritance, guardianship & adoption 21 Youth welfare- definition, need, constitutional provisions for youth—Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies 22 Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing 23 Legislations pertaining to elderly-, rights of older persons, Governmental concessions and facilities, schemes/projects and policies for elderly	14	Issues and challenges-nuclear families, education ,employment,	2.5
Child welfare- definition, need, Child welfare- constitutional, provisions for children- The laws of negligence and contract Schemes/projects Policies for children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other activities of child welfare-etc Women welfare- definition, need, constitutional provisions for women — 2.5 Gender Equality —to ensure gender equality and an end to violence against women. Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession, inheritance, guardianship & adoption Youth welfare- definition, need, constitutional provisions for youth—Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing Legislations pertaining to elderly-, rights of older persons, Governmental concessions and facilities schemes/projects and policies for elderly	15		2.5
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Women welfare- definition, need, constitutional provisions for women — 2.5 Gender Equality —to ensure gender equality and an end to violence against women. 20 Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession, inheritance, guardianship & adoption 21 Youth welfare- definition, need, constitutional provisions for youth—Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies 22 Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing 23 Legislations pertaining to elderly-, rights of older persons ,Governmental concessions and facilities ,schemes/projects and policies for elderly 5.0	17	children-, Maharashtra Government, Integrated Child Protection Scheme (ICPS), RCH, Juvenile Justice other	5.0
20 Legislations pertaining to women- Laws relating to women, Laws relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession, inheritance, guardianship & adoption 21 Youth welfare- definition, need, constitutional provisions for youth—Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies 22 Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing 23 Legislations pertaining to elderly-, rights of older persons, Governmental concessions and facilities, schemes/projects and policies for elderly 5.0	18		2.5
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Youth welfare- definition, need, constitutional provisions for youth—Legislations pertaining to youth—Maharashtra and in India, schemes/projects, policies Elderly welfare- definition, need, constitutional, provisions for elderly-governmental on cessions and facilities-Health, Travel, Housing Legislations pertaining to elderly-, rights of older persons, Governmental concessions and facilities, schemes/projects and policies for elderly	20	relating to -working women, to marriage & divorce, to maintenance, Laws relating to abortion, Laws relating to property, succession,	5.0
Elderly welfare- definition, need, constitutional, provisions for elderly- governmental on cessions and facilities-Health, Travel, Housing Legislations pertaining to elderly-, rights of older persons, Governmental concessions and facilities, schemes/projects and policies for elderly 5.0	21	Youth welfare- definition, need, constitutional provisions for youth Legislations pertaining to youth—Maharashtra and in India,	5.0
concessions and facilities ,schemes/projects and policies for elderly	22	Elderly welfare- definition, need, constitutional, provisions for elderly-	5.0
	23	Legislations pertaining to elderly-, rights of older persons ,Governmental	5.0
	24	Disabled/ exceptional pupil welfare- definition, need, constitutional-for	5.0

	educational, economic, empowerment, provisions for disabled		
25	Legislations pertaining to disabled-different scholarships, skill oriented programmes, integrated programmes, schemes/projects and policies for disabled		
26	Reserved category welfare- definition, need, constitutional provisions	2.5	
27	Legislations pertaining to reserved category, schemes /projects and policies for reserved category	2.5	
28-29	National and international organizations and agencies working for child, women, youth, elderly and disabled welfare: Introduction UNICEF World Ware house-History, Functions and Structures, For women-Mother and Child	2.5	
30-32	WHO,CARE, DWACRA, NIPCCD, CIF- etc History, Functions and Structures	5.0	
1	Total	100	

Exercise No.	Title
1	Orientation to the family counselling
2	Orientation to the educational, vocational and social counselling
3	Orientation to the personal, premarital and marital counselling
4	Visit to the local Family Counselling Center of government/non-government organization
5	Report writing on Visit to the Family Counselling Center of government/ non-government organization
6	Identifying the families which are in need of educational and vocational counselling
7	Conducting Counselling sessions for the families which are in need of educational and vocational counselling
8	Report writing on Counselling session conducted for the families for giving educational and vocational counselling
9	Identifying the families which are in need of premarital and marital counselling of premarital and marital counselling
10	Conducting Counselling sessions for the families which are in need of premarital and marital counselling
11	Report writing on Counselling session conducted for the families for giving premarital and marital counselling
12	Peer to peer guidance and counselling and its impact on knowledge and skills of students
13	Visit to local Govt. organizations working for the welfare of the women and children
14	Visits to local non-government organizations working for the welfare of the women and children
15	Report writing on local government and non-government organizations working for the welfare of the women and children
16	Completion of practical records and its submission

1.Text Books

- 1. Randhawa, M.S. (1991). The Rural and urban aged. National Book Organization, Unit IX, New Delhi.
- 2. Saraswathi, S. (1991). Youth in India. ICSSR, Govt. of India, New Delhi.
- 3. Marasimhan, S. (2001). Employment of women. Sage publication. New Delhi.
- 4. Boraian, P.M (2008). Employment of rural women. Concept publishing company. New Delhi.
- 5. Mehta, L.P and Jaiswal, S.S. (2001). Child labour and the laws. Deep and Deep publication. New Delhi.
- 6. Devi, L. (1998). Child and family welfare. Anmol publication. New Delhi.
- 7. Devaisia, L. (1991). Girl child in India. Ashish publishing house. New Delhi.
- 8. Down, W.S. (2006). Child welfare and family services.8thedi. Pearson education publishers.
- 9. Pecora, J.P. (2009). The child welfare challenge: Policy, practice and research. Aldine transaction publisher.

2.Reference Books

- 1. NIPCCD. (1994). Child in India: A statistical profile. NIPCCD, New Delhi.
- 2. TISS (1994). Enhancing the role of family as agency for social and economic development. TISS Bombay. Vol. II, Part II.
- 3. UNICEF. (1990). Children and women in India: A situation analysis. Unit VI, VII

Course No. HDS 367 Title Education and Counselling for Parents & Community
Credits 3 (0+3) Semester VI

Practical

Orientation on need and importance of parent and community education. Understanding recent issues and challenges. Parent-Child Relationships and its impact on children. Studying various methods of parent and community education. Visit of local community to identify parents of normal and exceptional children, rapport building, identifying families with problems and conducting case studies, acquiring familiarization with the tests and techniques used for the assessment of troubled families, identification of areas and issues for parent education, developing parent education programmes, Planning, conducting and evaluating parenting education programmes, Wisconsin model of community education, Study on communication barriers-differences between men and women, conducting sessions in the community on communication skills and effective human communication, Studying on various approaches and techniques of counselling, organizing counselling sessions for individuals, couples, parents and families of normal and exceptional children by using appropriate therapies — Cognitive behavioural therapy (CBT), Rational emotive behavioural therapy (REBT), Client centered and existential therapies etc, Establishing and managing the resource centre for parents and local community, Implementing and evaluating the programmmes developed.

Exercise	Title	
No.		
1	Orientation on need and importance of parent and community education.	
2	Understanding recent issues and challenges in parent and community education.	
3	Studying parent-child relationships and its impact on children.	
4	Orientation to various methods of parent and community education.	
5	Visit of local community to identify parents of normal and exceptional children.	
6	Developing rapport with identified parents having normal and exceptional children.	
7	Identifying low SES families having problems and conducting their case studies.	
8	Identifying middle SES families having problems and conducting their case studies.	
9	Identifying High SES families having problems and conducting their case studies.	
10	Group discussion and report writing on case studies of the families having different	
11	problems belonging to low, middle and high SES Orientation to tests and techniques used for the assessment of troubled families.	
12	Orientation to Wisconsin model of community education.	
13	A study on communication barriers-differences between men and women	
14	Report writing on the study conducted on communication barriers-differences	
14	between men and women	
15	Identification of areas and issues for organizing parent and community education programme in slum area.	
16	Planning parent and community education programme on identified issues in slum area.	
17	Execution of planned parent and community education programme on identified	
	issues in slum area.	
18	Evaluation and report writing on executed parent and community education	
	programme on identified issues in slum area.	
19	Identification of areas and issues for organizing parent and community education	

	programme in urban area.
20	Planning parent and community education programme on identified issues in urban
	area.
21	Execution of planned parent and community education programme on identified
	issues in slum area.
22	Evaluation and report writing on executed parent and community education
	programme on identified issues in urban area.
23	Identification of areas and issues for organizing parent and community education
	programme in rural area.
24	Planning parent and community education programme on identified issues in rural
	area.
25	Execution of planned parent and community education programme on identified
	issues in rural area.
26	Evaluation and report writing on executed parent and community education
	programme on identified issues in rural area.
27	Orientation to various approaches and techniques of counselling,
28	Identification of areas and issues of parent counselling in slum area
29	Dealing identified areas and issues of parent counselling in slum area
30	Report writing on counselling given to the slum parents on identified issues.
31	Identification of areas and issues for parent counselling in urban area
32	Dealing identified areas and issues for parent counselling in urban area
33	Report writing on counselling given to the urban parents on identified issues.
34	Planning session in the community on developing communication skills and
	importance of effective human communication
35	Conducting session in the community on communication skills and effective human
	communication.
36	Report writing on session conducted in the community on communication skills and
2=	effective human communication.
37	Organizing counselling sessions for individuals by using appropriate therapies
38	Report writing on counselling session organized for individuals by using appropriate
20	therapies
39	Organizing counselling session for couples by using appropriate therapies
40	Report writing on counselling session organized for couples by using appropriate therapies
41	Organizing counselling session for parents and families of normal children by using
41	appropriate therapies
42	Report writing on counselling session organized for families of normal children by
72	using appropriate therapies
43	Organizing counselling session for parents and families of exceptional children by
45	using appropriate therapies.
44	Report writing on counselling session organized for families of exceptional children
	by using appropriate therapies.
45	Visit to local counselling centers of government and non-government organizations
46	Visit to local counselling centers of non-government organizations
47	Report writing on visit to local counselling centers of government and non-
.,	government organizations
48	Completion of practical records and submission
	I was a la management and an

1.Text Books

- 1. Campbell, D. (2003). Group parent education: Promoting parents learning and support. Sage publication.
- 2. Epstein, L.J. (2010). School, family and community Partnership: Preparing educators and Improving School, West view press.

2. Reference Books

- 1. American Psychological Association. (2000). What is psychology? About the American Psychological
 - Association web page (http://ww.apa.org/about).
- 2. Lauren Girard Adams, Esq. and Maisley Paxton(2008)Counseling Children and Youth in Times of Crisis: Tips to Achieve Success and Avoid Pitfalls. American Bar Association Section of Litigation Children's Rights Litigation Committee
- http://apps.americanbar.org/litigation/committees/childrights/video/1006- interviewing-child-client.html.
- 3. UNESCO (1995) Recent trends and developments in educational psychology: Chinese and American perspectives Published by the United Nations Educational, Scientific and Cultural Organization, Place de Fontenoy, 75352 Paris 07 SP UNESCO, ISBN 92-3-102980-0
- 4. Tett, L. (2006). Community education: Lifelong learning and social inclusion (Policy and practice in education). Dunedin Academic Press.

3.e- Books

Kelvin Seifert, et al. (2010)Contemporary Educational Psychology,

http://www.e-booksdirectory.com/details.php?ebooks=5748

Student READY Programme 40(0+40)

Course No	. SRP 471	Title Implant Training
Credits	10 (0+10)	Semester VII
Course No	. SRP 472	Title Rural Awareness Work Experience
Credits	10 (0+10)	Semester VII
Course No	. SRP 481	Title Experiential Learning
Credits	20 (0+20)	Semester VIII

DEPARTMENT OF RESOURCE MANAGEMENT AND CONSUMER SCIENCE

Course No. RMCS 111 Title Fundamentals of Art and Design Credits 3 (1+2) Semester I

Theory

Introduction and objectives of interior decoration. Elements of art and their importance in interior decoration. Principles of design and their application to enrich the interiors Colour: sources of colour, properties of colour, emotional effect of colour, colour schemes, colour theories, colour plans for interiors Furniture – types of furniture, materials and finishes of furniture, factors affecting the selection of furniture, care and maintenance of furniture, furniture arrangement, paints to be considered while selecting the furniture. Wall classification, types of building walls, functional characteristics of walls, types of wall treatments, exterior and interior wall finishes. Floor importance, types of floor covering, care, maintenance and selection of floor covering. Windows – importance, its functional and decorative treatments. Accessories – classification, application of principles of design and decoration in the selection/development of accessories, and their placement.

Lighting – importance, types of lighting and its application. Flower arrangement – materials used, principles involved, types, practical utility and care. Table setting – linens, tableware etc. required for table setting, table etiquettes.

Practical

Learning elements of art and principles of design. Development of motif and design through art principles. Colour – colour schemes, values and intensity scale, colour wheel. Furniture – care and arrangement of furniture. Accessories – preparation and placements of accessories. Flower arrangement. Learning different types of table setting and napkin folding. Window treatment. Lighting, fixtures and then utility. Market survey – different types of wall and floor coverings.

Lecture	Topics	Weightage
No.		(%)
1.	Introduction and objectives of interior decoration. Elements of art and	7
	their importance in interior decoration.	
2 and 3	Principles of design and their application to enrich the interiors	10
4	Colour: sources of colour, properties of colour, emotional effect of	7
	colour	
5	Colour schemes, colour theories, colour plans for interiors.	10
6 &	Furniture – types of furniture, - materials and finishes of furniture,	10
7	factors affecting the selection of furniture, care and maintenance of	
	furniture, furniture arrangement, paints to be considered while selecting	
	the furniture.	
8	Wall – classification, types of building walls, functional characteristics	10
&9	of walls, types of wall treatments, exterior and interior wall finishes.	
10	Floor importance, types of floor covering, care, maintenance and	8
	selection of floor covering.	
11	Windows – importance, its functional and decorative treatments.	8

12	Accessories – classification, application of principles of design and decoration in the selection/development of accessories, and their placement.	8
13	Lighting – importance, types of lighting and its application	8
14 &15	Flower arrangement – materials used, principles involved, types, practical utility and care	10
16	Table setting – linens, tableware etc. required for table setting, table etiquettes	4
	Total	100

Exercise No.	Title	
1.	Illustrating elements of art Line, form and colour texture, light, pattern, space through motifs, photos, and pictures	
2.	Application of principles of interior design and Decoration: Harmony- line and shape	
3.	Balance- Formal and Informal	
4.	Proportion- Space relationship- and Change in appearance Principle of Scale	
5.	Rhythm	
6.	Emphasis	
7.	Development of naturalistic ,geometric and stylized motifs Development of design through art principles	
8.	Developing colour schemes- Monochromatic Colour Schemes	
9.	Analogous Colour Schemes	
10.	Complementary Colour Schemes - Double Complementary Colour Schemes	
11.	Split Complementary Colour Schemes	
12.	Triad Colour Schemes	
13.	Developing Values and intensity scale	
14.	Drawing Prang Colour wheel	
15.	Furniture – care of wood ,metal, glass, cane, plastic and leather furniture	
16.	Arrangement of furniture for different rooms.	
	Drawing floor plan of Drawing ,Bed and Dining room on graph paper to the scale	
17.	Selection of furniture and preparing furniture templates to the scale	
18.	Showing different Furniture arrangements with the help of templates on graph	
	paper along with floor covering and colour schemes	
19.	Accessories – Preparation and placement of utility and decoration articles by using	
	various painting/printing, paper mache techniques	
20.	Preparation of fabric painting, glass painting, pottery, collage, handicrafts and placements of accessories	

21.	Demonstration of application of art principles while arranging flowers pot		
22.	Practicing line flower arrangements		
23.	Practicing mass flower arrangements		
24.	Practicing combination of mass and line flower arrangements		
25.	Learning different types of table setting –formal and informal methods of meal serving		
26.	Practicing different shapes in napkin folding for decorating table setting		
27.	Window treatments Curtains, draperies- blinds, valance, pelmet, shades		
28.	Lighting, fixtures and their utility		
29.	Market survey – different types of wall and floor coverings. Visit two shops of Wall papers and wall tattoos and collecting information on cost ,types, availability etc		
30.	Visit two shops of Linoleum, vinyl ,rubber ,cork , and wood floor coverings collecting information on cost ,types, availability etc		
31.	Visit two shops of paints for collecting information on cost ,types, availability etc		
32.	Visit two shops of tiles and, stones for collecting information on cost ,types, availability etc		

1.Text Books

- 1. Dorothi, et al., (1980). Introduction to Interior Design. New York: Mc Millan.
- 2. Faulkner and Faulkner. (1975). Inside Today's Home. New York: Holt, Rinehart and Winston.
- 3.Ruth, M. (1975). The Home and its Furnishings, U.S.A.: Mc. Graw Hill.
- 4.Goldstein and Goldstein (1954).Art in everyday life, Macmillan publishing Co.,.,Inc.New York.

2. Reference Books

- 1. Gewther, M. (1970). The Home, its Furnishings and Equipment U.S.A. Mc. Graw Hill.
- 2. Mike, L. (1986). The Complete Interior Decoration. United Kingdom: Mc Donald.
- 3.Seetharaman P. and Sethi M. (2002). Interior Design and Decoration. CBS Publishers and Distributors. New Delhi.

3.e-Books

1.Interior design books on home decorating

www.interiordezine.com/free downloads

2.Interior & lighting design

www.designfull.en

3. The art of interior decoration by Emily Burbank Manybooks.net/titles/burbanke1429814298

Course No. RMCS 122 Title System Dynamics and Management of Resources Credits 3 (2+1) Semester II Theory

Systems approach to management. Motivating factors of management- values, goals and standards, origin, classification and role, Resources – definition, types, guidelines for use of resources and factors affecting, management of household resources and situation, Management process- planning - importance, types, characteristics and techniques, organizing; controlling-definition, phases and factors, evaluating- definition and types of evaluating. Time - tools of time management, and process of time management. Decision making process - types, steps in decision making and factors affecting decision making. Management process applied to energy – Concept, fatigue, measures to relieve fatigue, Process of energy management, effective use of body. Work simplification-concept, techniques and classes of change.

Practical

Identification of individual and family values, identification of immediate, short term and long term goals of individual and family. Standards for individual and family goals. Decision making by individuals and families. Applying decision making process, group work presentation on types of decision and decision making process. Listing out human and non – human resources, listing community resources. Application of management process to organize an event – planning, organization, evaluation. Management of personal time record for a week. Presentation of personal time record. Paper and pencil techniques.

Lecture	Topics	Weightage
No.		(%)
1 & 2	Systems approach to management.	5
3 & 4	Motivating factors of management- values	5
5 & 6	Motivating factors of management- goals and standards	10
	classification and role	
7 & 8	Resources-definition, types, guidelines for use of resources	10
9 & 10	factors affecting, management of household resources and	5
	situation	
11 & 12	Management process- planning - importance, types,	5
13 & 14	Characteristics and techniques	5
15 & 16	Organizing; controlling- definition, phases and factors	5
17 & 18	evaluating- definition and types of evaluating	5
19 & 20	Time - tools of time management and process of time	7
	management	
21 & 22	Decision making process - types,	8
23 & 24	steps in decision making and factors affecting decision making	7
25 & 26	Management process applied to energy – Concept	3
27 & 28	fatigue and Measures to relieve fatigue	5
29 & 30	Process of energy management, effective use of body.	5
31 & 32	Work simplification-concept, techniques and classes of change.	10
	Total	100

Exercise	Title	
No.		
1	Identification of individual and family values	
2	Identification of immediate, short term goals of individual and family.	
	Identification of long term goals of individual and family.	
3	Standards for individual and family goals	
4	Decision making by individuals and families	
6	Applying decision making process in individual cases	
7	Applying decision making process in group and explaining conflict, consensus	
8	Group work presentation on types of decision and decision making process	
9	Listing out human and non – human resources, listing community resources	
10	Application of management process to organize an event – planning	
11	Application of management process to organize an event – organization	
12	Application of management process to organize an event	
13	Evaluation of management process of organized event	
14	Management of personal time record for a week.	
15	Presentation of personal time record.	
16	Paper and pencil techniques.	

Suggested Readings

1. Text Books

- 1.Mann, M.K. (2004). Home Management for Indian Families, Kalyani Publisher Ludhiana
- 2. Nickell, P. and Dorsey, J.M. (1970). Management of Family Living. Wiley Eastern, New Delhi

2. Reference Books

- 1. Vargeese, M.N. Ogale, N.N. and Srinivasan, K. (1992). Home Management, Wiley Eastern, New Delhi
- 2.Krishna Oberoi (2006). Resource Management for Better Homes. R.K. Offset, Delhi.
- 3. Bhargava, Bela. (2005). Family Resource Management and Interior Decoration. Apple Printer and V. R. Printers, Jaipur.

3.e-Books

Time management-books-bookboon

Bookboon.com/en/time managementebook

Human resource Management

Bookboon.com/en/time managementebook

Course No. RMCS233 Title Financial Management and Consumer Education Credits 3 (2+1) Semester III

Theory

Concepts, importance, objectives and major aspects of family finance. Income concepts: productive income, hidden income, money income, real income, psychic income. Family – as income producing and utilizing unit, factors affecting in the use of family income. Analyzing income: income profile, methods of handling income, account keeping. Family budget: steps of budget making, factors influence on budget making, advantages of budget making, Engel's law of consumption, standard of living. Credit- needs, types, and source, planning for financial security of families- Definition, guidelines and reasons, credit institution- Banks and finance agencies. Savings and Investment- types of savings / investment, Saving institutions and its importance, criteria for selecting family investments. Taxation- objectives, and classification. Consumer – definition and role, concept of consumer and consumer economics. Consumer problems in rural and urban areas. Unfair trade practices- adulteration, faulty weights and measures, over pricing, adulteration. Consumer rights and responsibilities. Consumerism and consumer protection ,consumer protection Act and Govt. legislation and order, NGO's for consumer protection and welfare. Standard and standardization and legislative measures for regulating quality. Sources of consumer information – advertisements, labels, packaging etc.

Practical

Study of income profiles of various occupations, Study of Methods of handling money, Preparation of family budget for various occasions, Visit to various saving institutions and preparation of report on various facilities, Assessment of personal tax, Analysis of information sources available for consumers, Preparing the information material for consumers, Arranging consumer awareness campaign.

Lecture No.	Topics	Weightage (%)
1	Concepts, importance, objectives and major aspects of family finance	2
2	Income concepts: productive income, hidden income, money income, real income, psychic income.	5
3	Family – as income producing and utilizing unit, factors affecting the use of family income	5
4	Analyzing income: income profiles	2
5	Methods of handling income, account keeping	2
6&7	Family budget: steps of budget making, factors influencing on budget making, advantages of budget making	6
8	Engel's law of consumption, standard of living.	2
9 & 10	Credit- needs types, use and household sources	5
11& 12	Planning for financial security of families,	5
13	Credit institutions	4
14&15	Savings and Investment- types of savings and investment,	6

16&17	Saving institution and its importance	6
18	Criteria for selection of investments	4
19	Taxation- objectives, importance and classification	4
20	Consumer – definition and role, concept of consumer and consumer economics	5
21	Consumer problems in rural and urban areas:	4
22	Unfair trade practices, adulteration, faulty weights and measures	5
23 & 24	Consumer rights and responsibilities.	5
25 & 26	Consumerism and consumer protection-	5
27 & 28	Consumer protection Act and Govt. legislation and order	4
29	NGO's for consumer protection and welfare	4
30	Standard and standardization	3
31	Legislative measures for regulating quality.	3
32	Sources of consumer information – advertisements, labels, packaging, manufacturer's catalogue etc.	4
	Total	100

Exercise	Title
No.	
1	Study of income profiles of various occupations
2	Income profiles of various occupations
3	Study of Methods of handling money
4	Preparation of family budget for a month
5	Preparation of family budget for various occasions
6	Visit to various saving institutions Banks
7	Visit to various saving institutions Post office
8	preparation of report on various facilities
9	Study of Income Tax assessment slabs
10	Assessment of personal tax
11	Study of information sources available for consumers
12	Analysis of information sources available for consumers
13	Learning Preparation of the information material for consumers
14	Preparing the information material for consumers
15	Arranging consumer awareness campaign in schools
16	Arranging consumer awareness campaign in various residential localities

Suggested Readings

1.Text Books

- 1.Seetharaman P. Sethi M. (2002). Consumerism Strategies and Tactics. CBS Publishers and Distributors. New Delhi.
- 2.Khetarpaul, N and Grover, I. (2004). Consumer Guide for Home Maker Udaipur: Agratech Pub Academy.

2.Reference Books

- 1.Bhargava, Bela. (2005). Family Resource Management and Interior Decoration. Univ. book home Pvt. Ltd. Jaipur.
- 2.Maneesha Shukul and Veena Gandotra. (2006). Home Management and Family Finance. Dominant Publishers and Distributors, New Delhi.
- 3.Mann, M.K. (2004) Home Management for Indian Families. Kalyani Publishers, New Delhi.
- 4.Rice, Nickel and Tucker. (1976). Management in Family Finance. John Wiley and Sons., New York
- 5. Tiwari, O.P. (2000). Consumer Protection Act Allahabad: Allahabad Law Agency.
- 6. Varghese, M.N. Ogale, W. N. and Srinivasan, K. (1997). Home Management, New Delhi: New Age International.
- 7.Seshadri, V 2006 Consumerism1st edn Mittal, N. Delhi

3.e-Books

e-books: Financial Management | Download book - Free Book Centre www.freebookcentre.net/...books-download/Financi...

Free Finance Books Download | Ebooks Online Textbooks Tutorials

www.freebookcentre.net/.../Finance-Books.html

Financial Management - Free E-Books - E-Books Directory

www.e-booksdirectory.com/listing.php?category...

strategic Financial Management : Free Download ...

https://archive.org/.../StrategicFinancialManagement

Free Financial Management Books

www.bizmove.com/books/financial-management-bo...

Finance Skills PDF - Free Download - Free Management eBooks

www.free-management-ebooks.com/.../finance-skills...

Strategic Financial Management -lib.mdp.ac.id/ebook

Strategic Financial Management Book Boon.com.

Title Housing and Space Management Semester IV

Theory

Housing and its importance, effect of insufficient housing. Factors to be considered in selection of family housing, and site, housing needs at different stages of family life cycle. Rural and urban housing problems in India. Housing legislation and regulation - Building Act 1984, Defective Premises Act 1972, Disability Discrimination Act 1995, Housing policies - government and non-government housing policies. Housing standards – sanitary facility, food preparation and refuse disposal, space and security, thermal environment, illumination and electricity, water supply, access, site and neighborhood, sanitary condition and smoke detectors. Types of house plans – floor plan, site plan, cross sectional plan, perspective plan, elevation plan and landscape plan. Housing finance - government and non- government finance institutes. Advantages and disadvantages of renting and owning a house. Classification of building materials. Economy in housing construction, principles of house planning (orientation, privacy, grouping, roominess, sanitation, ventilation, flexibility, circulation, economy, furniture requirement). Ergonomics and housing, space management and Interior types based on functional needs – interior for youth, elderly and other special needs, functional design of areas in interior.

Practical

Learning architectural symbols. Drawing different types of house plans, Develop conceptual drawings and floor plans for different income levels and activity groups. House plan for renovation according to needs of residents. Designing of kitchen, bathroom etc. for special needs. Market survey to study the available building materials in the local market.

Lecture	Topics	Weightage
No.		(%)
1	Housing and its importance	5
2	Effect of insufficient housing on social and psychological health	5
3	Factors to be considered in selection of family housing,	5
4 & 5	Factors to be considered while selecting site of house,	5
6	Housing needs at different stages of family life cycle	4
7&8	Rural and urban housing problems in India	4
9,10 &	Housing legislation and regulation - Building Act 1984, Defective	6
11	Premises Act 1972, Disability Discrimination Act 1995	
12 & 13	Housing policies - government and non- government housing	5
	policies and housing schemes.	
14 &15	Housing standards – sanitary facility, food preparation and refuse	5
	disposal, space and security, thermal environment, illumination and	
	electricity,	
16 & 17	Housing standards –water supply, access, site, neighbourhood,	5
	smoke detectors, and sanitary conditions.	
18 &19	Types of house plans – floor plan, site plan, cross sectional plan,	5
	perspective plan, elevation plan and landscape plan.	

2o	Housing finance - government and non- government finance institutes.	5
21	Advantages and disadvantages of renting and owning a house.	5
22	Building materials- Classification	5
23	Economy in housing construction	6
24	Principles of house planning (orientation, privacy, grouping, roominess, sanitation, ventilation, flexibility, circulation, economy, furniture requirement)	6
25 & 26	Ergonomics and housing - space management and Interior types based on functional needs	8
27,28 &29	Interior for youth, elderly and other special needs	6
30,31 & 32	Designing the functional areas in interior.	5
	Total	100

Exercise	Title	
No.		
1	Getting acquainted with the drawing material equipment	
2	Learning architectural symbols	
3	Drawing site plans	
4	Understanding different types of house plans	
5	Develop conceptual drawings	
6	Develop floor plans for various income groups	
7	Drawing of house plans for different activity	
8	Drawing of house plans for different groups	
9	Understanding renovation and preparing rough plans	
10	House plan for renovation according to needs of residents	
11	Enlisting special needs and ergonomic/anthropometric requirements	
12	Rough drawings of kitchen plans for special needs	
13	Designing of kitchen for special needs	
14	Enlisting special needs and ergonomic/anthropometric requirements for bathroom	
	design	
15	Designing of bathroom etc. for special needs	
16	Market survey to study the available building materials in the local market	

Suggested Readings

1.Text Books

- 1. S. Renuka and Mahalaxmi Reddy (2009) Housing and space management ICAR, New Delhi.
- 2. Dorothy Stepat Devan, Kathryn Camp Logan, Darlene M. Kness, Laura Szekely. Macmillan Publishing Co., Inc, New York.

2.Reference Books

- 1. Cherunilam, F. and Heggade, O. (1987). Housing in India. Mumbai: Himalaya Publishing.
- 2. Faulkner, R. and Faulkner, S. (1975). Inside Today's Home. New York: Rinehart and Winston.

- 3. Mathur, G.C. (1993). Low Cost Housing in Developing Countries. New Delhi: Mohan Primlani, Oxford and IBH.
- 4. Tessis Agan, M.S. (1970). The House. New Delhi: Oxford and IBH

3.e-Books

Body space- Anthropometry- ergonomics and design of work http://www.amazon.in

Anthropometry- ebook

http://www.amazon.in

Multi family Housing: The art of sharing

www.ebook 777.com

Body space- Anthropometry- ergonomics and design of work

http://www.amazon.in

Theory

Work-worker and workplace relationship, Principles of ergonomics, Household drudgery-definition, Drudgery reduction, Household equipment- introduction, definition, Classification and base materials used in construction, Impact of household equipment's on work, worker and environment, Equipment design and its effect on body posture, Energy – definition, classification and sources, Renewable and non-renewable energy saving technologies

Practical

Use and care of common household appliances Market survey of available household appliances Report writing Study of labels and specifications of household equipment's Drawing and labeling parts of Electric Iron, mentioning the faults and care. Drawing and labeling parts of Electric Kettle. Mentioning the faults and care. Drawing and labeling parts of Gas Stove mentioning the faults and care. Drawing and labeling parts of Coffee Percolators Mentioning the faults and care. Drawing and labeling parts of Refrigerator Mentioning the faults and care. Drawing and labeling parts of washing machine Mentioning the faults and care. Drawing and labeling parts of vacuum cleaner Mentioning the faults and care .Oven, Microwave Mentioning the faults and care. Air Conditioners Mentioning the faults and care. Video on Anthropometric measurement. Anthropometric measurement of workers. Body map Index. Borg's scale of perceived exertion. Demonstration of /Visit to solar park. Demonstration of solar household Technologies. Demonstration of /Visit to biogas Demonstration of /Visit to zero energy cool chamber etc. Preparation of Scrap book/ charts. Presentation / Demonstration

Lecture	Topics	Weightage
No.		(%)
1	Introduction and Concept of the course	
2 & 3	Household equipment- introduction, definition	5
4 & 5	Classification and base materials used in construction	5
6 & 7	Principles and working of common household equipment	5
8	Work-worker and workplace relationship	5
9	Principles of ergonomics	5
10	Household drudgery- definition, Drudgery reduction	10
11	Impact of household equipment's on work, worker and environment	15
12	Workplace- concept, design, dimension of workplace, evaluation, use of checklist	10
13	Equipment design and its effect on body posture	20
14,15	Energy – definition, classification and sources Renewable and	20
&16	non-renewable energy saving technologies	
	Total	100

Exercise No.	Title	
1	Use and care of common household appliances	
2	Use and care of common electrical household appliances	
3	Market survey of available household appliances	
4	Visit to malls for survey of available household appliances	
5	Compiling data of market survey	
6	Report writing	
7	Study of labels and specifications of household equipment's	
8	Drawing and labelling parts of Electric Iron, mentioning the faults and care.	
9	Drawing and labelling parts of Electric Kettle. Mentioning the faults and care.	
10	Drawing and labelling parts of Gas Stove mentioning the faults and care.	
11	Drawing and labelling parts of Coffee Percolators Mentioning the faults and care	
12	Drawing and labelling parts of Refrigerator Mentioning the faults and care	
13	Drawing and labelling parts of washing machine Mentioning the faults and care	
14	Drawing and labelling parts of vacuum cleaner Mentioning the faults and care	
15	Oven, Microwave Mentioning the faults and care	
16	Air Conditioners Mentioning the faults and care	
17	Video on Anthropometric measurement	
18	Demonstration on recording Anthropometric measurement	
19	Recording Anthropometric measurement of Classmates	
20	Recording Anthropometric measurement of workers	
21	Compilation of data on Anthropometric measurement	
19	Understanding use of Body map Index	
20	Learning application of Borg's scale of perceived exertion	
21	Compiling and presenting data of perceived exertion	
22	Demonstration of /Visit to solar park	
23	Writing report of visit to solar park	
24	Demonstration of solar household Technologies	
25	Writing report of visit to solar household Technologies	

26	Demonstration of /Visit to biogas
27	Writing report of visit to biogas
28	Demonstration of /Visit to zero energy cool chamber etc.
29	Writing report of visit to zero energy cool chamber etc
30	Preparation of Scrap book
31	Preparation of charts
32	Presentation / Demonstration

1.Text Books

- 1. Grandjean, E. (1981). Ergonomics of the Home Taylor and Francis Ltd. New York.
- 2. Grandjean, E. and Kroemer, K.H.E. (1999). Fitting the Task to the Human a Text Book of Occupational Ergonomics. Taylor and Francis, New York.
- 3. Peet, I.J and Arnold, M.G. (1993). Household Equipment. John Wiley, New York.
- 4. Science and Technology for Women. (1993). Complied by Center of Science for Village. Wardha. Department of Science and Technology, New Delhi.

2.Reference Books

- 1. Singh, S. (2007). Ergonomics Integration for Health and Productivity. Himanshu Publication, Udaipur, New Delhi.
- 2. Steidle, Rose and Bratton. (1968). Work in the Home. John Wiley and Sons Inc. New York.
- 3. Swanson, Bettye. (1983). Introduction to Home Management Macmillan Publishing Co. Inc. New York.
- 4. Varghese, M.N., Ogale, N.N. and Srinivasan, K. (1992). Home Management. Wiley Eastern, New Delhi.
- 5. S.Renuka and Mahalaxmi V Reddy. (2009). Housing and Space Management. ICAR New Delhi.

3.e-Books

Ergonomics, human factors-books related to design

www.design in India.net

Ergonomic books

http:www.designer.com

Household Appliances

www.about.com

Household Equipment

Gdpub.info/household-equipment.php

Theory

Residential Building- Concept and types and work zones, Commercial Building- Concept and types and type of spaces Ergonomic Designing of residential spaces- living, dining, kitchen, sleeping etc. Ergonomic Designing of commercial spaces, Design and space organization analysis of independent house of different income groups. Design and space organization analysis of apartments and flats. Understanding on building bye laws- Residential and Commercial buildings specifications essential for building, and service management. Selecting materials and finishing scheme for interiors. Types of fittings, fixtures, furniture, lighting and materials for Residential buildings. Types of fittings, fixtures, furniture, lighting and materials for commercial buildings. Appraisal on space needs in Residential and commercial buildings. Design issues of commercial buildings. Study of commercial interiors for business establishments, hotels/restaurants, hospitals, educational buildings, public service buildings Specifications writing- writing detailed clause by clause specification for materials pre and post execution, tests, mode of measurements, manufacturer's details and specifications etc.

Practical Develop layouts of furniture, lighting, electrical and plumbing for various income groups. Practical applications of design and space organization of apartments and flats and analysis. Cost estimation for designing interiors of various income groups. Planning of ergonomic work layout for a small project (1000 sq.ft.). Planning of ergonomic work layout for commercial areas. Evolving interior decoration details with material sample for the small project. Evolving interior decoration details with material sample for the a large commercial area. Presentation of the detailed work done for small projects. Presentation of the detailed work done for large commercial projects.

Lecture	Topics	Weightage
No.		(%)
1 &2	Residential Building- Concept and types and work zones	05
3&4	Commercial Building- Concept and types and type of spaces	05
5,6,7	Ergonomic Designing of residential spaces- living, dining, kitchen, sleeping etc.	08
8 &9	Ergonomic Designing of commercial spaces	08
10&11	Design and space organization of independent houses of different income groups.	04
12	Design and space organization of apartments and flats	04
13,14	Understanding on building bye laws- Residential and Commercial buildings	05
15 & 16	Regulations and specifications essential for building, and service management- Technical services	05
17 & 18	Criteria for Selecting materials and finishing scheme for interiors	05
19 &20	Types of fittings, fixtures, furniture, lighting and materials for	08

	residential building	
21 & 22	Types of fittings, fixtures, furniture, lighting and materials for	08
	commercial buildings	
23 & 24	Appraisal on space needs in residential buildings	05
25 & 26	Appraisal on space needs in commercial buildings	05
27& 28	Design issues of commercial buildings	05
29 & 30	Study of commercial interiors for business establishments-	15
	hotels/restaurants, hospitals, educational buildings, public	
	service buildings	
31 & 32	Specifications writing,- writing detailed clause by clause	05
	specification for materials pre and post execution ,tests, mode	
	of measurements, manufacturer's details and specifications etc.	
	Total	100

Exercise	Title
No.	
1	Orientation about space drawings
2	Developing layouts of furniture for various income groups
3	Developing layouts of lighting and electrical points for various income groups.
4	Developing layouts of plumbing for various income groups.
5	Practical applications of design and space organization of apartments and flats and
	analysis.
6	Analysis of design and space organization of apartments and flats.
7	Cost estimation for designing interiors for low and middle income groups
8	Cost estimation for designing interiors for high income groups
9	Planning of ergonomic work layout for a small project (1000 sq. ft.)
10	Evolving interior decoration details with material sample for the small project
11	Planning of ergonomic work layout for a large commercial project
12	Evolving interior decoration details with material sample for the a large commercial
	area
13	Presentation of the detailed work done for small projects (I)
14	Presentation of the detailed work done for small projects (II)
15	Presentation of the detailed work done for large commercial projects (I).
16	Presentation of the detailed work done for large commercial projects (II)

Suggested Readings

1.Text books

- 1. Chiara, Joseph D., Julius, Panero... 2001 Time saver standard for interior design space planning 2nd ed. McGraw Hills, N.Y.
- 2. S.Renuka and Mahalaxmi V Reddy. (2009). Housing and Space Management. ICAR New Delhi.

2.Reference Books

1. Bonda P. and Sonsnowchik K. (2007). Sustainable Commercial Interiors. John Wiley and Sons Publication.

- 2. Carol Simpson, Estimation for Interior Designers, Watson Guptill, Rev. Sub edition, 2001.
- 3. Crafti. (2004). The office Designing for Success. 2004. Images Publication
- 4. Francis, D. (1997). The New Office. Conran Octopus Publication
- 5. Harmon. S and Kennon, K. The Codes guidebook for Interiors. Fifth Edition. John Wiley and Sons Publication.
- 6. Leibing W. Ralph (1999). Architectural Working Drawings, 4th edition John Wiley and sons, New York.
- 7. Piotrowski, C. and Rogers, E. (1999). Designing Commercial Interiors. Second Edition. John Wiley and Sons Publication.

3.e-Books

Body space- Anthropometry- ergonomics and design of work

http://www.amazon.in

Anthropometry- ebook

http://www.amazon.in

Multi family Housing: The art of sharing

www.ebook 777.com

Course No. RMCS 357 Title Event Management

Credits 3(0+3) Semester V

Practical

Identifying practical situations for event management. conceptualizing goal and objectives. Overall show management. Exhibit sales and promotion. Attendance promotion .Contract negotiations. Festivals (Diwali, religious ceremonies). Social gathering.Conference/workshop/seminar/congress programming. SWOT analysis of event.

Portfolio preparation; presentation and projection for work. Project report on visit to different types of organizational settings like hotel, guesthouse, hostel, small offices, clubs, fast food centres for management and organization of events. Project development, Project planning

Programme planning and execution. Event communication and sponsorship. Event accountancy .Event marketing and advertising. Live event management. Project preparation

Report presentation

Practical	Exercises		
Exercise	Title		
No.			
1	Orienting students regarding event management		
2	Identifying practical situations for event management		
3	conceptualizing goal		
4	Framing objectives		
5	Planning a show		
6	Organising and work scheduling of the show		
7	Developing a show event with details		
8	Understanding exhibit sales and promotion needs and types		
9	Developing Exhibit sales and promotion plan		
10	Attendance promotion schemes review		
11	Presentation of ideas, concepts for promoting attendance		
12	Understanding and enlisting types of contract		
13	Developing a contract, procuring contract form samples		
14	Contract negotiations		
15	Enlisting Festivals and events and innovative organisation ideas		
16	Organising Festivals (Diwali, religious ceremonies).		
17	Demonstration of innovative organisation		
18	Planning and organising a social gathering		
19	Conducting a Social gathering(Formal, Informal)		
20	Understanding the knack of conducting successful		
	Conference/workshop/seminar/congress programming		
21	Planning details of Conference/workshop/seminar/congress programming		
22	Delegating duties and jobs		
23	SWOT analysis of event		
24	Portfolio types, collecting samples		
25	Portfolio preparation		
26	Presentation and projection for work		
27	Project report on visit hotel, hostel.		
28	Project report on visit to guesthouse		

29	Project report on visit to small offices, clubs, and fast food centres for management
	and organization of events.
30	Project development
31	Project planning
32	Programme planning
33	Programme execution
34	Event communication
35	Event sponsorship
36	Event marketing
37	Event advertising
38	Event accountancy
39	Live event management planning
40	Live event management execution
41	Requirements of a project
42	Formats of projects
43	Developing an idea
44	Planning work layout and demands
45	Detailing of space, design, and placements
46	Preparing project profile
47	Project Presentation
48	Report presentation

1.Text Books

- 1. Kit, Potions, H.P. Bhuson. (1998). Festival and Special Event Management.IBM Cooperation, 60 Renfrew Drive, Suite 105, Markham, Ontario, Canada L3R0E1.
- 2. Allen Johny Festival and Special event Management 2nd John willey2002 Periodical Publ.
- 3. Chand, P.B. Tara Home Management and Housekeeping1st ed. Common Wealth

2. Reference Books

- 1. Aditya, Suvarna. (2003). Event Management Development Institute. I.E.S. Management College. 4th Floor, 791, S.K.Marg, Opp. Lilavati Hospital, Bandra (W), Mumbai 400 050.
- 2. National Institute of Event Management. Ground Floor, Nandavan Building, Corner of Vallabhbhai Road and Ansari Road, Vile Parle (W), Mumbai.
- 3. Sulekha, Narayna. (2001). International Institute of Event Management. SNDT Women's University, Juhu Campus, Juhu Tara Road, Santacruz (W), Mumbai 400 049.
- 4. Kaul, A. The effective presentation 2nd 2005 Multi, Book, GHY

3.e-Books

Event Management

www.pdf drive.com/events management

Event Management

www.acsebooks.com/producteventmanagement

Event Management Resources

https://institute of event management.com

Event Planning

www.eventmanagerblog.com

Course No. RMCS 368 Title Entrepreneurship Development and Business Management Credits 3 (2+1) Semester VI

Theory

Development of entrepreneurship, motivational factors, social factors, environmental factors, characteristics of entrepreneurs, entrepreneurial attributes / competencies. Concept, need and importance of entrepreneurial development. Evolution of entrepreneurship, objectives of entrepreneurial activities, types of entrepreneurs, functions of entrepreneurs, importance of entrepreneurial development, and process of entrepreneurship development.

Infrastructure and support systems- Good policies, schemes for entrepreneurship development; role of financial institutions, and other agencies in entrepreneurship development. Steps involved in functioning of an enterprise. Selection of the product / services, selection of form of ownership; registration, selection of site, capital sources, acquisition of manufacturing know how, packaging and distribution. Planning of an enterprise, project identification, selection and formulation of project; project report preparation, Enterprise Management. Production management – product, levels of products, product mix, quality control, cost of production, production controls, Material management. Production management – raw material costing, inventory control. Personal management – manpower planning, labour turn over, wages / salaries. Financial management /accounting – funds, fixed capital and working capital, costing and pricing, long term planning and short term planning, book keeping, journal, ledger, subsidiary books, annual financial statement, taxation. Marketing management-market, types, marketing assistance, market strategies. Crisis management- raw material, production, leadership, market, finance, natural etc.

Practical

Visit to small scale industries. Interaction with successful entrepreneurs. Visit to financial institutions and support agencies. Preparation of project proposal for funding by different agencies

Lecture	Topics	Weightage
No.		(%)
1	Development of entrepreneurship, motivational factors.	4
2	Social factors, environmental factors, of entrepreneurs.	3
3	Characteristics of entrepreneurs and Entrepreneurial attributes / competencies	6
4	Concept of entrepreneurial development and need of entrepreneurial development:	5
5	Importance of entrepreneurial development	5
6	Evolution of entrepreneurship, objectives of entrepreneurial activities.	2
7	Types of entrepreneurs and Functions of entrepreneurs	5
8	Process of entrepreneurship development.	5
9	Infrastructure and support systems- Good policies and schemes for entrepreneurship development.	7
10	Role of financial institutions, and other agencies in entrepreneurship development.	3
11	Steps involved in functioning of an enterprise.	2
12	Selection of the product / services, selection of form of ownership.	3

	Total	100
32	Leadership, market, finance, etc.	2
31	Crisis management- raw material, production	2
30	Annual financial statement, taxation.	3
29	Book keeping, journal. Ledger, subsidiary books	3
28	Long term planning and short term planning.	3
27	Costing and pricing.	2
26	Financial management /accounting – funds, fixed capital and working capital.	3
25	Labour turn over, wages / salaries.	2
24	Personal management – manpower planning.	3
23	Production management – raw material costing, inventory control.	3
22	Material management	2
21	Cost of production, production controls,	2
20	Product mix, quality control	3
19	Production management – product, levels of products	2
18	Project report preparation, Enterprise Management.	3
17	Selection and formulation of project.	2
16	Planning of an enterprise, project identification.	3
15	packaging and distribution	2
14	Acquisition of manufacturing know how, packaging and distribution.	2
13	Registration, selection of site, capital sources.	3

Exercise	Title
No.	
1	Identifying small scale industries.
2	Preparing recording schedule for taking notes
3	Visit to small scale industries.
4	Compiling information of Small scale industries
5	Report writing on data collected for Small scale industries
2	Understanding and enlisting good characteristics of entrepreneurs
3	Preparing a schedule for interviewing entrepreneurs
4	Identifying successful entrepreneurs /Visiting MSSIDC
5	Interaction with successful entrepreneurs
6	Writing report/ case studies of successful entrepreneurs
7	Identifying and enlisting financial and support agencies
8	Visit to financial institutions and support agencies
9	Collection of data on varied schemes run by the Govt. and private agencies for
	funding entrepreneurs
10	Compilation of data
11	Report writing
12	Presentation of report on entrepreneurs
13	Understanding importance of project proposal for funding
14	Procuring formats and layouts for preparing project for funding
15	Visiting agencies for project proposal evaluation and completing the formalities
16	Finalising project proposal for funding by different agencies and presentation

1.Text Books

- 1. Vasant Desai. (2010). Small-scale Industries and Entrepreneurship. Himalaya Publishing House. PVT. LTD. Mumbai 400004.
- 2. Vasant Desai. (2011). Entrepreneurial Development Potential beyond Boundaries; Himalaya Publishing House PVT. LTD. Mumbai 400004.
- 3. Sagar Mondel and G. L. Ray (2009). The book of Entrepreneurship and Rural Development. Kalyani Publishers, New Delhi, 110002.
- 4. David H. Holt (2009). Entrepreneurship. New Venture creation. PHI Learning Private Limited, New Delhi 110001.

2.Reference Books

1.Larry Richman (2009). Project Management Step-By-Step. PHI Learning Private Limited, New Delhi 110001.

2.E. D. Setty (2009). A practical Handbook on training. Amol publications PVT. LTD., New Delhi, 110002.

3.e-Books

The Entrepreneurs Guide to Personal Finance

https://www.moneymanagement.org > ... > eBook

Entrepreneurship books

Bookboon.com/en/entrepreneurship

Student READY Programme 40(0+40)

Course No. SRP 471 Title Implant Training

Credits 10 (0+10) Semester VII

Course No. SRP 472 Title Rural Awareness Work Experience

Credits 10 (0+10) Semester VII

Course No. SRP481 Title Experiential Learning

Credits 20(0+20) Semester VIII

DEPARTMENT OF FOOD SCIENCE AND NUTRITION

Course No. FSN 111 Title Food Science and Processing Credits 3 (2+1) Semester I

Theory

Food groups, food guide pyramid and its importance, foods as a source of nutrients Objectives of cooking, processing, preservation, methods of cooking with their merits and demerits. Effect of cooking and heat on nutritive value of foods. Cereals and millets Composition and nutritive value, types, storage, processing. Cereal cookery. Gluten and factors affecting the gluten formation, cereal starch, gelatinization, dextrinisation. Pulse cookery. Effect of cooking, factors affecting cooking quality, toxic constituents in pulses. Nuts and oilseeds- Composition and nutritive value and role in cookery. Milk and milk products: Composition and nutritive value, properties, processing and packaging, effect of heat, acid, processed and indigenous milk products and their quality, role in cookery.

Eggs- Structure, composition and nutritive value, storage, evaluation of quality of egg, role of egg in cookery. Flesh foods- Structure, composition and nutritive value, types, storage, evaluation of quality and selection of meat, fish and poultry, methods of cooking, brief description of ageing, tenderization and curing. Vegetables and fruits. Composition and nutritive value, types, storage, selection, effect of processing, preservation and cooking on different pigments of both fruits and vegetables. Sugar, Composition and nutritive value, type, function, properties, stages in sugar cookery, role of sugar in cookery. Fat and oils Composition, nutritive value, role in cookery and importance in daily diet. Beverages and appetizers. Classification, use in everyday lives with special reference to tea and coffee, Processed and convenience foods. Ready to eat foods, frozen foods, dehydrated foods, instant food mixes.

Practical

Knowledge of different food stuffs in English, Hindi and local language. Terms used in cookery, weights and measures; identification and use of different kitchen items and equipment's. Identification and listing of various food groups; market survey of processed and preserved foods. Cereal cookery. Preparation of plain rice (pressure cook), lime-rice, pulao, paratha, chapatti, upma and halwa. Pulse cookery. Preparation of plain dal, dal with green, pakoras, sambar. Preparation of cereal and pulse combined recipes- Idlis, dosa.. Nuts and oilseeds. Preparation of chikki, til ladoos, Milk cookery. Preparation of Shrikhand and paneer. Egg cookery. Selection of egg, preparation of boiled egg, scrambled egg, poached egg. Meat and fish cookery. Preparation of meat and fish based items. Fruits and vegetables cookery: Preparation of sauces, pickles, squash, chips. Sabjis and salad Sugar cookery. Process of caramalization; demonstration of 1-thread and 2-thread consistency. Fats and oils. Preparation puris, cakes and biscuits. Appetizers. Preparation of tea and coffee, egg nog. Visit to food industries.

Lecture No.	Topics	Weightage (%)
1 &2	Food groups, Food guide pyramid and its importance, Foods as a source of nutrients	7.5
3 &4	Processing, preservation	7.5
5&6	Objectives of cooking, Methods of cooking with their merits and demerits	7.5

7	Effect of cooking and heat on nutritive value of foods.	2.5
8 to 10	Cereals and millets: Composition and nutritive value, types, storage and processing. Cereal cookery. Gluten and factors affecting the	7.5
	gluten formation, cereal starch, gelatinization, dextrinisation.	
11 &12	Pulse cookery: Effect of cooking, factors affecting cooking quality, toxic constituents in pulses.	7.5
13&14	Nuts and oilseeds: Composition and nutritive value and role in cookery.	7.5
15 to17	Milk and milk products: Composition and nutritive value, properties, processing and packaging, effect of heat and acid. Processed and indigenous milk products and their quality, role in cookery.	7.5
18 to 20	Eggs: Structure, composition and nutritive value and storage. Evaluation of quality of egg, role of egg in cookery.	7.5
21&22	Flesh foods: Structure, composition and nutritive value. Types and storage. Evaluation of quality and selection of meat, fish and poultry, methods of cooking, brief description of ageing, tenderization and curing.	7.5
23 to 25	Vegetables and fruits: Composition and nutritive value, types, storage, selection, effect of processing, preservation and cooking on different pigments of both fruits and vegetables.	7.5
26&27	Sugar: Composition and nutritive value, types, functions and properties. Stages in sugar cookery and role of sugar in cookery.	7.5
28 & 29	Fat and oils: Composition, nutritive value, role in cookery and importance in daily diet.	5
30 &31	Beverages and Appetizers: Preparation of tea, coffee and egg nog.	7.5
32	Processed and convenience foods. Ready to eat foods, frozen foods, dehydrated foods and instant food mixes.	2.5
	Total	100

Exercise	Title	
No.		
1	Knowledge of different food stuffs in English, Hindi and local language.	
2	Terms used in cookery; identification and use of different kitchen items.	
3	Weights and measures.	
4	Market survey of processed and preserved foods.	
5	Cereal cookery- Preparation of plain rice (pressure cook), lime-rice, pulao, paratha,	
	chapatti, upma and halwa.	
6	Pulse cookery - Preparation of plain dal, dal with green, pakoras and sambar.	
7	Preparation of cereal and pulse combined recipes- Idli, dosa and uttapa.	
8	Nuts and oilseeds- Preparation of chikki, til ladoos,	

9	Milk cookery Preparation of Shrikhand and paneer.
10	Egg cookery. Selection of egg, preparation of boiled egg, scrambled egg and poached
	egg
11	Meat and fish cookery - Preparation of meat curry, kabab and fish curry, fried fish.
12	Fruits and vegetables cookery - Preparation of sauces, pickles, squash,
13	Preparation of chips. Sabjis and salad
14	Sugar cookery - Process of caramalization. Demonstration of
	1-thread and 2-thread consistency of Sugar syrup.
15	Appetizers. Preparation of tea and coffee, egg nog.
16	Visit to food industries.

1.Text Books

- 1. Srilakshmi, B. (2008) Food Science, New Age International (P) Ltd Publishers, Mumbai.
- 2. Sumati R. Mudambi, Shalini M. Rao and M.V. Rajagopal (2006) Food Science Revised second edition New Age International (p) Ltd. Publication .New Dehli.
- 3. Shakuntala Manay N. and Shadaksharaswamy M. (2008) Foods: Facts and Principles. New Age International (P) Ltd Publishers, Mumbai.

2.Reference Books

- 1. Vijaya Khader (2001) Text book of Food Science and Technolongy Published by Indian council of Agricultural Research, New Delhi.
- 2. R. Rajalakshmi revised by K.K. Sakarish (2013) Applied Nutrition, Oxford & IBH Publishing Co.Pvt. Ltd. New Delhi.
- 3. Potter, N.N. (1996). Food Science. The AVI Publishing Company, Inc., Westport, Connecticut.

3.e-Books

1. Food Science - Authors: Norman N. Potter, Joseph H. Hotchkiss

ISBN: 978-1-4613-7263-9 (Print) 978-1-4615-4985-7 (Online)

2. Introduction to Food Science and Technology

Authors: G.F. Stewart Maynard Amerine

e-Book ISBN: 9780323138598

Title Principles of Human Nutrition Semester II

Theory

Historical development of nutrition. Relationship of nutrition to health, growth and human welfare; Definitions of terms used in nutrition- Recommended dietary allowances; balanced diet; health; functional food; phytochemicals; Nutraceuticals; dietary supplements of RDA.. Energy- Units, sources and requirements, fuel value of foods, methods of measuring energy value of food, energy requirement of body, physical activity and thermogenic effect of food, BMR- methods of measurement, factors affecting BMR. Digestion and absorption of carbohydrates, fats and proteins. Carbohydrates- Types, functions, sources, requirement, Deficiency conditions affected by carbohydrates, significance of dietary fibre. Lipids- Types, functions, sources, requirement, Proteinstypes, functions, sources, requirement, deficiency disorders and protein energy malnutrition. Vitamins-Classification, functions, sources, requirement, deficiency and toxicity of the following- (i) Fat soluble vitamins-A, D, E, K; (ii) Water soluble vitamins – C, B Complex (thiamine, riboflavin, niacin, and folic acid). Minerals- Classification, functions, sources, requirements, deficiency and toxicity of calcium, phosphorus, iodine, iron, sodium, potassium. Water, Functions, sources, distribution in body, water and electrolyte balance.

Practical

Serving size and number of servings of common dishes. Planning of nutrient rich dishes-protein, calcium, iron, vitamin A, riboflavin and ascorbic acid. Planning of low cost nutritious recipes.

Lecture No.	Topics	Weightage (%)
1	Historical development of nutrition	5
2	•	5
2	Relationship of nutrition to health, growth and human welfare; Definitions of terms used in nutrition.	3
3&4	Recommended dietary allowances; balanced diet and health; functional foods; phytochemicals; nutraceuticals	7.5
5 to 8	Energy- Units, sources and requirements, fuel value of foods.	7.5
9 to 11	Methods of measuring energy value of food, energy requirement of body, physical activity and thermogenic effect of energy requirement of body, physical activity.	7.5
12 & 14	BMR- methods of measurement, factors affecting BMR.	7.5
15 to 17	Carbohydrates- Types, functions, sources, requirement, Digestion and absorption of carbohydrates. Deficiency conditions affected by carbohydrates, significance of dietary fibre.	10
18 & 19	Lipids- Types, functions, sources, requirement, Digestion and absorption of lipids.	7.5
20 to 22	Proteins- types, functions, sources, requirement, Digestion and absorption of Protein. Deficiency disorders and protein energy malnutrition.	8.75
23 to 25	Vitamins- Classification, functions, sources and	10

	requirement. Deficiency and toxicity of the following- (i) Fat soluble vitamins-A, D, E,K.	
26 & 27	Water soluble vitamins – C, B Complex (thiamine, riboflavin, niacin and folic acid).	7.5
28 to 30	Minerals- Classification, functions, sources and requirements. Deficiency and toxicity of calcium, phosphorus, iodine, iron, sodium, potassium.	8.75
31&32	Water - Functions, sources. Distribution in body, water and electrolyte balance.	7.5
	Total	100

Title
Serving size of different dishes.
Serving number of common dishes.
Planning of protein rich dishes from animal foods.
Planning of protein rich dishes from plant foods.
Planning of Calcium rich dishes from cereals, pluses and vegetables.
Planning of Calcium rich dishes from nuts and oil seeds, milk and milk
products, meat and meat products.
Planning of Iron rich dishes from animal foods.
Planning of Iron rich dishes from plant foods.
Planning of Thiamine rich dishes from cereals, pluses and vegetables.
Planning of Thiamine rich dishes from nuts and oil seeds, milk and milk
products, meat and meat products.
Planning of Riboflavin rich dishes from cereals, pluses and vegetables.
Planning of Riboflavin rich dishes from nuts and oil seeds, milk and milk
products, meat and meat products.
Planning of Ascorbic acid rich dishes from fruits.
Planning of Ascorbic acid rich dishes from vegetables.
Planning of low cost nutritious recipes from cereal, pluses, vegetables and
fruits.
Planning of low cost nutritious recipes from nuts and oil seeds, milk and
milk products, meat and meat products.

Suggested Readings

1.Text books

- 1. Srilakshmi, B. (2008) Nutrition Science, New Age International Publication, Mumbai.
- 2. Corinne H. Robinson. () Text Book of Normal and Therapeutic Nutrition. Publication, Oxford & IBH Publishing Co. New York.
- 3. Agarwal, A and Udipi, S. (2014). Text Book of Human Nutrition. Jaypee Medical Publication, New Delhi.

2. Reference Books

- 1. Helen Andrews Guthrie (1975) Introductory Nutrition, Third Edition, The C. V. Mosby Company, London.
- 2. Mahtab S. Bamji, N. Pralhad Rao and Vinodini Reddy (1999) Text book of Human Nutrition, Oxford & IBH Publishing Co. Pvt. Ltd. New Dehli.
- 3. SIR Stanly Davidson, R. Passmore, J.F. Brock & A.S. Truswell (1975) Text Book of Human Nutrition & Dietetics, Publication Churchill Licingstone.

3.e-Books

- 1. Introduction to Human Nutrition-Hester H Vorster http://www.pdfdrive.com/introduction-to-human-nutrition-e8482943.html
- 2. Principles of Human Nutrition (eBook, PDF)

 $http://www.buecher.de/shop/ernaehrungslehre/principles-of-human-nutrition-ebook-pdf/eastwood-martin/products_products/detail/prod_id/38280824/\\$

3. Human Nutrition - Authors: Catherine Geissler Hilary Powers

eBook ISBN:9780702060885 eBook ISBN: 9780702044373 Course No. FSN 233 **Credits** 3 (2+1)

Title Food Standards and Quality Control Semester III

Importance of quality control and assurance. Food laws and regulations. Prevention of Food Adulteration Act, Fruit Product Order, Agmark, Essential Commodity Act, Consumer Protection Act, Bureau of Indian Standards, Codex Standards. Specifications and application of food standards for raw materials and food products Food additives. Preservatives, coloring agents, antioxidants, emulsifying agents, leavening agents and stabilizing agents Various methods for the assessment of quality of different foods .Selection of sensory panel and sensory evaluation of food products. Food safety risks and hazards. Assessment and prevention of food adulteration. Food packaging and packaging material.

Practical

Theory

Threshold test, Sensory evaluation, Sensory and nutritional evaluation of some finished products. Detection of adulterants and preservatives in products. Sampling of milk and milk products for different tests, platform test, clot in boiling test (COB) test, alcohol test, sediment test, two minute Reasurian test. Determination of fat, acidity & specific gravity of milk.

Visit to milk processing plant and report writing.

Lecture No.	Title	Weightage (%)
1	Importance of quality control and assurance.	5
2	Food laws and regulations.	5
3 & 4	Fruit Product Order and Agmark.	5
5,6,7 & 8	Prevention of Food Adulteration Act, Essential Commodity Act, Consumer Protection Act.	7.5
9 & 10	Bureau of Indian Standards, Codex Standards.	5
11 & 12	Specifications and application of food standards for raw materials and food products.	7.5
13	Food additives.	5
14 & 15	Preservatives, colouring agents.	7.5
16 & 17	Antioxidants.	7.5
18	Emulsifying agents, leavening agents and stabilizing agents.	5
19&20	Various methods for the assessment of quality of different foods.	7.5
21 to 25	Selection of sensory panel and sensory evaluation of food products.	10
26 & 27	Food safety; Risks and hazards.	5
28 & 29	Assessment and prevention of food adulteration.	7.5
30 to 32	Food packaging and packaging materials.	10
	Total	100

Exercise No.	Title
1	Threshold test.
2	Sensory evaluation.
3	Sensory evaluation of prepared products.
4	Nutritional evaluation of prepared products.
5	Method of detection of adulteration.
6	Detection of adulterants and preservatives in products.
7	Preparation of reagents and cleaning of glassware.
8	Sampling of milk and milk products for different tests.
9	Platform test and Clot in boiling test (COB).
10	Alcohol test, Sediment test and Two minute Reasurian test.
11	Determination of fat of milk.
12	Determination of acidity of milk.
13	Determination of specific gravity of milk
14	Formula, Calculation and comparison of values with standards.
15	Visit to milk processing plant.
16	Report writing.

Suggested Readings

1.Text Books

- 1. Swaminathan, M. (1999. Food Science, Chemistry and Experimental Foods. 2nded. The Banglore Printing and Publishing Co., Bangalore.
- 2. Maney, N.S. and Shadaksharswamy, M. (1996). Food Facts and Principles. 2nded. New Age International Pvt. Limited, New Delhi.
- 3. Kalia, M. and Sood, S. (2010). Food Preservation and Processing. Revised Edn. Kalyani Publishers, New Delhi

2. Reference Books

- 1. Potter, N.N. (1996). Food Science. The AVI Publishing Company Inc., Westport, Connecticut.
- 2. Jellinek, G. (1985). Sensory Evaluation of Foods: Theory and Practice. Ellis Honwood Ltd. Chichester, England.
- 3. Manual of Food Standards and Quality Control. (2014). Dept. of Foods and Nutrition, CCS HAU, Hisar.

3.e-Books

1. Food Quality Assurance: Principles and Practices

Author: Inteaz Alli ISBN 9781566769303

- 2. E-Book-in-PDF-on-Food-Laws--CD-ILBCO-INDIA (Version 2.1)
- 3.http://supremecourtcaselaw.com/Food Safety Standards Act Rules Regulations.htm

Course No. FSN 234 Title Food Preservation and Storage Credits 2(0+2) Semester III

Practical

Preservation, Principles of preservation Market survey of raw and preserved foods. Preparation of preserved products. Squash, cordial, crush, jams, jellies, marmalade, candy, preserves, murabbas, pickles with and without oil, chutneys, ketchup, sauces, candies, toffees and syrup. Shelf life and sensory evaluation of developed products. Demonstration on canning and bottling of fruits and vegetables. Visits to food processing and preservation units.

Practical Exercises

Exercise No.	Title
1	Principles of food preservation.
2	Market survey of raw and preserved foods.
3	Preparation of Squash.
4	Preparation of cordial.
5	Preparation of crush.
6	Preparation of jams (Apple).
7	Preparation of jams (mix fruit jam).
8	Preparation of jellies (Guava).
9	Preparation of jellies (Apple).
10	Preparation of marmalade (orange).
11	Preparation of candy (Amla).
12	Preparation of candy (Papaya).
13	Preparation of preserve (Fruits).
14	Preparation of preserve (Vegetable).
15	Preparation of murabbas (Amla).
16	Preparation of murabbas (Mango).
17	Preparation of pickles with oil (Tomato).
18	Preparation of pickles with oil (Tamarind).
19	Preparation of pickles with oil (Mango).
20	Preparation of pickles with oil (Lime and green chilli).
21	Preparation of pickles without oil (Bitter gourd).
22	Preparation of chutneys (Tomato).
23	Preparation of chutneys (Tamarind).
24	Preparation of sauces (Tomato).
25	Preparation of sauces (green chilli).
26	Preparation of Toffes (Milk).
27	Preparation of paneer.
28	Preparation of syrups from citrus fruits.
29	Shelf life of developed products.
30	Sensory evaluation of developed products.

31	Demonstration of canning and bottling of fruits and vegetables.
32	Visit to food processing and preservation units.

1.Text Books

- 1. Khadder V., (1999), Text book of Food, Storage and Preservation. Kalyani Publishers, New Delhi.
- 2. Kalia, M. and Sood, S. (2010). Food Preservation and Processing. Revised Edition, Kalyani Publishers, New Delhi.
- 3. Girdhari Lal, G.S. Siddappa and G.L. Tandon (1959) ICAR publication, New Delhi.

2. Reference Books

- 1. Jood, S. and Khetarpaul, N. (2002). Food Preservation. Geeta Somani Agrotech Publishing Academy, Udaipur.
- 2. Sivasankar, B. (2002). Food Processing and Preservation. PHI Learning Pvt. Ltd. Delhi.
- 3. Sehgal, S., Grewal, R.B., Kawatra, A. and Kaur, Y. (1997). Practical Aspects of Preservation. Directorate of Publications. Haryana Agricultural University, Hisar.

3.e-Books

1. Food Preservation & Storage at Home - A Step by Step Guide to Canning, Pickling, Dehydrating, Freezing & Safely Storing Food for Later Use Kindle Edition

by **Susan Burnetter** (Author)

https://7 rqmz 5. files. wordpress. com/2017/02/ebook-b00 fmab drm-food-preservation-storage-home-dehydrating-ebook.pdf

2. Handbook of Food Preservation

AUTHOR: SHAFIUR REHMAN

https://7rqmz5.files.wordpress.com/.../ebook-b00fmabdrm-food-preservation-st

Course No. FSN 245 Credits 2 (1+1) Theory

Title Normal Nutrition Semester IV

Determination of nutritional requirements: Recommended dietary allowance, calorie consumption unit. Food exchange list method: Cereals, pulses, fruits and vegetables, milk and milk product, Nuts and oil seed, condiments and spices, fishes and other sea foods, meat and meat product and poultry. Maternal nutrition: Nutrition during pregnancy: Physiological changes(gastrointestinal changes, placenta, Hormonal changes, Blood Volume) and nutritional requirements during pregnancy. Nutrition during lactation: Physiological changes and nutritional requirements during lactation. Nutrition during infancy: Growth, development and nutritional requirement, importance of breast feeding, weaning and supplementary foods.

Nutrition for pre schoolchildren: Growth and development, food habits and nutritional requirements. Nutrition for School age children: Growth and development, food habits and nutritional requirements. Nutrition during adolescence: Growth and development, food habits and nutritional requirements. Geriatric nutrition: Physiological and psychological changes during old age, nutritional requirements and consideration for diet planning.

Practical

Standardization of serving size portions – cereals and pulses, fruits and vegetables, milk and milk products. Planning of diets for Infancy, preschool age, school age, adolescence. Planning of cost effective diets for adults - sedentary working, moderate and heavy working. Planning of diets for old age, pregnanat and lactating women. Planning of diets for special occasion – birthdays, festivals. Planning of packed lunches

Lecture	Topics	Weightage
No.		(%)
1	Determination of nutritional requirements: Recommended	10
	dietary allowance, calorie consumption unit	
2	Factors affecting meal planning	10
3 & 4	Maternal nutrition:	15
	Nutrition during pregnancy: Physiological changes	
	(gastrointestinal changes, placenta, Hormonal changes, Blood	
	Volume) and nutritional requirements during pregnancy	
5& 6	Nutrition during lactation: Physiological changes and	15
	nutritional requirements during lactation.	
7 & 8	Nutrition during infancy :Growth, development and nutritional	15
	requirement, importance of breast feeding, weaning and	
	supplementary foods.	
9 & 10	Nutrition for pre schoolchildren: Growth and development,	10
	food habits and nutritional requirements	
11	Nutrition for School age children: Growth and development,	10
	food habits and nutritional requirements.	
12 & 13	Nutrition during adolescence :Growth and development, food	10
	habits and nutritional requirements.	

14 &15	Geriatric nutrition: Physiological and psychological changes during old age, nutritional requirements and consideration for diet planning.	20
16	Meal planning for special occasions.	10
	Total	100

Exercise	Title
No.	
1	Standardization of serving size portions – cereals and pulses.
2	Standardization of serving size portions – fruits and vegetables.
3	Standardization of serving size portions – milk and milk products.
4	Planning of diets for Infancy.
5	Planning of diets for preschool age.
6	Planning of diets for school age.
7	Planning of diets for adolescence.
8	Planning of cost effective diets for adults - sedentary working.
9	Planning of cost effective diets for adults – moderate working.
10	Planning of cost effective diets for adults – heavy working.
11	Planning of diets for old age.
12	Planning of diets for pregnant women.
13	Planning of diets for lactating women.
14	Planning of diets for special occasion - birthdays.
15	Planning of diets for special occasion s- festivals.
16	Planning of packed lunches.

Suggested Readings

1. Text Books

- 1. Corinne H. Robinson. (1977) Text Book of Normal and Therapeutic Nutrition Publication, Oxford & IBH Publishing Co, New York, USA and New Delhi
- 2. Swaminathen M. (1990) Essentials of Food and Nutrition. Bangalore Printing and Publishing Co. Ltd, Bangalore
- 3. Helen Andrews Guthrie (1975) Introductory Nutrition, Third Edition, The C. V. Mosby Company, London.
- 4. B. Srilaxmi (2014) Dietetics, 7th Edi. New Age International Publication, Mumbai.
- 5. Dr. Shanti Ghosh (1992) The Feeding and Care of Infants and Young Children.6th Edition, Voluntary Health Association of India, New Delhi.

2. Reference Books

1. Raghuvanshi, R.S. and Mittal, M. (2014). Food Nutrition and Diet Therapy. Westvills Publication, Delhi.

- 2. Agarwal, A and Udipi, S. (2014). Text Book of Human Nutrition. Jaypee Medical Publication, Delhi.
- 3. Sumati R. Mudambi and M.V. Rajagopal (2005). Fundamentals of Foods and Nutrition, 4th edition, New Age International (p) Ltd. Publication, New Delhi.

3.e-Books

1. Understanding Nutrition Eleanor
Nhttps://books.google.co.in/books/about/Understanding_Nutrition.html?id=OQgLAAAAQBAJ&redir
_esc=yoss Whitney, Sharon Rady Rolfes

2. Krause's Food & the Nutrition Care Process, 13th Edition

By L. Kathleen Mahan, MS, RD, CDE, Janice L Raymond, MS, RD, CD and Sylvia Escott-Stump, MA, RD, LDN

https://evolve.elsevier.com/cs/product/9781437722338

Course No. FSN 356

Title Therapeutic Nutrition

Credits 3 (2+1)

Semester V

Theory

Importance and scope of diet therapy. Modification of normal diet to therapeutic dietsMethods of feeding - Normal (clear fluid diet, full fluid diet and soft diet) and artificial(enteral and parenteral feeding methods). Fever: Aetiology, symptoms and dietary management in acute and chronic fevers-Typhoid, influenza, tuberculosis. Gastrointestinal disorders: Aetiology, symptoms and dietary management in gastrointestinal disorders - Diarrhoea, constipation, peptic ulcer. Liver diseases: Aetiology, symptoms and dietary management in liver diseases - Hepatitis, jaundice, cirrhosis of liver. Cardiovascular disease: Aetiology, symptoms and dietary management in cardiovascular disease - Atherosclerosis and hypertension. Diabetes mellitus: Aetiology, symptoms and dietary management. Problems of weight control: Overweight and obesity, dietetic management and prevention.

Practical

Planning of diets for following diseased condition - diarrhea, constipation, fever, hepatitis, hypertension, diabetes mellitus, overweight / obesity, under weight.

Lecture	Topics	Weightage
No.		(%)
1, 2	Importance and scope of diet therapy	7.5
3,4	Modification of normal diet to therapeutic diets	7.5
5 to 7	Diet based on consistency :Normal (clear fluid diet, full fluid diet and soft diet) Methods of feeding : Normal and artificial (enteral and	10
	parenteral feeding methods).	
8 to 12	Fever :Aetiology, symptoms and dietary management in acute and chronic fevers – Typhoid, influenza, tuberculosis.	15
13 to 16	Gastrointestinal disorders: Aetiology, symptoms and dietary management in gastrointestinal disorders – Diarrhoea, constipation, peptic ulcer.	15
17 to 20	Liver diseases: Aetiology, symptoms and dietary management in liver diseases — Hepatitis, jaundice, cirrhosis of liver.	11.25
21 to 25	Cardiovascular disease: Aetiology, symptoms and dietary management in cardiovascular disease – Atherosclerosis and hypertension.	11.25
26 to30	Diabetes mellitus : Aetiology, symptoms and dietary management.	10
31 to 32	Problems of weight control: Overweight and obesity, dietetic management and prevention.	10
	Total	100

Exercise	Title
No.	
1	Planning of liquid diet.
2	Planning of diet for a person suffering with diarrhoea – liquid diets.
3	Planning of soft diet.
4	Planning of diet for a person suffering with peptic ulcer.
5	Planning of diet for a person suffering with constipation.
6	Planning of diet for a person suffering with fever.
7	Planning of diet for a person suffering with tuberculosis.
8	Planning of diet for a person suffering with liver diseases.
9	Planning of diet for a person suffering with hepatitis.
10	Planning of diet for a person suffering with heart diseases.
11	Planning of diet for a person suffering with hypertension.
12	Planning of diet by using low glycaemic index foods.
13	Planning of diet for a person suffering with diabetes mellitus.
14	Planning of diet for the overweight.
15	Planning of diet for the obese person.
16	Planning of diet for the under weight person.

Suggested Readings

1.Text Books

- Corinne H. Robinson. () Text Book of Normal and Therapeutic Nutrition. Publication,
 Oxford & IBH Publishing Co. New York
- 2. SIR Stanly Davidson, R. Passmore, J.F. Brock & A.S. Truswell (1975) Text Book of Human Nutrition & Dietetics, Publication Churchill Licingstone
- 3. Srilaxmi B. (2014) Dietetics 7^{th} Edition .New Age Publication, Mumbai.
- 4. Raghuvanshi, R.S. and Mittal, M. (2014). Food Nutrition and Diet Therapy. Westvills Publication, Delhi.
- 5. Agarwal, A and Udipi, S. (2014). Text Book of Human Nutrition. Jaypee Medical Publication, NewDelhi.

2.Reference Books

- Subangini A. Joshi (2010) . Text Book of Nutrition and Dietetics. Megraw Hill Education (India) Private Limited
- 2. Vishwanth M. Sardesai (2003). Text Book of Intoduction To Clinical Nutrition Publication, Marcel Dekker, Newyork.

3. Dr. A.V.S.S. Rama Rao (2006). Text Book of Biochemistry Publication, USB Pablisher's Distrbutors Pvt. Ltd.

3.e-Books

1. Community Nutrition For Developing Countries PDF, ePub eBook
https://www.google.co.in/?gfe_rd=cr&ei=HPWzWLD_EM708we0hYU4&gws_rd=ssl#q=E+BOOK+ON++COMMUNITY+NUTRITION++AND+EDUCATION+PDF&*

2. Nutritional Problems and Intervention Strategies in India

https://www.researchgate.net/publication/266970826 Nutritional Problems and Intervention Strategies in India

Course No. FSN 367 Credits 3 (1+2) Title Food Analysis Semester VI

Theory

Sampling and sampling techniques. Principles and methods of food analysis- Moisture, ash, crude fat, crude fibre, crude protein and carbohydrates by difference. Basic principles- Refractometry, polarimetry, densitometry, HPLC, GLC, spectrophotometry, electrophoresis, automatic amino acid analyzer. Bioassays for protein quality of grains Chemical, microbiological. Flurometric and colorimetric methods of analysis of fat soluble and water soluble vitamins Principles and methods for estimation of minerals. Atomic absorption spectroscopy, colorimetric, titrimetric and gravimetric methods .

Practical

Safety hats to be followed in the biochemistry laboratory . Introduction of glassware used in the laboratory. Introduction of equipment used in the laboratory . Preparation of different normality solution. Proximate analysis: Moisture, ash, crude fat, crude fibre, crude protein and carbohydrate by difference. Demonstration of kjelplus, , sox-plus. Estimation of reducing and non-reducing sugars. Estimation of starch content of cereals. Determination of iodine value and saponification number .Estimation of minerals, iron and, calcium. Estimation of Ascorbic acid.

Lecture No.	Topics	Weightage (%)
1	Sampling and sampling techniques.	12.5
2&3	Principles and methods of proximate analysis, Moisture and ash.	10
4 & 5	Crude fat and Crude fibre.	10
6& 7	Crude protein and carbohydrates by difference method.	10
8 & 9	Basic principles of Refractometry, Polarimetry and Densitometry.	10
10	HPLC, GLC spectrophotometry and electrophoresis. Automatic amino acid analyzer.	15
11	Bioassays for protein quality of grains Chemical and microbiological.	10
12&13	Fluorometric and colorimetric methods of analysis of fat soluble and water soluble vitamins.	10
14&15	Principles and methods for estimation of minerals-Atomic absorption spectroscopy	5
16	Colorimetric titrimetric and gravimetric methods.	7.5
	Total	100

Exercise No.	Title
1	Safety hats to be followed in the biochemistry laboratory.
2	Introduction of glassware used in the laboratory.
3	Introduction of equipment used in the laboratory.
4	Tips to followed while preparation of reagents.
5	Collection of distilled water.
6	Preparation of different normality solution.
7	Procedure of moisture content.
8	Determination of moisture content.
9	Procedure of crude fat.
10	Estimation of crude fat.
11	Procedure of crude fibre .
12	Estimation of crude fibre.
13	Procedure of protein.
14	Estimation of protein.
15	Procedure of ash.
16	Estimation of ash.
17	Procedure of carbohydrate.
18	Calculation of carbohydrate content.
19	Demonstration of kjelplus.
20	Demonstration of sox-plus.
21	Procedure of reducing and non-reducing sugars.
22	Estimation of reducing sugars.
23	Estimation of non-reducing sugars.
24	Estimation of starch content of cereals.
25	Procedure of iodine value and saponification number of fats.
26	Determination of iodine value and saponification number of fats.
27	Procedure and reagent preparation of iron estimation.
28	Estimation of iron.
29	Procedure and reagent preparation of calcium.
30	Estimation of calcium.

31	Procedure and reagent preparation of Ascorbic acid.
32	Estimation of. Ascorbic acid.

1.Text Books

- 1. AOAC. (2000). Association of Official Analytical Chemists. Washington, DC.
- 2. Pearson, D. (1973. Laboratory Techniques in Food Analysis. Butterworths and Co., London.
- 3. Pomeranz and Yeshajahu. (1987). Food Analysis Theory and Practice. 2nd ed. AVI Publ.Company, Westport.
- 4. Joslyn, M.A. (1970). Methods in Food Analysis: Physical, Chemical and Instrumental Methods of Analysis. Academic Press. New York

2.Reference Books

- 1. NIN. (2003). A Manual of Laboratory Techniques.
- 2. Syed H. M., Syed Ismail, Deshpande H.W., Kulkarni K.D. and kulkarni. D. N. (2007) Methods in Food Analysis Chemical Instrumental and Sensory, MAU Publication, Parbhani.
- 3. A .G .Woodman (2012), Food Analysis, Typical Methods and the Interpretation of Results, 4th Edition

3.e-Books

1. Food Analysis

Authors: Dr. S. Suzanne Nielsen

ISBN: 978-1-4419-1477-4 (Print) 978-1-4419-1478-1 (Online)

2. Handbook of Food Analysis, Third Edition - Two Volume Set

Leo M.L. Nollet, Fidel Toldra

ISBN 9781466556546 - CAT# K15423

http://link.springer.com/book/10.1007%2F978-1-4419-1478-1

3. Methods in Food Analysis

Rui M. S. Cruz, Igor Khmelinskii, Margarida Vieira

ISBN 9781482231953 - CAT# K22828

https://www.crcpress.com/Methods-in-Food-Analysis/Cruz-Khmelinskii-Vieira/p/book/9781482231953

Course No. FSN 368 Title Community Nutrition and Education
Credits 3 (2+1) Semester VI
Theory

Assessment of nutritional status. Clinical signs and symptoms, nutritional anthropometry, biochemical tests, biophysical tests, diet survey methods. Major nutritional problems prevalent in India and state. Protein energy malnutrition, anaemia, vitamin A deficiency, iodine deficiency disorders, National programmes and role of national and international agencies. In improving nutritional status of the community. Integrated Child Development Service (ICDS), supplementary Nutrition Program (SNP), Vitamin A Prophylaxis Program, Anaemia Prophylaxis Programme. Food and Agricultural Organization (FAO), World Health Organization (WHO), United Nations Children's Fund (UNICEF), Other Voluntary and Government Agencies. Nutrition education- Objectives, principles and methods, principles.

Practical

Assessment of nutritional status of an individual/community using anthropometry and dietary survey. A) Preparation of schedule B) Survey work C) Analysis of data D) Writing of report. Visit to local health centre to identify clinical signs and symptoms of nutritional problems. Visit to an ICDS Block. Development of audio visual aids- radio script; popular article; chart/posters leaflets etc. Planning, implementation and evaluation of nutrition education for a target group.

Lecture No.	Topics	Weightage
		(%)
1	Assessment of nutritional status.	2.5
2 & 3	Clinical signs and symptoms.	3.75
4 & 5	Nutritional anthropometry.	5
6	Biochemical tests and biophysical tests.	5
7,8&9	Diet survey methods.	5
10 & 11	Major nutritional problems prevalent in India and State. Protein energy malnutrition.	5
12&13	Anaemia.	5
14	Vitamin A deficiency.	5
15	Iodine deficiency disorders.	5
16 & 17	National programmes and role of national and international agencies. In improving nutritional status of the community.	7.5
18	Integrated Child Development Service (ICDS)	2.5
19 & 20	Supplementary Nutrition Program (SNP)	5
21 & 22	Vitamin A Prophylaxis Program	7.5
23 & 24	Anaemia Prophylaxis Programme	7.5
25	Food and Agricultural Organization (FAO	3.75
26	World Health Organization (WHO),	3.75
27	United Nations Children's Fund (UNICEF	3.75
28 to 30	Other Voluntary and Government Agencies	10
31 & 32	Nutrition education- Objectives, principles and methods.	7.5
	Total	100

Exercise No.	Title	
1	Assessment of nutritional status of an individual/community using	
	anthropometry and dietary survey.	
2	Preparation of schedule.	
3	Survey work .	
4	Technique of anthropometric measurements.	
5	Clinical Signs and symptoms of deficiency diseases.	
6	Methods of diet survey.	
7	Compilation of data.	
8	Analysis of data and report writing.	
9	Visit to local health centre to identify clinical signs and symptoms of	
	Nutritional problems.	
10	Visit to an ICDS Block.	
11	Report writing.	
12	Development of audio visual aids- radio script.	
13	Development of audio visual aids and popular article.	
14	Development of audio visual aids chart/posters.	
15	Development of audio visual aids- leaflets etc.	
16	Planning, implementation and evaluation of nutrition education for a target	
	group.	

Suggested Readings

1.Text Books

- 1. Sehgal, S. and Raghuvanshi, R.S. (2007) Text Book of Community Nutrition. ICAR, New Delhi.
- 2. Jelliff D B. (1966). The assessment of the nutritional status of the community .WHO Monograph No. 53, World Health Organization, Geneva.
- 3. Lohman TG, Roche AF, Martorell R (1998) Anthropometric Standardization Reference Manual, Human Kinetics Books. Champagne, Illinois.

2.Reference Books

- 1. Buk M C, pao E M. (1976). Methodology For Large Scale Surveys of Households. Home Economics Research Report No.40, US Departments of Agriculture, Washington D.C.
- 2. Timmayamma and Rao P. Dietary Assessment As Part of Nutritional Status- Textbook of Human Nutrition. Oxford & IBH publishing Co. pvt. Ltd., New Delhi.
- 3. Swaminathen M. (1990) Essentials of Food and Nutrition. Bangalore Printing and Publishing Co. Ltd, Bangalore

3.e-Books

1. Therapeutic Nutrition A practical guide

Authors: Dr C. R. Pennington

ISBN: 978-0-412-29230-9 (Print) 978-1-4899-7108-1 (Online)

2. Normal and Therapeutic Nutrition

Corinne Hogden Robinson

https://books.google.co.in/books/about/Normal_and_Therapeutic_Nutrition.html?id=LuxsAAAAMAAJ&redir_esc=y

Student READY Programme 40(0+40)

Course No. SRP 471 Title Implant Training

Credits 10 (0+10) Semester VII

Course No. SRP 472 Title Rural Awareness Work Experience

Credits 10 (0+10) Semester VII

Course No. SRP481 Title Experiential Learning

Credits 20(0+20) Semester VIII

DEPARTMENT OF TEXTILES AND APPAREL DESIGNING

Course No. TAD 111 Title Fundamentals of Clothing Construction
Credits 3(1+2) Semester I

Theory

Terminology related to clothing construction. Sewing tools and equipment required for measuring, drafting, cutting and stitching. Sewing machine its parts and functions. Solving common machine problems. Selection and preparation of fabric for garment construction Layout of paper pattern, marking, cutting and stay stitching Unit construction method Importance and function of clothes Socio- economic and psychological factors affecting clothing choices Consumer behavior and motivation Clothing requirements of different age groups: infant, toddler, pre-school, school age children, teenager, adolescent, adult and senior citizen Application of elements and principles of art in apparel designing.

Practical

Demonstration on: Sewing equipment and tools, sewing machine and its care. Preparation of samples: Hand stitches; basting, slip-stitching, hemming, smocking, over casting, attaching fastener and button holing, mending and patching Machine stitches; seam and seam finishes, pleats, gathers and tucks, stay stitch, under stitching, placket opening Demonstration on taking body measurements Preparation of fabric for cutting, and layout of paper pattern on different fabrics patterns including plain, print, lines, plaid and check. Drafting, cutting and stitching of different garments: Baby frock, Panty, Bloomer, Blouse

Lecture	Topics	Weightage
No.	Topies	(%)
1 &2	Terminology related to clothing construction	10
3	Sewing tools and equipments required for measuring, drafting, cutting and stitching	10
4	Sewing machine its parts and functions	10
5	Solving common machine problems	10
6	Selection and preparation of fabric for garment construction	10
7	Layout of paper pattern, marking, cutting and stay stitching. Unit construction.	10
8	Importance and functions of clothes	10
9 & 10	Socio-economic and psychological factors affecting clothing choices	10
11 & 14	Consumer behaviour and motivation. Clothing requirements of different age groups: infant, toddler, pre-school, school-age children, teenager, adolescent, adult and senior citizen	10
15 &16	Application of elements and principles of art in apparel designing	10
16	Total	100

Exercise no.	Title
1.	Demonstration on: Sewing equipments and tools
2.	Demonstration on sewing machine and its care
3.	Practice of operating sewing machine
4.	Practice of operating sewing machine
5.	Preparation of samples: Hand stitches; basting
6.	Preparation of samples: Hand stitches slip-stitching, hemming
7.	Preparation of samples: Hand stitches; smocking
8.	Preparation of samples: Hand stitches; smocking, over casting
9.	Preparation of samples: attaching fastener and button holing
10.	Mending
11.	Patching
12.	Machine stitches; Types of seams
13.	Seam finishes
14.	Different types of Pleats
15.	Different types of Tucks and gathers
16.	Stay stitch, under stitching
17.	Placket opening
18	Demonstration on taking body measurements
19	Preparation of fabric for cutting
20	Layout of paper pattern on different fabrics patterns including plain, print, lines,
	plaid and check.
21	Drafting of Baby frock and cutting of Baby frock
22	Stitching and finishing of Baby frock
23	Drafting of Panty
24	Cutting of Panty
25	Stitching of Panty
26	Drafting of Bloomer
27	Cutting of bloomer
28	Stitching of bloomer
29	Drafting of blouse
30	Cutting of blouse
31	Stitching of blouse
32	Finishing of blouse

1.Text books

- 1. Kefgen, M. and Phyllis, T.S. 1971. Individuality in Clothing Selection and Personal Appearance. New York. The Macmillan Company
- 2. Tate, M.T. and Glisson, O. 1961. Family Clothing. New York. John Wiley and Sons.
- 3. Sannapapamma, K.J. and Jahan, S. TXAD111-Fundamentals of Clothing Construction. ecourse.iasri.res.in.

2.Reference Books

- 1. Doongaji, S. and Deshpande, R. Basic Processes and Clothing Construction. 2nded. New Delhi. New Raj Book Depot.
- 2. Erwin, M.D. et.al. 1979. Clothing for Moderns. 6thed. New York. Macmillan Publishing
- 3. Lewis, V.S. 1979. Comparative Clothing Construction Techniques. Minnesota. Burgess Publishing Company.
- 4. Mansfield, E.A. and Lucas, E.L. 1974. Clothing Construction. 2nd ed. London. Houghton Mifflin Company.
- 5. Sodhia, M. 2004. Advanced drafting and draping. New Delhi. Kalyani Publisher.
- 6. Rosencranz, M.I. 1972. Clothing Concepts- A Social and Psychological Approach. New York. The Macmillan Company Ltd.

3.e-Books

- 1. www.crafsy.com
- 2.www. chest of books.com

Course No. TAD 122 Credits 3(2+1)

Title Textile Science and Fabric Care Semester II

Theory

Textile: definition, forms of textile, importance of textile industry in national economy Classification of textile fibres Properties of textile fibres; primary and secondary properties Molecular structure of textile fibres: Monomers, polymers and their types, polymerization and its types, degree of polymerization and orientation Cotton: Fibre production, fibre varieties and their grading, fibre morphology, physical, chemical and biological properties and end-uses Bastfibres: Flax, jute, hemp and ramie; Fibre production, fibre morphology, physical, chemical and biological properties and enduses Other bastfibres (ramie, jute, hemp): Fibre production, fibre morphology and physical, chemical and biological properties and end-uses Wool: Fibre production, classification of wool and their labeling, fibre morphology, physical, chemical and biological properties and end-uses Silk: Fibre production and classification, fibre morphology, physical, chemical and biological properties and end-uses Chemical spinning: Wet, melt and dry spinning and common properties of man-made fibresRayons: Viscose, cupramonium and High Wet Modulus rayons; fibre manufacturing, microscopic structure, physical, chemical and biological properties and end-uses Modified cellulosic fibres: Diacetate and triacetate; fibre manufacturing, fibre microscopic structure, physical, chemical and biological properties and end-uses Synthetic fibres: Nylon, polyester and acrylic; fibre manufacturing, fibre microscopic structure, physical, chemical and biological properties and end-uses Mechanical spinning: Ring spinning method Classification of yarn on the basis of structure- simple and novelty yarns, twist direction, twist amount, fibre length and end-uses Methods of fabric construction: Weaving, knitting, braiding, tufting, net, lace making, crocheting, macramé, stitch through fabrics, quilted fabrics, laminated fabrics, bonded fabrics, felt, nonwoven and films Stain removal: Classification of stains and methods of removing different stains Laundry: Definition, principles, equipments, laundry methods and dry cleaning Laundry agents: Water, soap, laundry auxiliary, stiffening agents, bleaches and blues Care of textiles: Labeling and labeling Act Labels and tags used in textiles Storage of clothes: Requirements of short term and long term storage, folding and packaging of clothes

Practical

Testing of textile fibres Microscopic view Burning test Solubility test Visual test Study and identification of different types of yarns in the market Study and identification of fabric samples of different construction in the market and thread count Removal of different stains from fabric surface Washing and finishing of garments made of following fibres: Cotton, Wool, Silk, Blends/ synthetic Visit to textile industry.

Lecture	Topics	Weightage
No.		(%)
1	Textile: definition, forms of textile, importance of textile industry in	2.5
	national economy	
2	Classification of textile fibres	5
3 and 4	Properties of textile fibres; primary and secondary properties	5

	Total	100
	folding and packaging of clothes	
32	Storage of clothes: Requirements of short term and long term storage,	5
31	Care of textiles: Labeling and labeling Act Labels and tags used in textiles	2.5
29 and 30	Stiffening agents, bleaches and blues	7.5
27 and 28	Laundry agents: Water, soap, laundry auxiliary,	5
26	Laundry: Definition, principles, equipments, laundry methods and dry cleaning	5
24 and 25	Stain removal: Classification of stains and methods of removing different stains	5
23	Methods of fabric construction: Weaving, knitting, braiding, tufting, net, lace making, crocheting, macramé, stitch through fabrics, quilted fabrics, laminated fabrics, bonded fabrics, felt, nonwoven and films	5
21 and 22	Classification of yarn on the basis of structure- simple and novelty yarns, twist direction, twist amount, fibre length and end-uses	5
18,19 and 20	Synthetic fibres: Nylon, polyester and acrylic; fibre manufacturing, fibre microscopic structure, physical, chemical and biological properties and enduses	7.5
17	Modified cellulosic fibres: Diacetate and triacetate; fibre manufacturing, fibre microscopic structure, physical, chemical and biological properties and end-uses	5
15 and 16	Rayons: Viscose, cupramonium and High Wet Modulus rayons; fibre manufacturing, microscopic structure, physical, chemical and biological properties and end-uses	5
14	Chemical spinning: Wet, melt and dry spinning and common properties of man-made fibres	2.5
12 and 13	Silk: Fibre production and classification, fibre morphology, physical, chemical and biological properties and end-uses	5
10 and 11	Wool: Fibre production, classification of wool and their labeling, fibre morphology, physical, chemical and biological properties and end-uses	7.5
9	Other bastfibres (ramie, jute, hemp): Fibre production, fibre morphology and physical, chemical and biological properties and end-uses	5
7 and 8	Bast fibres: Flax, jute, hemp and ramie; Fibre production, fibre morphology, physical, chemical and biological properties and end-uses	2.5
5 and 6	Cotton: Fibre production, fibre varieties and their grading ,fibre morphology, physical, chemical and biological properties and end-uses	7.5

Exercise No.	Title
1	Testing of textile fibres by Microscopic view
2	Testing of textile fibres by Burning test
3	Testing of textile fibres by Solubility test and Visual test

4	Identification of different types of yarns in the market
5	Samples collection of different types of yarns from market
6	Identification of fabric samples of different construction in the market
7	Samples collection of different types of fabrics from market
8	Study of thread count
9	Removal of different vegetable stains from fabric surface
10	Removal of different other stains from fabric surface
11	Washing and finishing of garments made of Cotton
12	Washing and finishing of garments made of Wool
13	Washing and finishing of garments made of Silk, Blends/ synthetic
14	Washing and finishing of garments made of Blends/ synthetic
15	Visit to textile mill or weaving center
16	Report writing

1.Text Books

- 1. Dantyagi, S. 1959. Fundamentals of textiles and their Care. New Delhi. Orient Longman Limited.
- 2. Deulkar, D. and Tarabai.1967. Household textiles and laundry Work. 3rd ed. Delhi.Atma Ram and Sons Ltd.
- 3. Joseph, M. L. 1986. Introductory textile science. 5th ed. New York. CBS College Publishing.

2. Reference Books

- 1. Labarthe, J. 1969. Textiles: Origins to Usage. New York. McMillan Company Ltd
- 2. Potter, M.D. and Corbman, B.P. 1967. Textiles: Fibre to fabric. New York. Macmillan Hill Co.
- 3. Stout, E.E. 1970. Introduction to textiles. 3rd ed. New York. John Wiley and Sons, Inc.
- 4. Tortora, P.G. 1978. Understanding textiles. New York. Macmillan Publishing Company.
- 5. Vilensky, L. D. and Gohl, E. P.G. Textile Science. Delhi. CBS Publishers and Distributors.
- 6. Wingate, I. B. 1970. Textile Fabrics and their selection.6thed. New Jersey. Prentice Hall Inc.
- 7. Wynne, A. 1997. Textiles.London, Macmillan Education Ltd. 310 p.
- 8. Vatsala, R. 2003. Textbook of Textiles and Clothing. New Delhi. Indian Council of Agriculture Research.
- 9. Cowan, M. L. and Jungerman, M. E. 1969. Introduction to textiles. 6th ed. New York. Appleton-Century Crofts.325 p.
- 10. Hall, A.J. 1969. A Students Textbook of Textile Science. London. Allman and Son Ltd
- 11. Hollen, N. and Saddler, J. 1968. Textiles. New York. Macmillan Company.

3.e-Books

- 1.ebook.in/book/textile-science
- 2.www.teonline.com/books.html

Course No. TAD 233 Title Garment and Accessory Designing
Credits 3(0+3) Semester III

Practical

Selection of figure template for men, women and children Designing of garments for women using different construction features: collar, sleeve, neckline men using different construction features: shoulder yoke, collar, sleeve, cuff children using different construction features: Yoke, gather, pleats, tucks, shirring, smocking, trimmings Drafting and construction of following garments for women, men and children fancy frock salwar/pyjama/pyjami kurta (gents)/kameez (ladies) night dress/ gown Accessories: introduction and classification; footwear, hand bags, belt, jewelry, gloves, hats, scarves and umbrella Designing of accessories for women, men and children Selection of designs for construction of accessories Construction of one accessory each for women, men and children.

Practical Exercises

Exercise	Exercises Title
No.	
1	Selection of figure template for men,
2	Selection of figure template for women
3	Selection of figure template for girls
4	Selection of figure template for boys
6	Designing of garments for women using different construction features: Stitching of small sample of Collar:-, round collar, flat collar, stand collar, shawl collar,
7	Stitching of small sample of Sleeves:- short sleeve, mega sleeve and puff sleeve,
8	Bell sleeve, leg mutton sleeve and full narrow sleeve
9	Designing of garments for women using different construction features: Stitching of small sample of Neckline:-such as round shape, square shape, V, shape and U shape neckline
10	Pot shape, star shape, leaf shape glass shape
11	Designing of garments for men using different construction features:
	Stitching of small sample of Shoulder:- Back shoulder of men shirt of double layer fabric ,that support to collar stand in the shape , racket angular shape , V shape in canter, left and right V shape , of angular shape
12	Stitching of small sample of Yoke:- Types of yoke as front yoke up to armhole, back shoulder yoke, left side yoke or right side extra and opposite colour attached to the garment for the decoration collar,
13	Stitching of small sample of Sleeve such as tailored sleeve, full sleeve till wrist suit sleeve and Sherwani sleeve and bias sleeve
14	Stitching of small sample of Cuff:- wrist cuff of different width, narrow cuff
15	Designing of garments for children using different construction features:
	Stitching of small sample of Yoke,:- front yoke of chest to frock, down yoke to frock,

	yoke to skirt, yoke to sleeve,
16	Stitching of small sample of Gathers:- gathers with hand basting, gathers with machine long stitch, gathers with machine zigzag long stitch and gathers with drawn thread of fabric
17	Stitching of small sample of Pleats:-, simple pleats , edge stitch side pleats , box pleats, inverted box pleats and accordion pleats
18	Stitching of small sample of Tucks:- Vertical tucks , horizontal tucks, square tucks , and round tucks
19	Making small sample of Smocking;- honey comb, cable and lattice mocking of petal shape, flower shape brick shape
20	Making small sample of Shirring & trimmings :- self trimming by drawn thread work, extra attachment by preparing by hand and different types of finishing process and developing designs in trimming
21	Drafting and construction of following garments for Women's Salwar:-Method of taking measurement of salwar and calculation of measurement
22	Drafting and Paper drafting of salwar
23	Folding of fabric and transfer of paper draft on fabric fold and cutting salwar
24	Stitching of salwar and finishing of salwar
25	Kameez, (ladies) :- Method of taking measurement of kameez and calculation of measurement
26	Drafting and Paper drafting of kameez
27	Folding of fabric and transfer of paper draft on fabric fold and cutting kameez
28	Stitching of salwar and finishing of kameez
29	Night gown:- Method of taking measurement of night and calculation of measurement
30	Drafting and Paper drafting of night gown
31	Folding of fabric and transfer of paper draft on fabric fold and cutting night gown
33	Stitching of night and finishing of night gown
32	Drafting and construction of following garments for Men
	Pyjama:-Method of taking measurement of pyjama and calculation of measurement
33	Drafting and Paper drafting of pyjama
34	Folding of fabric and transfer of paper draft on fabric fold and cutting pyjama
35	Stitching of pyjama and finishing of pyjama
36	Men Kameez(gents) :- Method of taking measurement of gents kameez and calculation of measurement
37	Drafting and Paper drafting of gents kameez
38	Folding of fabric and transfer of paper draft on fabric fold and cutting of gents kameez

39	Stitching of gents kameez and finishing of kameez
40	Children fancy frock
	Method of taking measurement of frock
41	Drafting and paper drafting of frock
42	Folding of fabric and transfer of paper draft on fabric fold and cutting of frock
43	Stitching of frock and finishing of frock
44	Accessories for women,
	Designing & making sample of jewelry and scarves umbrella, hand bags
45	Designing & making sample of umbrella,
46	Designing & making sample of hand bags
47	Accessories for Men
	Designing & making sample of belt, and hats
48	Accessories for children
	Designing & making sample of footwear

1.Text books

- 1. Doris May Beck 1972, 'Custom Tailoring for Homemakers, published by Chas. A.Bennet Co ,Peoria ,Illinois United State of America
- 2. Bray, N. 1986. Dress Pattern Designing. The Basic Principles of Cut and Fit. 5th ed. USA. Blackwell Science Inc.
- 3. Complete Guide to Sewing 1976 Reader Digest published United State of America (Canada)

2.Reference Books

- 1. Goldstein, H. and Goldstein, V. 1954. Art in Everyday life. 4^{th} ed. New York. Macmillan Publishing Co., Inc. pp -515.
- 2. Bhatnagar, P. 2005. Decorative Design History in Indian Textiles and Costumes. Chandigarh. India. Abhishek Publications. 41-43 pp.
- 3. Graves, M. 1951. Art of Colour and design. 2nded. New York. McGraw-Hill Company. pp 438.
- 4. Beitler, E. J. and Lockhart, B. 1961. Design for you. 2nded.
- 5. Peacock, J. 2000. Fashion accessories- The complete 20th century source book. London. Thames and Hudson.
- 6. Meadows, C. S. 2003. Know your fashion accessories. New York. Fairchild books

3.e-Books

- $1. \underline{www.victoriana.com/ebook/victorianclothingcatelog.html}$
- 2.yiwwg.info/fashion-apparel-accessores.pdf

Course No. TAD 244
Credits 3(1+2)

Title Techniques of Fabric Construction Semester IV

Theory

History of weaving and looms Woven fabrics; simple woven structures and compound woven structures and characteristics of woven fabric Classification of looms on basis of mechanics, means of running loom, structure and means of weft insertion Parts of loom and loom accessories and their function Mechanism of weaving: primary, secondary and tertiary motions Basic weaves: Plain, twill and satin and their variations Complex weaves: extra yarn fabrics, pile fabrics, leno, damask and jacquard Knitting: Terminology and principle of knitting Knitting machine: Parts and their function and types of knitting machine Knitting stitches:plain, rib and purl and types of knit fabrics Macrame and crochet: Tools and materials. Manufacturing process of felt, properties and end uses

Practical

Observation of fabric structures under magnifying glass Graphical representation of woven design Handloom and its parts Weaving calculations and yarn preparation for plain weave Setting of loom and weaving of plain weave fabric Knitting machine and its parts Sample preparation of different fabric constructions hand knitting; plain, rib, purl knots of macramé stitches of crochet manual felting

Lecture No.	Topics	Weightage (%)
1	History of weaving and looms	7.5
2	Woven fabrics; simple woven structures and compound woven structures and characteristics of woven fabric	5
3 and 4	Classification of looms on basis of mechanics, means of running loom, structure and means of weft insertion	5
	Parts of loom and loom accessories and their function	5
5	Mechanism of weaving: primary, secondary and tertiary motions	5
6,7 and 8	Basic weaves: Plain, twill and satin and their variations	12.5
9	Complex weaves: extra yarn fabrics, pile fabrics, leno, damask and jacquard	12.5
10 and 11	knitting: Terminology and principle of knitting.	5
	Knitting machine: Parts and their function and types of knitting machine	5
	Knitting stitches :plain, rib and purl and types of knit fabrics	5
12,13 and 14	Macrame and crochet: Tools and materials. Manufacturing process of felt, properties and end uses Macrame :Tools and materials. Manufacturing process	7.5
15	Crochet: Tools and materials. Manufacturing process	12.5
16	Felts:- Manufacturing process of felt, properties and end uses	12.5
	Total	100

Exercise No.	Title
1.	Observation of fabric structures under magnifying glass
2.	Graphical representation of woven design of basic weaves
3.	Graphical representation of woven design of complex weaves
4.	Study of Handloom
5.	Study of parts of Handloom
6.	Weaving calculations
7.	Yarn preparation for plain weave
8.	Setting of loom for plain weaving
9.	Weaving of plain weave fabric
10.	Practice of weaving plain weave fabric
11.	Practice of weaving plain weave fabric
12.	Study of Knitting machine
13.	Study of parts of Knitting machine
14.	Sample preparation of different fabric constructions of hand knitting;
15.	Sample preparation of plain knit
16.	Sample preparation of rib knit
17.	Sample preparation of purl knit
18.	Sample preparation of knot knit
19.	Macramé stitches and product making
20.	Practice of different macramé stitches
21.	Product making using macramé stitches
22.	Product making using Macramé stitches
23.	Product making using macramé stitches
24.	Crochet stitching and product making
25.	Practice of different crotchet stitches
26.	Practice of different crotchet stitches
27.	Product making using macramé stitches
28.	Product making using macramé stitches
29.	Product making using macramé stitches
30.	Manual felting (preparation of felt fabric by hand)
31.	Practice of Manual felting
32.	Product making using felt

Suggested Readings

1.Text Books

- 1. Dorothy S. Lyle and Jeanne Brinkley(1983) Contemporary Clothing, United States of America
- **2.** Doris May Beck 1972, 'Custom Tailoring for Homemakers, published by Chas. A .Bennet Co ,Peoria ,Illinois United State of America
- 3. Alexander 1980 'Textile Products Selection and care , New York. Macmillan Hill Co otter, M.D. and Corbman, B.P. 1967. Textiles: Fibre to fabric. New York. Macmillan Hill
- 4.Hamlyn House'1972' Golden Hands' The Complete Knitting, dress making and Needle craft guide published by Marshall Cavendish Publication Ltd Singapore

2.Reference Books

- 1. Complete Guide to Sewing 1976 Reader Digest published United State of America (Canada)
- 2.Manmeet Sodhia, 2004 'Advance Drafting and Draping 'Kalyani Publishers Ludhiana New Delhi
- 3. Rathbone and Trapley. 1946, Fabric and Dress' Cambridge. Massachusetts ,U.S.A
- 4.Mary Lynch 1946 Sewing Made Easy Garden city books Garden city ,New YorkUnite State of America
- 5. Evely A.Mansfield and Ethel L.Lucas .1960, Clothing Construction' Fairchild Publications. Houghton Mifflin Company USA

3.e-Books

- 1.www.sewdaily.com/free ebook
- 2.allfreesewing.com/index.php/free-sewing-ebook

Course No. TAD 355 Credits 2(1+1) Title Textile Finishes Semester V

Theory

Textile finishing: Definition and its importance Classification of textile finishes: Chemical, mechanical, temporary, permanent, durable, renewable, semi permanent, reactive and additive finishes Processes of removing impurities from fabrics: Scouring, desizing, degumming, carbonizing, souring Basic finishes that alter hand or texture: Fulling/milling, felting, singeing, stiffening, decatizing Surface finishes: Bleaching, delustering, calendering, beetling, napping, flocking, burnt out design, acid design, plisse design, tentering, shearing and brushing Functional finishes: Water proof and water repellent finish, shrinkage control, wrinkle resistance, anti-static finish, anti-microbial finish, durable press and flame retardant finish Dyes and pigments, classification of dyes Application of dyes: direct, acid, basic, vat, azoic, mordant, sulphur, reactive and disperse dyes Dyeing techniques and equipment: Solution dyeing, fibre dyeing; tow and stock dyeing, yarn dyeing; skein and package dyeing and piece dyeing Styles of printing: Direct, discharge and resist printing Printing methods and equipment: Block, screen, stencil, roller, heat transfer printing, tie and dye and batik

Practical

Finishing of cotton fabric Scouring Bleaching Mercerization Tying and dyeing of cotton fabric with direct dye Fabric designing by batik technique with napthol dye Printing of cotton fabric using different methods Block Stencil Screen Heat transfer

Lecture	Topics	Weightage
No.		(%)
1 and 2	Textile finishing: Definition and its importance Classification of textile finishes: Chemical, mechanical, temporary, permanent, durable, renewable, semi permanent, reactive and additive finishes	10
3and 4	Processes of removing impurities from fabrics: Scouring, desizing, degumming, carbonizing, souring	10
5 and 6	Basic finishes that alter hand or texture: Fulling/milling, felting, singeing, stiffening, decatizing	10
7 and 8	Surface finishes: Bleaching, delustering, calendering, beetling, napping, flocking, burnt out design, acid design, plisse design, tentering, shearing and brushing	10
9 and 10	Functional finishes: Water proof and water repellent finish, shrinkage control, wrinkle resistance, anti-static finish, anti-microbial finish, durable press and flame retardant finish	10
11 and 12	Dyes and pigments, classification of dyes Application of dyes: direct, acid, basic, vat, azoic, mordant, sulphur, reactive and disperse dyes	15

13	Dyeing techniques and equipment: Solution dyeing, fibre dyeing; tow and	15
	stock dyeing, yarn dyeing; skein and package dyeing and piece dyeing	
14	Styles of printing: Direct, discharge and resist printing	5
15 and 16	Printing methods and equipment: Block, screen, stencil, roller, heat transfer printing, tie and dye and batik	15
	Total	100

Exercise No.	Title
1	Souring of cotton fabric
2	Bleaching
3	Mercerization
4	Preparation and outlining of fabric for tie-dye
5	Tieing of cotton fabric for tie-dye
6	Dyeing of tied fabric
7	Preparation of fabric and designing for Batik
8	Waxing of fabric for Batik
9	Fabric dyeing with napthol dye
10	Dewaxing of waxed fabric
11	Preparation of fabric for Block printing
12	Printing of cotton fabric with block printing
13	Preparation of Stencil
14	Printing of cotton fabric using Stencil
15	Printing of cotton fabric using Screen
16	Printing of cotton fabric using Heat transfer printing

Suggested Readings

1.Text Books

- 1. Hollen, N. and Saddler, J. 1968. Textiles. New York. Macmillan Company.
- 2. Joseph, M. L. 1986. Introductory textile science. 5th ed. New York. CBS College Publishing.
- 3. Labarthe, J. 1969. Textiles: Origins to Usage. New York. McMillan Company Ltd.

- 4. Potter, M.D. and Corbman, B.P. 1967. Textiles: Fibre to fabric. New York. Macmillan Hill.
- 5. Stout, E.E. 1970. Introduction to textiles. 3rd ed. New York. John Wiley and Sons, Inc.

2. Reference Books

- 1. Tortora, P.G. 1978. Understanding textiles. New York. Macmillan Publishing Company.
- 2. Vilensky, L. D. and Gohl, E. P.G. Textile Science. Delhi. CBS Publishers and Distributors.
- 3. Wingate, I. B. 1970. Textile Fabrics and their selection. 6th ed. New Jersey. Prentice Hall Inc.
- 4. Wynne, A. 1997. Textiles. London. Macmillan Education Ltd. 310 p.
- 5. Koushik, C.V and Josico, A.I. 2003. Chemical processing of textiles: Preparatory processes an dyeing.NCUTE. New Delhi.
- 6. Shenai, V.A. (2000) Chemistry of dyes and principles of dyeing. Mumbai Sevak Publications.

3.e-Books

- 1.e- book 'Dressings and finishings of textiles', by Polleyn, Friedrich, Salter and Charles
- 2.www.abebook.com/search-title/textile finishing
- 3.www.ebooknetworking.net/ebooks/textile-dyeing-and-finishing.html

Course No. TAD 366 Title Retailing and Merchandising –Textiles and Apparel
Credits 2(2+0) Semester VI

Theory

Retailing and merchandizing- Terminology, concept and principles. Factors affecting merchandizing. Evolution of retail and retail formats.Retailing classification-Factors affecting merchandizing Role and responsibilities of merchandiser.Sale promotions and promotion mix.Adevertising,types,Visual merchandizing.Display-types,elements of display,principles of display.Major Chain stores in India. Steps in marketing research ,role of marketing research in product planning. Sale promotion and promotion mix: advertising, visual merchandising, public relations,sale promotion technique, personal selling and publicity. Pricing methods and pricing of textile Export and Import: Channels of distribution, starting of export and import business and its procedure Organizations involved in export promotion in India WTO and its impact on retailing and merchandizing in textile and apparel industry.

Lecture. No	Topics	Weightage (%)
1 and 2	Retailing and merchandizing- Terminology used	3
2, 3 and 4	Concepts and principles of retailing and merchandizing	3
5 and 6	Factors affecting merchandizing	3.75
7 and 8	Role and responsibilities of merchandiser.	5
9 and 10	Evolution of retail and retail formats	8.5
11 and 12	Retailing classification	4
13 and14	Sale promotions	5.75
15and 16	Promotion mix.	3
17 and 18	Advertising and its types	6.5
19	Visual merchandizing	3
20	Public relations	3
21 and 22	Display-types, elements of display, principles of display. Display Sale promotions and promotion mix.	8.75
23 and 24	Marketing research types, major chain stores	4
25 and 26	Steps in marketing research Role of marketing research in product planning	4.5
27 and 28	Sale promotion techniques and promotion	8

29	Pricing methods and pricing of textile Export and Import	6.5
30	Channels of distribution	6
31	Organizations involved in export promotion in India WTO and its impact on retailing and merchandizing in textile and apparel industry.	4.5
32	Starting of export and import business and its procedure	3
	Total	100

1.Text Books

- 1. Pradhan, S. 2009. Retailing management. 3rded. New Delhi. Tata McGraw-Hill Publishing Company Ltd.
- 2. Cooklin, G. 1991. Introduction to clothing manufacture. London. Blackwell Science Ltd.

2.Reference Books

- 1. Cooklin, G. 1991. Introduction to clothing manufacture. London. Blackwell Science Ltd.
- 2. Easey, M. 1995. Fashion marketing. Oxford (U.K.) Wiley-Blackwell.
- 3. Kotler, P. and Keller, K.L. 2006. Marketing management. 12th ed. New Delhi. Prentice Hall of India Pvt. Ltd.
- 4. Nickles, W.G. 1982. Marketing principles. II ed. New Jersey. Prenctice Hall Inc. Eaglewood Cliffs.
- 5. Phillips, C.F and Duncan, D.J. 1956. Marketing principles and methods. II ed.U.S.A. Richard D. Irwin Inc.
- 6. Pradhan, S. 2009. Retailing management. 3rded. New Delhi. Tata McGraw-Hill Publishing Company Ltd.
- 7. Ramaswamy, V.S. and Namakumari, S. 2004. Marketing management- Planning, Implementation and Control. 4thed. New Delhi. Mcmillan India Pvt. Ltd.
- 8. Easey, M. 1995. Fashion marketing. Oxford (U.K.) Wiley-Blackwell

3.e-Books

1. www.textilelearner.blogspot.com

Course No. TAD 367 Title Traditional Textiles and Costumes of India
Credits 3(2+1) Semester VI
Theory

Traditional woven textiles of India. History of woven textiles: Dacca muslin, Brocades, Calico Printing Traditional sarees of India Jamdani, Baluchari, Pochampalli, Patola and Ikat, Kanjivaram, Chanderi, Maheshwari, Bomkai, Sambhalpuri, Vichitrapuri, Paithani, Kota Doria, Gadwal, Irkal, Venkatagiri, Narayanpet, Kasavu, Tanchoi and Brocade Sarees. Traditional woven and embroidered shawls of India: Shawls of Kashmir, Himachal Pradesh, Gujarat, North Eastern States and other states. Printed and painted textiles Printed textiles Block printed textiles: Dabuprinting, Bagruprinting, Sanganeriprinting, Bagh printing Tie and dyed textiles of Rajasthan and Gujarat. Painted textiles: Kalamkari, Madhubani, Warli, Patchitra, Phad and Pichhavai. Embroideries of different states of India: Kashida of Kashmir, Chamba Rumal, Chikankari and Zari work of Uttar Pradesh, Phulkari and Bagh of Punjab, Embroideries of Gujarat, Kantha of Bengal, Manipuri Embroidery, Kasuti of Karnataka, Embroidery and Rabari work of Bihar, Pipli work of Orissa Importance of traditional textiles in textile and apparel industry Importance and market scenario of traditional Indian textiles and their impact on modern textiles industry. Geographical Indications obtained for traditional Indian textiles.

Traditional costumes of different States of India:- Kashmir, Rajasthan, Gujarat, Punjab, Himachal Pradesh, Assam, Andhra Pradesh, Maharashtra,

Practical

Documentation of motifs of traditional Indian embroideries. Sample preparation of traditional Indian embroideries Documentation of woven textiles of India. Creative projects in the adaptation of traditional motifs and designs in contemporary textiles through collection of samples, sketches and development of scrap book Visit to museum and art galleries

Lecture	Topics	Weightage
No.		(%)
1,2	Traditional woven textiles of India.	12.5
	History of woven textiles: Dacca muslin, Brocades, Calico Printing	
3,4 and 5	Traditional sarees of India Jamdani, Baluchari, Pochampalli, Patola and	12.5
	Ikat, Kanjivaram, Chanderi, Maheshwari, Bomkai, Sambhalpuri,	
	Vichitrapuri, Paithani, Kota Doria, Gadwal, Irkal, Venkatagiri, Narayanpet,	
	Kasavu, Tanchoi and Brocade Sarees	
6 and 7	Traditional woven and embroidered shawls of India:	10
	Embroidery Shawls of Kashmir, Himachal Pradesh, Gujarat, and Punjab	
8,9 and	Printed and painted textiles, Printed textiles Block printed textiles:	12.5
10	Dabuprinting, Bagruprinting, Sanganeriprinting, Bagh printing Tie and	
	dyed textiles of Rajasthan and Gujarat	
11,12,13	Painted textiles: Kalamkari painting and Madhubani painting, Warli	12.5
and 14	painting and printing, Patchitra painting, Phad painting and Pichhavai	

15,16 and	Traditional Embroideries of different states of India:	5
17	Kashida of Kashmir and Chamba Rumal,	
	Chikankari and Zari work of Uttar Pradesh,	2.5
	Phulkari and Bagh embroidery of Punjab	2.5
18,19 and	Embroideries of Gujarat and Kantha of Bengal	2.5
20	Manipuri Embroidery and Kasuti of Karnataka	2.5
	Rabari embroidery of Bihar and Pipli embroidery of Orissa	2.5
21,22	Importance of traditional textiles in textile and apparel industry Importance and market scenario of traditional Indian textiles and their impact on modern textiles industry	5
23,25	Geographical Indications obtained for traditional Indian textiles	5
26,27,28,	Traditional costumes of different States of India:	12.5
29,30,31	Kashmir, Rajasthan, Gujarat, Punjab, Himachal Pradesh,	
and 32	Assam, Andhra Pradesh, Maharashtra,	
	Total	100

Exercise No.	Title
1	Documentation of motifs of traditional Indian embroideries
	Collection of traditional motif of embroidery that identification of different state of India, Kashmir, Himachal Pradesh ,Gujarat, and Punjab, Lukhnow, Rajasthan, Karnataka
2	Sample preparation of traditional of Kashmir and Himachal
3	Preparation of sample of embroidery of and Punjab, Lukhnow
4	Preparation of sample of embroidery of Gujarat and Rajasthan
5	Preparation of sample of embroidery of Dharwad
6	Documentation of woven textiles of India. Collection of pictures of traditional fabrics Jamdani, Baluchari, Pochampalli, Patola and Ikat
7	Collection of pictures of Kanjivaram, Chanderi, Maheshwari, Bomkai,
8	Collection of pictures of Sambhalpuri, Vichitrapuri, Paithani, Kota Doria,
9	Collection of pictures of Gadwal, Irkal, Venkatagiri, Narayanpet, Kasavu, Tanchoi and Brocade Sarees
10	Creative projects in the adaptation of traditional motifs and designs in contemporary textiles through collection of samples
	Preparation of big sample of dress (Ghagra ,blouse and dupatta of traditional embroidery
11	Selection of traditional motif and tracing of design on ghagra ,blouse and dupatta for hand embroidery
12	Selection of stitch ,thread & needle for hand embroidery on ghagra ,blouse and dupatta

13	Stitching of ghagra ,blouse and dupatta of hand embroidery
	And display
14	Preparation of practical record book of different samples of pictures traditional fabric and traditional motif of embroideries, Samples of hand embroidery of Kashmir, Himachal Pradesh ,Gujarat, and Punjab,
	Lukhnow, Rajasthan, Karnataka
15	Visit to museum and art galleries
16	Report writing

1.Text Books

- 1.Durga Deulkar 1983. Household Textiles and Laundry work ,Published by Atma Ram & Sons Delhi Lucknow
- 2.Manly Banister 1976 Wood Block Cutting & Printing, publishing co. New York
- 3. Jane Simpson ,1977. 'The Colour book of Embroidery' published Mandarin ,Hong Kong
- 4 Hamlyn House'1972' Golden Hands' The Complete Knitting, dress making and needlecraft guide published by Marshall Cavendish Publication Ltd Singapore

2.References Books

- 1. Manmeet Sodhia, 2004 History of Fashion Chapter, 18'Traditional Costume of India and Chapterno 19Traditonal Textiles of India and Indian Embroidery, book published, Kalyani publishers, Ludhiana- NewDelhi-Noida (U.P)2004
- 3. Bhatnagar, P. 2005. Decorative Design History in Indian Textiles and Costumes. Chandigarh, Abhishek Publication.
- 3. Chattopadhyay, K. 1977. Indian Embroidery. New Delhi, Wiley Eastern Limited
- 4. Harney, J. 1997. Traditional Textiles of Central Asia. London. Thomesand Hudson Ltd.
- 5. Krishna, R A. 1966. Banaras Brocades. New Delhi. Crafts museum.
- 6. Lubell, C. 1976. Textile Collection of the World. Vol. 2. London. United States publication.
- 7. Mehta, R J. 1970. Master Piece of Indian Textiles. D. B. Taraporevale Sons and Co. Private Ltd.
- 8. Treasure of Indian Textiles. 1980. Calico Museum. Ahmedabad.Marg Publication Bombay

3.e-Books

- 1.www.academia.edu/traditional-indian-costume-textile
- 2..Abbzt.us/traditional-costume-india.pdf

Student READY Programme 40(0+40)

Course No. SRP 471 Title Implant Training

Credits 10 (0+10) Semester VII

Course No. SRP 472 Title Rural Awareness Work Experience

Credits 10 (0+10) Semester VII

Course No. SRP 481 Title Experiential Learning

Credits 20(0+20) Semester VIII

DEPARTMENT OF COMMUNITY EXTENSION AND COMMUNICATION MANAGEMENT

Course No. CECM111 Title Community Extension and Rural Development
Credits 2 (1+1) Semester I

Theory

Philosophy, principles and objectives of Home Science Extension Education- concept and importance, philosophy, principles and objectives. Evolution of extension education- glimpses of pre- and post-independence era. Community: Meaning and definition, types of communities, Community development programmes- concept, objectives, organization, activities, achievement and failures., concepts-structural and functional, differences between rural, urban and tribal societies. Rural development- concept, need, meaning, aim and functions of extension education for rural development. Panchayati Raj Institutions- concept, structure and function. Current rural development programmes/ Organisations- SGSY, MGNREGA, IAY, ICDS, Total sanitation schemes/ campaigns etc., DWMA, ATMA, ITDA, DRDA, KGMV. Role of ICAR, SAUs, KVKs, DAATTCs and NGOs in rural development.

Practical

Visit to Gram Panchayat, Visit to KVK, Study of SJSY, ICDS,KGMV, ATMA, DRDA MGNREGA, Visit to NGO, Visit to Anganwadi centre.

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1	Extension education concept, need and importance	5
2&3	Philosophy, principles and objectives of extension education	15
4&5	Community: Meaning and definition, types of communities,	5
	community and science	
6	Concepts-structural and functional differences between rural,	10
	urban and tribal societies.	
7&8	Rural development- concept, need, aim and functions of	15
	extension education for rural development	
9&10	Evolution of extension during pre-independence era.	10
11& 12	Community development programme concept, objectives,	15
	organization, activities, achievement and failures	
13& 14	Panchayati Raj Institutions - concept, structure and function	10
15&16	Current rural development programmes/ Organisations-	15
	SGSY, MGNREGA, IAY, ICDS, Total sanitation schemes/	
	campaigns etc., DWMA, ATMA, ITDA, DRDA, KGMV	
	Role of ICAR, SAUs, NGOs & KVKs in rural development	
	Total	100

Practical Exercises

Exercise	Title
No.	
1	Visit to Gram Panchayat
2	Report writing
3	Visit to KVK
4	Report writing
5	Study of SJSY
6	Report writing
7	Visit to NGO
8	Report writing
9	Study of ICDS. KGMV
10	Report writing
11	Visit to Anganwadi centre
12	Report writing
13	Study of ATMA
14	Study of DRDA
15	Study of MGNREGA
16	Report writing

Suggested Readings

1.Text Books

- 1. Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- 2. Reddy, A.A (2001), Extension Education, Baptala: Sri Lakshmi Press.
- 3. Ray, G.L. (2003), Extension Communication and Management. Kalyani Publishers. Fifth revised and enlarged edition.

2. Reference Books

- 1. R.R. Chole, P.R. Deshmukh &P.S. Kapse Transfer of agricultural technology
- 2. Sandhu, A.S (2003), Extension Programme Planning, New Delhi: Oxford IBH

3.e-Books

PDF]Download E-book (PDF) - Academic Journals

www.academicjournals.org/**ebook**/journal1422551367_January%202015%20issue%2...

PDF]Download E-book (PDF) - Academic Journals

www.academicjournals.org/ebook/journal1398932469_January%202014%20Issue.pdf

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https://india.gov.in/download-e-book-ministry-rural-development

Course No. CECM 122 Title Communication, Diffusion and adoption of Homestead Technologies

Credits 3 (1+2) Semester II

Theory

Concept, meaning, elements of communication process, Classification of extension teaching methods. Communication approaches individual, group and mass projected aids three-dimensional aids, feedback, fidelity, barriers in Communication.

Concept and elements of diffusion process. Innovation—decision process, types of innovation—decision, consequences of innovations. adoption: meaning, definition, adoption process, factor affecting adoption and innovation — decision process and constraints. Different terms used in diffusion of innovation and adoption process: Rate of adoption, over adoption, innovativeness, dissonance, rejection, discontinuance. Adopter categories: concept and types. Homestead technology: concept and its relevance to innovation — decision process different channels of communication and their characteristics. Change agents and opinion leader; change proneness — acceptance and resistance to social change. Different homestead technologies with special reference to Home Science.

Practical

Familiarization with accessories for preparing instructional materials. Preparation of Poster, Chart ,folder , flash card etc. projection systems .Collection of homestead technologies. Adoption in localities- Observation, visit to different entrepreneurs with adopted home stead technologies for business enterprise. Visit to different successful SHGs, Categories of adopters among SHG members. Analysis and presentation of report. Identification of change agents in a locality, Presentation of report

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1	Orientation to course	
2&3	Communication concept, importance, elements, process	10
4&5	Communication barriers	10
6	Diffusion concept and elements	10
7	Meaning of related terms innovation, adoption	5
8&9	Innovation-decision process	10
10&11	Rate of adoption and factors affecting adoption	15
	discontinuance, over adoption	
12	Social change, change agents and opinion leaders, change	5
	proneness	
13	Characteristics of innovation with special reference to	10
	homestead technologies	
14	Communication channels for technology transfer	5
15	Adopter's categories,	10
16	Consequences of adoption Constraints in adoption of	10
	technologies	
	Total	100

Practical Exercises

Exercise	Title
No.	
1	Orientation to course practical
2	Familiarization with accessories for preparing instructional materials
3	Chart papers, marker pens, stencils, different colours etc.
4	Preparation of charts
5	Utilization of charts
6	Finalization of theme, rough sketch& caption of posters
7	Preparation of posters
8	Utilization of posters
9	Finalization of theme of flash cards
10	Preparation of flash cards
11	Utilization of flash cards
12	selection topics for transparencies
13	Preparation of transparencies
14	use of transparencies
15	Studying different parts of slide projector
16	Handling of slide projector
17	Studying different parts of overhead projector
18	Handling of overhead projector
19	Studying different parts of LCD projector
20	Studying functions of different parts of LCD projector
21	Handling of LCD projector
22	Structuring of family survey schedule
23	Finalization of survey schedule
24	Conducting family survey
25	Interpretation of data
26	Structuring of village survey schedule
27	Finalization of survey schedule
29	Conducting village survey
30	Interpretation of data
31	Identification of needs and problems of rural women
32	Study of different homestead technologies used by rural women

Suggested Readings

1.Text Books

- 1. Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- 2. Reddy, A.A (2001), Extension Education, Baptala: Sri Lakshmi Press.
- 3. Ray, G.L. (2003), Extension Communication and Management. Kalyani Publishers. Fifth revised and enlarged edition.
- 4. Sandhu, A.S (2003), Extension Programme Planning, New Delhi: Oxford IBH
- 5. Rogers & shoemaker Diffusion of innovations

2. Reference Books

1. Sandhu, A.S (2003), Extension Programme Planning, New Delhi: Oxford IBH

- 2. Indu Grover, Nishi Sethi, Deepak Grover (2004 or new) Handbook of communication and media, Agrotech Publishing Academy, 1-GA 24 Sector 5, Gayatri Nagar, Hiran Magri, Udaipur 313 002.
 - 3. Sanjay Gaur Dimensions of mass media and communication, Book enclave publisher, Jaipur H.O. Jain Bhawan, Opp.NEI, Shanti Nagar, Jaipur 302006

3.e-Books

best communication eBooks | Bookboon Blog

bookboon.com/blog/2014/08/5-best-communication-books/

Effective Communications | Free eBook in PDF, Kindle and ePUB Format

www.free-management-**ebooks**.com/dldebk/dlcm-effective.htm

Ebook: Communication Theory: Free Download & Streaming: Internet

https://archive.org/details/EbookCommunicationTheory

<u>Diffusion of Innovations, 4th Edition eBook by Everett M. Rogers ...</u>

www.simonandschuster.com/books/Diffusion-of-Innovations.../9781451602470

Course No. CECM 233 Title Programme Development for Rural Families Credits 3 (2+1) Semester III

Theory

Planning: nature of planning. Extension programme planning: concept, definition, objectives, principles, relevant terms used in programme planning: situation, aims, objectives, problem, solution, project, plan, plan of work, calendar of work etc. Steps in extension programme planning: elaborate discussion. Critical analysis of few major development programmes under five-year plans. Leader and leadership: meaning, definition, identification of leader execution of programme: Environment and rapport building, role of local leader, involvement of local leaders, involvement of local bodies, organizations and extension agencies. Implementation of programme and constraints associated with it. Monitoring and evaluation: concept, meaning, definition.

Practical

Establishing rapport with rural families and identification of leader. Conducting baseline survey of village and household and analysis of information. Different PRA tools, its applications in programme development and exercises. Triangulation of information from conventional and PRA method. Preparation of detailed plan of work for small need based programme. Implementation of programme Evaluation of programme Documentation Presentation of findings of programme

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1	Orientation to course	
2&3	Programme planning - Concept and importance and need of	10
	programme development ,Concept of five year plans and rural	
	development	
4&5	Objectives of Programme planning	5
6&7	Principles of Programme planning	10
8&9	Steps in programme planning	10
10	Involvement of local people in planning programme	5
11	Leader and Leadership meaning, qualities and roles	5
12&13	Types of leaders	5
14,15&16	Identification and training of leaders	10
17&18	Environment building	4
19& 20	Execution of programme	5
21&22	Involvement of local leaders, local bodies, organizations and extension agencies	2
23&24	Constraints in implementation of programme at grass root level and ways to overcome them.	2
25,26&27	Monitoring and evaluation of Extension programme concept,	2
	importance,	
28,29&30	Training Evaluation-Elements, types and techniques, degrees, value,	15
	six keys	
31 &32	Participatory Rural Appraisal - Concept and techniques.	10
	Total	100

Practical Exercises

Exercise	Title
No.	
1	Orientation to course practical
2	Discussion &understanding different concepts in programme development
3	Developing rapport with rural families
4	Conducting household survey
5	Assessing the needs of rural families
6	Formulation of objectives for programme
7	Conducting village survey
8	Assessing areas for development of programme
9	Prioritizing the issues to be tackled
10	Development of small need based programme
11	Development of instructional material
12	Finalization of role play
13	Implementation of program
14	Feedback & follow up
15	Evaluation of program
16	Writing report and its presentation

Suggested Readings

1.Text Books

- 1. Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- 2. Reddy, A.A (2001), Extension Education, Baptala: Sri Lakshmi Press.
- 3. Ray, G.L. (2003), Extension Communication and Management. Kalyani Publishers. Fifth revised and enlarged edition.
- 4. Sandhu, A.S (2003), Extension Programme Planning, New Delhi: Oxford IBH

2.Reference Books

- 1. R.C.Ramanujan Mass Communication and its Digital Transformation, APH, New Delhi (81-313-0039)
- 2. Aggarwal J.C (2007). Essentials of Educational Technology, Vikas publishing house Pvt. Ltd. A-22, Sector-4, Noida-201301(UP)

3.e-Books

- 1. Download E-Book of Ministry of Rural Development | National Portal of
- 2https://india.gov.in/download-e-book-ministry-rural-development
- 3. Ebook Ministry of Health & Family Welfare
- 4. www.mohfw.gov.in/**ebook**/index.html
- 5. Rural Families and Reshaping Human Services eBook: Jeanne F ...
- 6. https://www.amazon.ca/**Rural-Families**-Reshaping-Human...**ebook**/dp/B01EAHZMIS

Course No. CECM 244 Title Training and Human Resource Development Credits 3 (1+2) Semester IV

Theory

Training: Concept, need, definition, importance. Identification of training need. Types of Training. training process, different phases of training and its management. Qualities of a good trainer-communications skills, training skills, motivational skills and handling difficult situations. Adult learning, characteristics of adult learner. Facilitation skills in training, problem and prospects of training. Designing training module: Basic guidelines, steps in module designing. Training methods. Training evaluation: Objectives, principle, steps and indicators of training evaluation. Important training institutions in India.

Practical

Visit to state level training institutes, report writing and presentation, Visit to vocational training institutes, report writing and presentation, Hands-on-experience with training need analysis. Writing training objectives. Hands-on-experience on training methods, Familiarization with monitoring and evaluation tools of training, Preparation of training module, Designing, conducting and evaluation of training programme, Analysis of HRD programmes of academic and corporate institutions. Interaction with HRD professionals. Presentation of reports.

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1	Training: Concept, need, definition, importance	5
2	Identification of training need	10
3	Types of Training. training process, different phases of training and its management	10
4	Qualities of a good trainer- communications skills, training skills, motivational skills and handling difficult situations	5
5&6	HRD- concept, objectives ,elements, strategies	15
7	Adult learning, characteristics of adult learner.	5
8	Facilitation skills in training, problem and prospects of training.	10
9&10	Designing training module: Basic guidelines, steps in module designing.	10
11 to15	Training methods.	20
16	Training evaluation: Objectives, principle, steps and indicators of training evaluation. Important training institutions in India	10
	Total	100

Practical Exercises

Exercise	Title
No.	
1	Discussion & understanding of different training phases
2	Discussion & understanding of different training components
3	Discussion on different methods of Assessing training needs
4	Assessing training needs
5	Formulation of training objectives

6	Discussion on different
7	Designing training plan
8	Visit to state level training institutes,
9	Report writing and presentation
10	Visit to vocational training institutes,
11	report writing and presentation,
12	Hands-on-experience with training need analysis.
13	Hands-on-experience on training methods-micro lab
14	Hands-on-experience on training methods-brain storming
15	Hands-on-experience on training methods-role play
16	Hands-on-experience on training methods-experiential learnining
17	Hands-on-experience on training methods-panel discussion
18	Hands-on-experience on training methods-case study
19	Hands-on-experience on training methods- interactive video
20	Hands-on-experience on training methods- lecture
21	Familiarization with monitoring and evaluation tools of training,
22	Familiarization with offline and online training module.
23	Preparation of training module
24	conducting of training programme
25	evaluation of training programme
26	Report writing and presentation
27	Analysis of HRD programmes of academicinstitutions.
28	Report writing and presentation
29	Analysis of HRD programmes of corporate institutions
30	Report writing and presentation
31	Interaction with HRD professionals.
32	Presentation of reports.

Suggested Readings

1.Text Books

- 1. Lynton, R.P. and Pareek, V. (2008). Training for Development. Vistaar Publications.
- 2. Saxena, J.P. and Kakkar, A.T. (2000). Training and Development.
- 3. Setty E.D (2003). A Practical Handbook On Training, Anmol Publications Pvt. Ltd. 4374/4B, Ansari Road, Daryaganj, New Delhi 110002 (India)
- 4. Gupta, C.B. (2001). Human Resource Management. Sultan Chand and Sons.

2.Reference Books

- 1. Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- 2. Narwani, G.S. (2002). Training for Rural Development. Rawat Publication.
- 3. Kalla P.N, Purohit A.K, Sharma S.K, Mrs. Chitra Henry, Vipin Laddha & Hanuman Ram (2008). New Dimensions of Extension Training and Management, Mrs. Geeta Somai, Agrotech Publishing Academy 11-A, Vinayak Complex B Durga Nursery Road Udaipur- 313001, Rajasthan (India)

3.e-Books

<u>Human Resource Management books - Bookboon</u>

bookboon.com/en/hrm-ebooks

<u>Human Resource Development: Learning & Training ... - Google Books</u>

https://books.google.co.in > ... > Human Resources & Personnel Management

Human Resource Development eBook: R Krishnaveni: Amazon.in ...

https://www.amazon.in/**Human-Resource-Development-**R...**ebook**/dp/B008450OXG

Foundations of Human Resource Development eBook: Richard A ...

https://www.amazon.in/Foundations-Resource-Development...ebook/dp/B00200LJU8

Amazon.com: Human Resource Development eBook: Jon M. Werner ...

https://www.amazon.com/**Human-Resource-Development-**Jon...**ebook**/.../B00B9EOX...

Human Resource Management - Free E-Books - E-Books Directory

www.e-booksdirectory.com > Business & Investing

Training and Development - Bookboon

bookboon.com/en/training-and-development-ebook

Human Resource Development eBook: R Krishnaveni: Amazon.co.uk ...

https://www.amazon.co.uk/**Human-Resource-Development-**R...**ebook**/.../B008450OX...

Theory

Project management: Overview. Project - meaning, concept, types, elements of management. Project proposal- concept, designing, project initiation, resource allocation framework. Market and demand analysis. Environmental appraisal of projects, Environmental impact analysis, Technical analysis, Financial analysis. Budgeting Terminology of networks. Project management techniques.

Practical

Collection and screening of case studies on project management and report writing, Visit to project - Technology generation project. Visit to Project - Transfer of Technology (ToT). Visit to Project-Women entrepreneurship. Visit to state level and international level funding agencies. Visit to International funded projects. Visit to women and child development project. Visit to agriculture development project, Visit to rural development projects. Designing, planning and preparation of a mini project proposal.

Working on project management techniques: PERT. Working on project management: CPM. Working on project management techniques: WBS. Report writing

Teaching Schedule-Theory With Weightages(%)

Lecture	Topics	Weightage
No.		(%)
1	Project management: Overview	10
2&3	Project - meaning, concept, types, elements of management.	15
4,5&6	Project proposal- concept, designing, project initiation, resource	15
	allocation framework.	
7&8	Market and demand analysis	10
9 to10	Environmental appraisal of projects Environmental impact analysis	10
11, &12	Technical analysis, Financial analysis.	10
13&14	Budgeting ,Terminology of networks	10
15&16	Project management techniques. Concept of CPM and PERT.	20
	Total	100

Practical Exercises

Exercise No.	Title
1	Collection of case studies on project management
2	Report writing
3	Screening Of case studies on project management
4	Report writing
5	Visit to project - Technology generation project.
6	Report writing
7	Presentation of report
8	Visit to Project - Transfer of Technology (TOT).

	D
9	Report writing
10	Presentation of report
12	Visit to Project- Women entrepreneurship.
13	Report writing
14	Presentation of report
15	Visit to state level and international level funding agencies.
16	Report writing
17	Visit to women and child development project.
18	Report writing
19	Presentation of report
20	Visit to agriculture development project,
21	Report writing
22	Presentation of report
23	Visit to rural development projects
24	Report writing
25	Presentation of report
26	Designing, planning of a mini project proposal.
27	Preparation of a mini project proposal.
28	Working on project management techniques: PERT.
29	Report writing
30	Working on project management techniques:, CPM
31	Working on project management techniques: WBS.
32	Report writing

Suggested Readings

1.Text Books

- 1. Kelkar S.A (2009). Information Technology Project Management, Asoke K.Ghosh, PHI Learning private limited, M-97, Connaught circus, New Delhi 110001
- 2. Larry Richman (2009). Project Management Step- By-Step, Asoke K.Ghosh, PHI Learning private limited, M-97, Connaught circus, New Delhi 110001

2.Reference Books

- 1. Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- 2.. Ray, G.L. (2004), Extension Communication and Management. New Delhi: Kalyani Publishers.

3.e-Books

Project Management books - Bookboon

bookboon.com/en/project-management-ebooks

Project Management - Bookboon

bookboon.com/en/projectmanagement-ebook

Free Project Management eBooks, Templates and Checklists

www.free-management-ebooks.com/skills-project.htm

Project Management Principles | Free eBook in PDF Format

www.free-management-ebooks.com/dldebk/dlpm-principles.htm

Free Project Management Books: PDF Download - Online ...

www.onlineprogrammingbooks.com/project-management/

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group27.narod.ru/ucheba/files/McGraw_Hill-**Project_Management**.pdf

Operations & Project Management - Free E-Books - E-Books Directory

www.e-booksdirectory.com > Business & Investing

Project Management ebook, Project Management Can Be Easy!

https://www.easy**project**s.net/**ebook**/

Project Management: 19 Sites & Hundreds of Free Ebooks | Download

www.getfreeebooks.com/project-management-19-sites-hundreds-of-free-ebooks/

Course No. CECM 366 Title Women in Agriculture

Credits 2 (1+1) Semester VI

Theory

Agricultural and allied sectors in rural India, role of women in agricultural and allied sectors, status of farm women -Social, economic and health status of women in agriculture, Women friendly tools and implements, Gender issues, Women in agriculture Policy, Programmes

(Government and non-government) and institutions for women in agriculture, Women empowerment in agriculture, Agripreneurship and training to farmwomen.

Practical

Introduction of women friendly technologies i.e. cotton picking coat, improved sickle Study of women Self Help group, Visit to enterprises set by Women SHGs, Study of women empowerment programmes i.e. NATP, AICRP, Visit to MAVIM

Teaching Schedule-Theory With Weightages(%)

Lecture No.	. Topics	
		(%)
1	Agricultural and allied sectors in rural India	5
2&3	Role of women in agriculture and allied sectors	10
4to6	Status of farm women -Social, economic and health status	15
7to9	Women friendly tools and implements	15
10	Gender issues in agriculture	10
11&12	Women in agriculture policy	10
13&14	Programmes (government and non-government) and institutions for women in agriculture	15
15	Women empowerment in agriculture	10
16	Agripreneurship and training to farmwomen.	10
	Total	100

Practical Exercises

Exercise	Title
No.	
1	Orientation to practical course
2	Introduction of women friendly technologies i.e.
	Study of cotton picking coat,
3	Study of improved sickle, milking stand& stool
4	Study of maize Sheller, gopal khore
5	Study of Sulbha bag, mittens
6	Visit to women Self Help Group
7	Study of different activities of Self Help Group
8	Report writing
9	Visit to enterprises set by Women SHGs

10	Report writing
11	Study of women empowerment programmes i.e. NATP,
12	Report writing
13	Study of AICRP
14	Report writing
15	Visit to Mahila Arthik Vikas Maha Mandal
16	Report writing

Suggested Readings

1.Text Books

1. Antwal P.N., Murali D. (2004). Extension Education

2. Reference Books

1.Stephen A. (2006). Communication Technologies and Women empowerment, (81-7880-256-2), Rajat Publication 4675/21, Ganpati Bhawan, Ansari Road, Durya Gunj, New Delhi 110002

2. Jandhyala B.G Tilak (2007). Women's Education and Development, Gyan Publishing House 5, Ansari Road, Daryagani, New Delhi – 110002

3. e-Books

e-books | Indian Council of Agricultural Research

www.icar.org.in/en/taxonomy/term/156

Gender in Agriculture - Closing the Knowledge Gap | Agnes R ...

www.springer.com/gp/book/9789401786157

Women in Agriculture: A Guide to Research (Women's Source Library ...

https://www.amazon.com/Women-Agriculture...Womens...ebook/dp/B009W3VXSO

Amazon.com: Women in Agriculture Worldwide: Key issues and ...

https://www.amazon.com/Women-Agriculture-Worldwide...ebook/.../B01HTHAWW...

FAO e-book collection | FAO | Food and Agriculture Organization of the

www.fao.org/publications/e-book-collection/en/

Gender in Agriculture Sourcebook - E-Book - Cruz Roja

www.livelihoodscentre.org/-/gender-in-agriculture-sourcebo-1

Women and Agriculture - A case study of a rural village in ...

www.grin.com > Catalog > African Studies

E-Books | National Portal of India

https://india.gov.in/my-government/documents/e-books

Course No. EDNT 121 and EDNT 242

Title Educational Tour I (M.S.) and Educational Tour II (India) Semester II& IV

Credit 1(0+1)

Formats for Study Tour or Educational Tour Report and For Its Evaluation

- 1. Maharashtra Study Tour or 1. India Study Tour
- 2. Name of the student
- 3. Reg. No:
- 4. Tour In-charge Professors
- 5. Duration and Dates of Tour
- 6. Visited Places, Institutions, Companies and Historical Monuments and Their Specialties

Place	Date and Time	Names and Its Specialties			Learning
		Institutions	Companies	Historical	outcome
				Monuments	

7. Shouldered responsibilities related to the tour (Prior to tour / During tour) individually and in group

(Rating points – Excellent-5, Very good-4, Good-3, Fair-2, Just OK -1, Poor-Nil)

Shouldered Duties	Individually / In	Self- Rating about
	group	Performance
1 Collection of information		
about places to be visited and presenting it in class		
2 Making list of materials		
required for tour by all and getting them issued from		
College and using them wisely in tour		
3 Photo shoot work of all in all places (formal and		
candid ones) 3 groups		
4 Discipline task – Taking roll call before and after		
visits, announcing timings of it and monitoring time		
management of all		

Shouldered Duties	Individually / In group	Self- Rating about Performance
5 Taking care of money collection – for ticketing		
trains/ buses, historical places, common eatables etc		
6 Attending health issues of		
Classmates- first aid, other help		
7 Taking care of safety of belongings of students		
and college in tour		
8 Making thanks giving cards using creativity, with		
good finish and messages to present to staff /		
institutions to express gratitude for their help		
9 Taking care of cleanliness		
in vehicles, at accommodation places		
10 Taking care of inter- personal relations of students		
with positive and professional attitude for group		
coherence		
11 Taking care task of trouble- shooting throughout		
the tour		
12 Rendering assistance to staff for successful tour		
13 Any other		

Marking Scheme for Evaluation of Educational Tour

S.No	Items	Allotted Max. Marks (50)	Acquired by each student
1	Tour dairy evaluation	20	
2	Shouldered duties in group / individually	10	
3	Presentation of tour report with picturess in PPT in group (PPT Slides must divided by group mates and each one should present their share)	10	
4	Discipline, devotion and sincerity	10	
	Total	50	

Format for Compilation of Results of Students For Educational Tour 1 & 2

S.No	Reg. Number	Name of student	Tour dairy evaluation 20 marks	Shouldered duties in group / individually	Presentation of tour report with pictures in PPT –group wise 10marks	Discipline, devotion and sincerity	Total 50marks	Remarks
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Student READY Programme

Course No.SRP 471(HDS/RMCS/FSN/TAD) Title Implant Training

Credit 10(0+10) Semester VII

Students will attend the training in various related centers and will be evaluated on following points

S. No.	Particulars	% mark for each item	Allotted marks
1	Regularity, sincerity and devotion	25%	125
2	Initiative, confidence and skill acquisition	35%	175
3	Project report and presentation	30%	150
4	Viva voce examination	10%	50
	Total	100	500

Course No. SRP 472 Credit 10(0+10)

Title Rural Awareness Work Experience Semester VII

Model Work Schedule of RAWE

S.No.	Activities
1.	Orientation of RAWE programme
2.	Introduction of RAWE students to the Grampanchayat members, Anganwadi tai, Teacher's, Students
3.	Introduction of RAWE students to the selected families and other related work
4.	Visit to various places in village for collection of information for village profile.
5.	Children's GQ assessment camp in Anganwadi
6.	Children's GQ assessment camp in Schools
7.	Children's GQ assessment camp in colony
8.	Preparation for poster making
9.	Visit to Local Banks and Interview with Managers
10.	Celebration of National Nutrition Week & Demos on Nutritious recipes
11.	Swacchata abhiyan in Anganwadis and Schools
12.	Survey of families and Swacchta Abhiyan at PHC
13.	Exam of Poster presentation
14.	Lecture on anemia, malnutrition, obesity & demos on value added food products
15.	Demo on Tie and Dye
16.	Demo on patch work and embroidery
17.	Conducting activities in AW and rapport building with the adopted families and collection of required information for assessing needs and planning intervention activities.
18.	Documentation and keeping record
19.	Demonstration on Best out of Waste in Schools
20.	Tree Plantation at village

21.	Demos on soya and other food products.
22.	Lecture on resource management in families
23.	Demo on best from waste in school & conducting activities for Developmentally challenged child in family
24.	Documentation & keeping records
25.	Preplanning for workshop
26.	Organization of workshop in Z. P. School for Enhancing Scholastic Achievement of School Students
27.	Documentation and keeping record
28.	Demonstration on nutritious recipes
29.	BP, Hb, Blood group Check up camps in village
30.	Demo on handicraft articles
31.	Demo on embroidery stitches for school drop girls
32.	Celebration of Mahatma Gandhi Jayanti in the College of Home Science and participating in Swacch Bharat Abhiyan
33.	Preparation for workshop and Collection of exhibits from the various departments of College of Community Science
34.	Documentation and keeping record
35.	Family interventions
36.	Celebration of world food day
37.	Documentation and keeping record
38	Demo on pickles, chutney
39	Winding up of RAWE programme

Report on Village Profile should include following aspects

- 1. Cultural practices
- 2. Historical events
- 3. Political scenario
- 4. Religious & cast demography5. Population & its other details (Age distribution of people, Mortality rate, Birth rate, Fertility rate etc)
- 6. Educational facilities

- 7. Supportive educational facilities
- 8 Human Development Index of the Taluka, District and village
- 9. Farming practices and Common Crops, Irrigation and dry Lands
- 10. Burning problems of village (Farmers' problems water, seed, fertilizers), women, children and youth of the village
- 11. Marketing, Canteen facilities cost effective nutrition, readymade foods sold
- 12. Health problems and survey report of special children in ICDS centre
- 13. PHC facilities and its status and private medical facilities and other out sourcing
- 14. Transport facilities
- 15. Water facilities

RAWE Marking Scheme 10(0+10)

S. no.	Particulars	% mark for	Allotted
		each item	marks
1	Survey- assessing village people needs (Pre RHWE)	10	50
	& getting feedback (Post RHWE)		
2	Exhibition and rally(Group work)	10	50
3	Preparation of Audio visual aids(Individual)	10	50
4	Family Interventions (Individual work)	10	50
5	Mass community Education Programme(Group	05	25
	work)		
6	Work diary + Work documentation (Photos	10	50
	+Record)		
7	Oral presentation of field work	10	50
8	Written examination on field work	20	100
9	Viva-voce examination	05	25
10	Attendance (Individual)	10	50
	Total	100	500

Course No. SRP 481(HDS/RMCS/FSN/TAD) Title Experiential Learning Programme Credit 20(0+20) Semester VIII

Title of

Module-IProduct and Entrepreneurship Development will be offered by all the Departments of RMCS and TAD with the themes like

Resource Management and Consumer Science (RMCS)

1. Interior Design and Decoration

OR

2. Tourism and Hospitality Management

OR

Textiles and Apparel Designing (TAD)

- 1. Apparel Design Techniques Flat Pattern and Draping
- 2. Fashion Illustrations

Module-II : Community Nutrition and Welfare (HDS/FSN) will be offered by all the Departments of HDS and FSN with the themes like

Human Development and Studies (HDS)

1. Production of Educational Learning Material for Children

OR

2. Production of aids for Developmental Assessment of Children

OR

3. Preparation of Creative Activities Manual and Conduct of Workshops

OR

Food Science and Nutrition (FSN)

1. Value Added Snacks

OR

2. Functional Food Products

OR

3. Preserved Food Products

Experiential Learning Work Schedule for Students

S.	Particular	No. of
No.		weeks
1	Orientation to respective ELP modules by experts and successful	1
	entrepreneurs	
2	Market survey for products production	1
3	Plan of product preparation & for Execution	5
4	Execution of planned work including	8

	Marketing strategies and quantum of product prepared	
5	Report presentation (PPT)	1
	Including products made, sold, accounts keeping, cost effectiveness and	
	declaration of benefit shares	
6	Final viva-voce: ELP Incharge officer, HOD, & ADP as External Examiner	
	Total	16

Experiential Learning Programme Marking Scheme

Sr. No.	Particular	% marks for each	Allotted
		item	marks
1	Attendance, devotion, sincerity	10 %	100
2	Market Survey	5 %	50
3	Product preparation & execution plan	15 %	150
4	Execution of planned work	40 %	400
5	Marketing strategies	5 %	50
6	Quantum of product prepared	5 %	50
7	Report presentation (PPT)	10 %	100
	Including products made, sold, accounts		
	keeping and cost effectiveness		
8	Final viva-voce : HOD, ELP In-charge officer	10 %	100
	& ADP as External Examiner		
	Total	100 %	1000

Note: The seed money required for Experiential Learning Programme will be given from Revolving Fund of College of Community Science. The profit gained will be distributed to the students as per the rules in vogue.

Manual of Rural Area Work Experience (RAWE)

SRP 472 (0+10)





College of Community Science Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani (MS)

COLLEGE OF COMMUNITY SCIENCE VNMKV PARBHANI

Certificate

It is to certify that this is the record of Rural Area Work Experience (RAWE)
SRP 472 (0+10) carried out by Groupin the Course of RAWE Programme
during semester of III B.Sc (Hons) Community Science

Course Professor Student

External Examiner
College of Community science

Associate Dean & Principal

VNMKV Parbhani

INDEX

S. No.	Phase wise work	Date	Page no.	signature
1	Village survey			
2	First fort night			
3	Second fort night			
4	Third fort night			
5	Fourth fort night			
6	Win -Win experience			

Prepared by **Prof. Vishala Patnam**, ADP, College of Community Science and **Dr. Madhuri Kulkarni**, Course Coordinator of RM & CS and Exam Cell In-charge. Year 2017-18

Acknowledgement

(Sign and name of Group mates)			
6 7 8 9 10			
1. 2 3 4 5			
stage of this RAWE programme.			
participants of village and authorities for their warm co-operation and help at every			
We would like to express deeply felt gratitude and sincere thanks to all the			
ICDS staff for helping us in different ways for the success of RAWE activities.			
for doing the needful. We are grateful to the Headmaster and staff of Z.P.school and			
giving permission to us to undertake RAWE programme in village and			
We are thankful to the Sarpanch Mr/ Mrs for			
village Tq Dist			
activities and guiding us throughout the RAWE programme at			
for timely checking of our work schedules, supervising the implemented			
and			
, ·			
,,			
making necessary arrangements and to all the Subject Matter Specialists(SMSs)			
thankful to In charge professor of RAWE programme Proffor			
interest in the RAWE programme and for guiding us from time to time. We are			
Principal, College of Community Science, VNMKV, Parbhani for taking keen			
much grateful to Prof Associate Dean and			
We the students group of RAWE, College of Community Science are very			

RAWE Programme SRP 472 (0+10)

Period of RAWE Programme

	From to				
Timings	Timings				
	pm				
Group Name					
S.No.	Name of Group Members	Cell Numbers			
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Introduction

The curriculum of B.Sc. (Hons) Community Science degree programme covers different aspects of community life scientifically. The students of degree programme study different social, economical, psychological, developmental aspects of rural people and families. Human resource development in rural sector with focus on development& welfare of families and community is an ultimate goal of education, imparted by the College of Community Science.

The concept of learning and giving (Win-Win) through experiences in real life situation of community is included into the curriculum development of Community Science. The process of learning in field situations is super imposed on knowledge acquired in classroom situation. The students after graduation give direction and indirectly work for upliftment of rural families and also for improving their living standards. It is therefore essential to expose the students to real life situations and to get them acquainted to various issues /problems of rural community, before they complete the degree programme.

Objectives

- To provide an opportunity to develop right perspective of rural life and to develop positive & right attitude towards rural community
- To provide an opportunity to the students to have practical learning in real life situations
- To develop effective communication skills in the students; enable them to use extension education teaching methods and aids in transfer of Community Science technologies and to make them ultimately Community Science better extension workers

- To have general observation of the village and interview people for collecting information to makethe brief and comprehensive profile of the operational village and to work out on work schedules
- To help the students in gaining firsthand experience in the application of Community Science knowledge and skills for better living of rural people
- To make students to get acquainted with the Govt. & Non-Government Organizations working for the rural development and to provide them an opportunity to collaborate with these organizations in conducting activities
- To enable students to observe and learn the best practices of rural families/ people in various aspects of life, agriculture and allied occupations to have Win-Win (giving to them as well as taking from them) experiences

Pic of group members with ADP & SMS

Phase- 1 Report Date: Operational Village Survey

Introduction

Survey of the operational village is an important task for understanding the people living in the village, their socio-cultural scenario, available facilities, their merits and limitations to make it a base for planning, executing various activities effectively for their welfare and development. Survey schedule is a tool to collect detailed information about the profile and actual situation / condition of operational village, major crops, village's geographical area, irrigation land, dry land, livestock, population demography, male& female, literacy, mortality rates, health issues, health facilities preschool and educational facilities, marketing facilities, traditions, customs and cultural practices in vogue, religious and recreational facilities, trading and banking facilities, influencing of village people, political parties and agencies, availability of water and different water sources, irrigation practices, income generation activities and opportunities and so on.

Objectives

- To obtain basic information about operational village
- To identify the needs and requirements of the village and villagers
- To plan need based intervention programmes with clarity and justification for executing it well
- To organize workshops as per the requirement of the villagers with the help of different experts of Community Science

Important points to keep in mind while conducting the operational village survey

•	Village name			
•	Taluka			
•	District			
•	Total population of village		-	
•	Male Population	_		
•	Female Population	_		
•	Child population	_		
•	Youth population	_		
•	MMR IMR		CMR _	
•	HDI (Human Development Index) o	f Taluka/	District _	

Educational Institutes

S. No.	Institutes	Number of institute
1	Anganwadies	
	Pre-primary schools	
	Private	
	Govt.	
2	Primary schools	
	Private	
	Govt.	
3	High schools	
	Private	
	Govt.	

4	Colleges (Std level)	
	Private	
	Govt.	
5	Technical institutes/Training	
	centres (Names)	
6	Computer institutes	
	MSCIT Courses	
8	Others, if any	
	a.	
	b.	
	c.	

Health facilities

S.	Clinics	Number
No.		
1	Government hospital/PHC	
2	Private health clinics for adults	
3	Private health clinics for children	

Sources of water & drinking water facilities

S. No	Facilities	Number
1	Tube well with hand pump	
2	Tube well with electric motor	
3	Open well	
4	Water lake	
5	Water canal	
6	River	
7	Anything else	

Mainly grown crops

S. No.	Crops	Acres (If possible)
1	Cash crops	
	a.	
	b.	
	c.	
2	Cereals& Pulses	
	a.	
	b.	
	c.	
3	Any other	
	a.	
	b.	
	c.	

Mainly grown vegetables &fruits

S. No.	Name of the vegetables/fruits	Acres
1		
2		
3		
4		
5		
6		

Socio-economic-recreational centres and agencies

S.No.	centres/agencies	Yes/No
1	Milk co operative society	
2	Farmers associations	
3	Mahila mandal	
4	Self-help group	
5	Youth organization	
6	Bhajani mandal	
7	Others if any	

Administrative offices

S. No.	Administrative offices	Yes/ No
1	Grampanchayat	
2	Govt. co-operative society	
3	Talathi office	
4	Police station	
5	Any other	
	1	
	2	
	3	

Transport &market facilities

S. No.	Facilities	Yes/ No
1	State Transport Buses (ST)	
2	Private Tempo/ Truck	
3	Approach roads (Good/Fair/Poor)	
4	Local Market Place (Day)	
5	Taluka Market Place (Day)	
6	Any other	

Communication facilities

S. No.	Communication Facilities	Yes/ No
1	Post office	
2	STD booths	
3	Cell recharge booths	
4	Community Hall	

Cultural& religious celebrations

S No.	Celebration of festivals	Yes/ No
1	Ganesh Ustav	
2	Pola	
3	Durga Ustav	
4	Jatra/ Mela	
5	Urus	
6	Any other	

Phase- 2 work Date:

Work Report of RAWE Programme of First Fortnight

Duration:		to	
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Objectives

- To get orientation of RAWE programme from the Principal and Subject Matter Experts (SMSs)
- To select and procure needed educational material from various departments of the College of Community Science for rally, family and child interventions and exhibitions
- To conduct survey in the operational village for collecting information from various sources to make good profile of operational village
- To conduct the survey of Anganwadies and families to be adopted for identifying their needs to plan intervention programmes
- To select families and children to be adopted for intervention
- To participate in social welfare programmes of University or College (if any)

Planned work items

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•
Work completed successfully
•
•
•
•
•
Feedback of students about it
Feedback of beneficiaries about it
Feedback of Subject Matter Experts about it

Phase-3 work Date:

Work Report of RAWE Programme of Second Fortnight

Duration-	t	to	
Dui auvii-	(w	

Objectives

- To interact with village families for collecting the required information for assessing family needs and planning intervention activities for seeking approval of Subject Matter Specialists (SMSs)
- To clean up community hall/ place decided for holding educational programmes
- To enhance quality and value addition to educational activities of Anganwadi children and programmes
- To assess growth quotient of young and school going children for parent education to eradicate malnutrition and growth disorders in children
- To organize community welfare workshops by Community Science experts for rural mothers/parents for enhancing child development index
- To organize educational rally for inspiring and educating community for their welfare

Planned work items

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Phase- 4 work

Date:

Work Report of RAWE Programme of Third Fortnight Duration of third fort night: ----- to -------

Objectives

- To arrange a workshop on teenage girls'care and development for teenage girls and their parents.
- To organize exhibition of Community Science technologies & books and it's sales counter
- To conduct various kinds of Demos on the need of rural youth and parents
- To give 2-3 days intensive training for skill development based on the items demanded by youth or women

Planned work items

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Work	completed successfully
•	
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•	
•	
•	
Fe	edback of students about it
Fe	edback of beneficiaries about it
Fe	edback of Subject Matter Experts about it

Date:

Work Report of RAWE Programme of Fourth Fortnight

	Duration to
Objec	tives
•	
•	
•	
Plann	ed work items
•	
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•	
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•	
Work	completed successfully
•	

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•	
•	
•	
Feedback of students about it	
	-
Feedback of beneficiaries about it	
Feedback of Subject Matter Experts about it	

Phase- 6 work

Date:

Win-Win Learning Experiences of Rural people and Students in RAWE Programme

Introduction

The college of Community Science always educates students to pick up best traditional practices from the rural families or area which even could be validated scientifically as the best practices and useful for all. With this intent, the RAWE students are encouraged to observe carefully the rural people's adopted practices in various aspects of life and pick up the best practices related to any discipline of Community Science and learn about it deeply from those people as well to appreciate them for it. The students also are expected to disseminate the need based Community Science technologies by adopting useful and effective extension education methods and aids after conducting needs assessment of rural children, youth and families. The RAWE students are expected to do self-evaluation and group evaluation based on their experiences in RAWE programme.

Benefits gained by Rural People from RAWE activities or programmes conducted by students and by experts of Community Science

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Bene	Benefits gained by students from RAWE programme		
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Com	munity Science Subject Matter Specialists'feedback		
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