



University of Rajasthan Jaipur

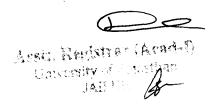
SYLLABUS

M.Sc.

(Home Science)

2015-2016 (I & II SEMESTER)

2016-2017 (III & IV SEMESTER)



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UNIVERSITY OF RAJASTHAN JAIPUR SYLLABUS

M.Sc HOME SCIENCE (SEMESTER SCHEME)

(2015-2017) K.

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UNIVERSITY OF RAJASTHAN **JAIPUR SYLLABUS**

SCHEME OF EXAMINATION AND **COURSE OF STUDY**

FACULTY OF SCIENCE M.Sc HOME SCIENCE (SEMESTER SCHEME) FOODS AND HUMAN NUTRITION

M. Sc. (I and II Semester) Examination, 2015-2016 M. Sc. (III and IV Semester) Examination, 2016 - 2の子

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M.Sc. Home Science FOODS AND HUMAN NUTRITION

Subject Code: FHN Course Category

CCC: Compulsory Core Course

DIS: Dissertation

Contact Hours per week

L: Lecture T: Tutorial P: Practicals **ECC: Elective Core Course**

SSECC: Self Study Elective Core Course

M.Sc. HOME SCIENCE

First and Second Semester Scheme Examination, 201 Third and Fourth Semester Scheme Examination, 201

Scheme of Examination:

- 1. Each theory paper EoSE shall carry 100 marks The EoSE will be of 3 hours duration. Part 'A' of the theory paper shall contain 10 Short Answer Questions of 20 marks, based on knowledge, understanding and applications of the topics/texts covered in the syllabus. Each question will carry two marks for correct answer.
- 2. Part "B" of paper will consist of four questions as suggested below except in cases where a different scheme is specified in the syllabus.
 - First question will contain 6 parts out of which 4 to be answered carrying weightage of 5 marks each. Word limit for each answer will be 50-70 words.
 - There shall be 3 questions (with internal choice) of 20 marks each. The word limit for each answer will be 1000 words.
- 3. Each laboratory EoSE will be of four/six hours duration and involve laboratory experiments/exercises, and viva-voce examination with weightage in ratio of 75:25.

Course Structure:

The details of the courses with code, title and the credits assigned are as given below.

Abbreviations used:

Course category:

CCC: Compulsory Core Course ECC: Elective Core Course

SSECC: Self Study Elective Core Course SSCCC: Self Study Compulsory Core Course

DIS: Dissertation
Contact hours

L: Lecture
T: Tutorial
P: Practical

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S.	Subject	Course Title	Course	Credit	Conta	et Hour	s Per	1	Duration
No.	Code		Category		L	Week T	P	Thy	rs.)
1.	FHN 101	Research Methodology	CCC	4	4	0	0	3	0
2.	FHN 102	Nutritional Biochemistry-I	CCC	4	4	0	0	3	0
3.	FHN 103	Food Science and Quality Control	CCC	4	4	0	0	3	0
4	FHN 104	Human Nutritional Requirements	CCC	4	4	0	0	3	0
5	FHN 105	Human Physiology	CCC	4 .	4	0	0	3	0
6	FHN 111	Nutritional Biochemistry-I	CCC	4	0	0	6	0	6
7	FHN 112	Food Science and Quality Control	CCC	4	0	0	6	0	6
8	FHN 113	Human Nutritional Requirements	CCC	4	0	0	6	0	4
9	FHN 114	Human Physiology	ECC	4	0	0	6	0	4
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CCC = 32, ECC = 4Total = 36 credits

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Second Semester

S.	Subject	Course Title	Course	Credit	Cont	act Hour	s Per	EoSE	Duration
No.	Code		Category			Week		1	Hrs.)
					L	T	P	Thy	P
1.	FHN 201	Statistics	CCC	4	4	0	0	3	0
2.	FHN 202	Nutritional Biochemistry- II	CCC	4	4	0	0	3	0
3.	FHN 203	Food Microbiology	CCC	4	4	0	0	3	0
4	FHN 204	Human Nutritional Problems	CCC	4	4	0	0	3	0
5.	FHN 205	Food processing	ECC	4	4	0	0	3	0
6.	FHN211	Computer Applications	CCC	2	0	0	3	0	4
7	FHN 212	Nutritional Biochemistry –II	CCC	4	0	0	6	0	6
8	FHN 213	Food Microbiology	CCC	4	0	0	6	0	4
9	FHN 214	Human Nutritional Problems	CCC	4	0	0	6	0	4
10.	FHN 215	Food processing	ECC	2	0	0	3	0	4
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CCC = 30, ECC = 6Total = 36 credits

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Third Semester

			Third Se	mester					
S. No.	Subject Code	Course Title	Course Category	Credit	1	tact Ho er Wee			E Duration rs.)
1.00					L	T	P	Thy	P
1.	FHN 301	Clinical Nutrition and Dietetics- I	CCC	4	4	,	0	3	0
2.	FHN 302	Public Health Nutrition - I	CCC	4	4	0	0	3	0
3.	FHN 303	Institutional Food Administration – I	CCC		4	0	0	3	0
4.	FHN 304	Food and Nutrition Security	ECC	4	4	0	0	3	0
5	FHN 311	Clinical Nutrition and Dietetics- I	CCC	4	0	0	6	0	6
6	FHN 312	Public Health Nutrition –I	CCC	4	0	0	6	0	4
7	FHN 313	Institutional Food Administration - I	CCC	4	0	0	6	0	6
8	FHN 314	Scientific writing -I	ECC	2	0	0	3	0	4
9	FHN 315	Dissertation -I	CCC DIS	6	0	0	9	0	4
				36					

CCC = 30, ECC = 6 Total = 36 credits

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Fourth Semester

			Fourth Se	emester					
S.	Subject	Course Title	Course	Credit	1	tact Ho		EoS	E Duration
No.	Code		Category		L	er Wee		<u> </u>	(Hrs.)
					L	T	P	. Thy	P
1.	FHN 401	Clinical	CCC	4	4	0	0	3	0
		Nutrition and Dietetics-II							
2.	FHN 402	Public Health Nutrition – II	CCC	4	4	0	0	3	0
3.	FHN 403	Institutional Food Administratio n - II	CCC	4	4	0	0	3	0
4	FHN 411	Clinical Nutrition and Dietetics-II	CCC	4	0	0	6	0	6
5	FHN 412	Public Health Nutrition – II	CCC	4	0	0	6	0	4
6	FHN 413	Institutional Food Administratio n - II	CCC	4	0	0	6	0	6
7	FHN 414	Scientific Writing- II	ECC	2	0	0	3	0	4
8	FHN 415	Dissertation - II	CCC DIS	6	0	0	9	0	4
9	FHN 416	Skill Development in Foods and Nutrition	ECC	4	0	0	6	0	4
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CCC = 30, ECC = 06 Total = 36 credits

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SEMESTER I

	RESEARCH METHODOLOGY (THEORY)	 .
Paner	Code: FHN 101	
	Marks: 100	
	ing Hours: 4 Hours/Week	
	Feaching Workload: 48 Hours/Semester	
Object		
1.	To understand the basic concepts of research methodology.	*
2.	To be able to understand the various steps of research methods.	
3.	To enable the students to understand various research designs, sampling techniques, metho	ds of
	collecting data.	
4.	To enable the students to prepare and present report for dissertation purpose.	n^{i+1}
Conter	nts:	
UNIT-		Hours
1.	Research purpose and objectives.	4
2.	Definition and Identification of research problem, selection of problem, hypotheses,	
	basis assumption and limitation of problem.	4
3.	Review of literature: Importance, sources and writing review of literature.	6
4.	Research designs: Purpose and types.	6
UNIT-		
5.	Technique of sampling- Census and sampling methods, probability and non-probability	4
	sampling procedures, sample size.	1
6.	Data gathering instruments, measurements and scales, reliability and validity of	1
	measuring instruments- Questionnaire, Schedule, Score card, Checklist.	6
~	Methods of collecting data: Questionnaire, interview technique, observation, case	4
7.	study, focus group discussion.	1
UNIT-		L
8.	Planning, executing and analysis of large scale surveys with special emphasis of	4
	surveys in Home Science.	
9.	Presentation and preparation of report for dissertation publication.	4
	Bibliography: Importance of method of writing references of book, journals,	
10.	proceedings and websites.	6
Refere		
	. Simpson, George, Kafka, Fritz. Basic statistics: a textbook for the first course, Oxford an	d IBH
•	Publishers, New Delhi, 1977.	id iDiti
2	. Taro Y. Sampling Theory, Prentice-Hall Publishers, New Delhi, 1967.	
3	. Snedecor and Cocharan, Statistics Methods, Oxford and I.B.H. Publishers, Calcutta, 1968.	1
	. Gupta SP. Statistics Methods, Sultan Chand and Co., New Delhi, 2008.	
5	. Good CV and Carter DE. Methods of Research-Educational Psychological Application, C	entury
_	Craft, New York, 1954.	
	Kerlinger FA. Foundation of Behavioural Research, Century Craft, New York, 1966. Vound PV and Schind CG. Scientific Social Survey and Research Prentice Hell New York	Dolla:
/	Yound PV and Schind CG. Scientific Social Survey and Research, Prentice Hall, New 1968.	וווטלוו,
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- - 8. Philips BS. Social Research, Strategy and Tactics, MacMillan, New York, 1976.
 - 9. Mussed P. Hand book of Research Methods in Child Development, John Wiley & Sons Inc,
 - 10. Devdas RP and Kulandaivel. Hand Book of Research Methodology, Sri Ram Krishna mission vidhyalaya, 1971.
 - 11. Krishnaswami RP. Methodology of Research in Social Sciences, 1st edition, Himalaya Publishing house, Mumbai, 1993.

NUTRITIONAL BIOCHEMISTRY-1(THEORY)

Paper Code: FHN 102 Max. Marks: 100

Teaching Hours: 4 Hours / Week

Total Teaching Workload: 48 Hours/ Semester

Objectives:

- 1. To augment the biochemistry knowledge acquired at the undergraduate level.
- 2. To understand the basic nature of bio molecules.
- 3. To become proficient for specialization in nutrition.
- 4. To understand the mode of action of hormones in the human body.

Contents: UNIT-I Hours Carbohydrates: classification, isomers, rings structure, proof of ring structure, reaction 1. 8 due to CHO group, sugar derivatives of biological importance, polysaccharides (homoglucans and heteroglucans), detailed structure of starch. 2. Lipids: Classification, Structure and chemical properties and characterization of Saturated and unsaturated, Fatty acids, essential Fatty acids and their importance Steroids Fat Phospholipids: Rancidity - Definition, types, mechanism, prevention 8 UNIT- II Proteins: Importance, classification of amino acids (Essential and Non Essential Amino 3. Acids), reactions of amino acids, structure of proteins, properties, proof of peptides bond, methods of separation and determination of amino acids and peptides, estimation of amino acid sequence. Nucleic Acids: Structure, importance and role of 4. 8 Bases Nucleotides Nucleosides DNA **RNA** UNIT-III Hormones: mode of action and biochemical role of Я Interstitial Cell Stimulation Hormones Adreno Cortico Tropic Hormone Follicle Stimulating Hormone Growth Hormone Thyroid Stimulating Hormone

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6.	Steroidal Hormone (Adrenal Cortex, Sex Hormones)	382
1	Blood Chemistry Composition, haemoglobin, erythropoeisis, plasma proteins (Types,	
	properties and methods of separation of plasma proteins), coagulation of blood.	<u> </u>
Refer	ences:	
1.	Martin DW, Mayes PA and Rodwell VW. Harper's Review of Blochemistry. 19th Edition.	LANGE
	Medical Publications, MARUZEN Asia, 1983.	
2.	Pike RL and Brown ML. NUTRITION an Integrated approach. 3rd Edition, John Wiley a	nd Sons,
	New York, 1984.	1000
3.	Oser BL. Hawk's Physiological Chemistry. 14 th Edition. McGraw Hill Book co. New York Nelson DM and Core MM. Principles of Biochemistry 4 th ed. Freeman & Co., 2005.	, 1905.
	Devlin TM. Text Book of Biochemistry with clinical Correction, 5 th ed. Wiley & Sons, 200	2
	Chatterjea MN, Shinde R. Textbook of Medical Biochemistry. 4 th Edition, Jaypee Brothers	
0.	Publishers (P) Ltd. New Delhi, 2000.	Micai
7	West ES, Todd WR, Mason HS and Van Bruggen JT. Textbook of Biochemistry. 4th	Edition.
1	MacMillan Co. Collier Ltd. London, 1974.	
8.	Murray RK, Granner DK, Meyer PA and Rodwell VW. Harper's Illustrated Biochemis	try. 26 th
1	edition. McGraw Hill Asia, 2003.	
9.	Robinson CH and Lawler MR. Normal and Therapeutic Nutrition, Macmillon, NewYork, 19	986.
10	Lehninger AR. Biochemistry. 2 nd Edition. Kalyani Publishers, 1975.	·
11	. White A, Handler P and Smith EL. Principles of Biochemistry. McGraw Hill Book Co., New	w York,
	1959.	
	FOOD SCIENCE AND QUALITY CONTROL (THEORY)	
Paper	Code: FHN 103	
Max.	Marks: 100	
Teach	ning Hours :/4 Hours / Week	1
	Teaching Workload: 48 Hours/ Semester	1
Objec		
	To enable students to understand the physico-chemical properties of foods.	, }
7	To make the students aware about effects of common food processing techniques on food.	ľ
	Understand and know various aspects of food product development.	
J.	Onderstand and know various aspects of food product development.	
Conte		
UNIT		Hours
1.	Physical, chemical and functional properties of protein, carbohydrates, lipids, water,	9
^	pigment and flavours.	_
2.	Physical Properties of Food -Hydrogen - ion concentration, oxidation - reduction	7
	potentials, surface tension, adsorption, viscosity, plasticity, iso-electric points or proteins,	
UNIT-	colloidal chemistry of foods - sols, gels, foams and emulsions.	
	Food Processing Technique: freezing, thermal processing, dehydration, irradiation	
3. 4.	Chemical, physical nutritional alteration occurring in food products during food	6
4.	processes: freezing, thermal processing, dehydration, irradiation and environmental	6
5.	control.	4
J.	Quality control and management.	4
UNIT-	<u> </u>	
6.	Important food quality attributes	10
) .	Sensory quality - colour, texture, flavour and taste Rheology	10
	Microbiological quality nutritional quality evaluation for food products.	
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- 7.
 - Food Adulteration
 - Self life studies

New Product Development

- Market Research
- Consumer dynamics
- Process of development and standardization
- Labeling
- Marketing
- **Quality Evaluation** Entrepreneurship

References:

- 1. Manay NS and Shadaksharaswamy M. Foods Facts and Principles.3rd edition, New Age International (P) Limited, publishers, New Delhi, 2008.
- 2. Potter NM. Food Science, The AVI Publishing Co., Inc., Connecticut, 1995.
- 3. Fennema OR. Food Chemistry. Marcell dekker, Inc., New york, 1996.
- 4. Charley H. Food Science, John Wiley and Sons, Inc., New York, 1982.
- 5. Lowe B. Experimental Cookery. John Wiley and Sons, Inc. New York, 1955.
- 6. Meyer LH. Food Chemistry, CBS Publishers and Distributors, New Dellti, 2004.
- 7. Kramer A and Twig B. Quality Control for the Food Industry. Vol. I and II, AVI Publishing Co., London, 1984.
- 8. Hubbard MR. Statistical quality control for the food industry. Van Nostrand Reinhold, New York,
- 9. Fuller GW. New Food Product Development from Concept to Market Place, CRC Press, New York, 1999.
- 10. Winbond W. Techniques of Food Analysis, Allied Scientific Publishers, 1999.
- 11. Chandrashekhar U. Food Science and Applications in Indian Cookery, Phoenic Publishing House, 2002.

HUMAN NUTRITIONAL REQUIREMENTS (THEORY)

Paper Code: FHN 104 Max. Marks:100

Teaching Hours: 4 Hours/Week

Total Teaching Workload :48 Hours/Semester

Objectives:

- 1. To understand the basis of human nutritional requirements and recommendations through life
- 2. To understand the methods of evaluating protein quality and improving the same.
- 3. To understand the nutritional requirements in special conditions.

Contents:

UNIT-I Hours Nutritional requirements and recommended allowances for macro and micro nutrients for 1 the entire life span (infancy to old age).

2. A critical review of the following:

Methods of determining requirements and allowances and body weights

Energy requirements- units, definition, assessment, methods for determining requirements, energy requirements for infants, children, adolescents, adults. pregnancy, lactation.

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Protein requirements – protein quality and protein requirements, human amino acid requirements, quality of protein, methods for arriving at RDAs for Indians, protein requirements during pregnancy, lactation, growth – infants, children and adolescents, adults, protein energy ratio Lipid requirements –functions of fatty acids, recommendations of dietary fat, RDAs for Indians, sources of fat, recommended intakes, quality of fat. Dictary fibre – nutritional and health significance, requirements Minoral requirements – foliome, phosphonus, magnesium, sodium, potassium, iron and zinc- Dietary requirements for different physiological ages and states. Methods for estimating requirements for different physiological ages and states. Methods for estimating requirements – iodine requirements, deficiency, biochemical functions, stores, sources, Trace elements requirements – iodine requirements, deficiency, stoses, RDAs UNIT- II A critical review of the following: Vitamin requirements – Water soluble vitamins – thiamin, riboflavin, niacin, pyridoxine, folic acid, Vitamin B12, ascorbic acid-Functions, sources, requirements, deficiency, stability during processing Fat soluble vitamins – vitamin A and vitamin D– significance, deficiency, dietary sources, requirements, role. Dietary guidelines for Indians Critical evaluation of International recommended dietary allowances – American, Canadian, FAO/WHO/UNU. Nutrition requirements for special conditions Natural calamities and emergencies –floods, earthquakes, famine/drought Extreme environmental temperatures-hot and cold UNIT- III Evaluation of protein quality Analytical methods Relationship of stress and physiological state to the biological evaluation of protein quality of foods from their amino acids content Biological methods Relationship of stress and physiological state to the biological evaluation of protein quality of foods. Relationship of stress and physiological state to the biological evaluation of protein quality. References: I. Evaluation of prote	, 		_
requirements, quality of protein, methods for arriving at RDAs for Indians, protein requirements during pregnancy, lactation, growth – infants, children and adolescents, adults, protein energy ratio Lipid requirements –functions of fatty acids, recommendations of dietary fat, RDAs for Indians, sources of fat, recommended intakes, quality of fat. Dietary fibre – nutritional and health significance, requirements Mineral requirements –calcium, phosphorus, magnesium ,sodium, potassium, iron and zinc- Dietary requirements for different physiological ages and states, Methods for estimating requirements, dietary deficiency, biochemical functions, stores, sources, Trace elements requirements – lodine requirements, deficiency, losses, RDAs UNIT-II 3. A critical review of the following: Vitamin requirements – Water soluble vitamins – thiamin, riboflavin, niacin, pyridoxine, folic acid, Vitamin B12, ascorbic acid-Functions, sources, requirements, deficiency, stability during processing Fat soluble vitamins – vitamin A and vitamin D– significance, deficiency, dietary sources, requirements, role. Dietary guidelines for Indians Cenadian, FAO/WHO/UNU. Nutrition requirements for special conditions Nutrition of protein quality Exterme environmental temperatures-hot and cold UNIT-III 7. Evaluation of protein quality References: 1. Evaluation of protein quality of foods from their amino acids in foods. Evaluation of protein quality. Publication 1100, National Academy of Sciences, National Research Council, Washington, DC, 1963. Nutritional evaluation of protein foods. PL Pellet and VR Young, The United Nations University, 1980. Reghammulu N, Madhvan Nair K and Kalyansundaram S. A laboratory of manual techniques, NIN & ICMR Hyderabad, 2003. Raghuramulu N, Madhvan Nair K and Kalyansundaram S. A laboratory of manual techniques,		Protein requirements - protein quality and protein requirements, human amino according to the protein requirements.	id 8
requirements during pregnancy, lactation, growth – infants, children and adolescents, adults, protein energy ratio Lipid requirements –functions of fatty acids, recommendations of dietary fat, RDAs for Indians, sources of fat, recommended intakes, quality of fat. Dietary fibre – nutritional and health significance, requirements Mineral requirements – calcium, phosphorus, magnesium, sodium, potassium, iron and zino- Dietary requirements for different physiological ages and states. Methods for estimating requirements, dietary deficiency, biochemical functions, stores, sources, or Trace elements requirements – lodine requirements, deficiency, losses, RDAs UNIT-II 3. A critical review of the following: • Vitamin requirements — Water soluble vitamins — thiamin, riboflavin, niacin, pyridoxine, folic acid, Vitamin B12, ascorbic acid-Functions, sources, requirements, deficiency, stability during processing • Fat soluble vitamins — vitamin A and vitamin D— significance, deficiency, dietary sources, requirements, role. 4. Dietary guidelines for Indians 5. Critical evaluation of International recommended dietary allowances — American, Canadian, FAO/WHO/UNU. 6. Nutrition requirements for special conditions • Natural calamities and emergencies—floods, carthquakes, famine/drought • Gastronautics • High altitude • Extreme emvronmental temperatures-hot and cold UNIT-IIII 7. Evaluation of protein quality • Analytical methods for the determination of nitrogen and amino acids in foods, • Evaluation of protein quality of foods from their amino acids content • Biological methods • Clinical methods • Biochemical methods • Relationship of stress and physiological state to the biological evaluation of protein quality. Publication II00, National Academy of Sciences, National Research Council, Washington, DC, 1963. 2. Nutritional evaluation of protein foods. PL Pellet and VR Young, The United Nations University, 1980. 3. Raghuramulu N, Madhvan Nair K and Kalyansundaram S. A laboratory of manual techniques, NIN &	! '		
adults, protein energy ratio Lipid requirements - functions of fatty acids, recommendations of dietary fat, RDAs for Indians, sources of fat, recommended intakes, quality of fat. Dietary fibre – nutritional and health significance, requirements Mineral requirements - calcium, phosphorus, magnesium sodium, potassium, iron and zinc- Dietary requirements for different physiological ages and states. Methods for estimating requirements, dietary deficiency, biochemical functions, stores, sources, Trace elements requirements – iodine requirements, deficiency, losses, RDAs UNIT-II 3. A critical review of the following: Vitamin requirements – Water soluble vitamins – thiamin, riboflavin, niacin, pyridoxine, folic acid, Vitamin B12, ascorbic acid-Functions, sources, requirements, deficiency, stability during processing Fat soluble vitamins – vitamin A and vitamin D– significance, deficiency, dietary sources, requirements, role. Dietary guidelines for Indians Cranadian, FAO/WHO/UNU. Nutrition requirements for special conditions Natural calamities and emergencies –floods, earthquakes, famine/drought Gastronautics High altitude Extreme environmental temperatures-hot and cold UNIT-III 7. Evaluation of protein quality of foods from their amino acids in foods. Evaluation of protein quality of foods from their amino acids content Biological methods Clinical methods Relationship of stress and physiological state to the biological evaluation of protein quality. References: 1. Evaluation of protein quality. Publication 1100, National Academy of Sciences, National Research Council, Washington, DC, 1963. Nutritional evaluation of protein foods. PL Pellet and VR Young, The United Nations University, 1980. Regarrandum, N. Madhvan Nair K and Kalyansundaram S. A laboratory of manual techniques, NIN & ICMR Hyderabad, 2003. Saghuramulu N, Madhvan Nair K and Kalyansundaram S. A laboratory of manual techniques, NIN & ICMR Byderabad, 2003. Soodhart and Shills ME. Modern Nutrition in Health and Disease, Henry Kimpto		· · · · · · · · · · · · · · · · · · ·	
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References: 1. Evaluation of protein quality. Publication 1100, National Academy of Sciences, National Research Council, Washington, DC, 1963. 2. Nutritional evaluation of protein foods. PL Pellet and VR Young, The United Nations University, 1980. 3. Raghuramulu N, Madhvan Nair K and Kalyansundaram S. A laboratory of manual techniques, NIN & ICMR Hyderabad, 2003. 4. Swaminathan M. Essentials of Foods and Nutrition, The Bangalore Printing & Publishing Co. Ltd. II ed., 2008. 5. Goodhart and Shills ME. Modern Nutrition in Health and Disease, Henry Kimpton Publishers, USA, 1974. 6. Pike RL and Brown ML. Nutrition an Integrated Approach, John Wily and Sons, NewYork,		Relationship of stress and physiological state to the biological evaluation of protein	
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- Energy and protein requirements. Report of Joint FAO/WHO/UNU Experts Consultation, Technical Report Series of No. 724, WHO, Geneva, 1985. 8. Anonymous, Nutrient Requirements and Recommended Dietary Allowances for Indians, ICMR, Hyderabad, 2010. 9. Human energy requirements. Report of Joint FAO/WHO/UNU Expert Consultation, FAO Technical Report Series No. 1, WHO, Geneva, 2004. 10. Protein and amino acid requirements in human nutrition. Report of Joint FAO/WHO/UNU Expert Consultation, Technical Report Series No. 935, WHO, Geneva, 2007. 11. Word Review of Nutrition and Dietetics, Vol. 32, Kargel, Basel, 1978. 12. Vitamin and Mineral Requirements in Human Nutrition, Report of Joint FAO/WHO Expert Consultation on Human vitamin and mineral requirements. WHO, Geneva, 2004. 13. Indicators for Assessing Vitamin A Deficiency and their Application in Monitoring and Evaluating Intervention Programme. Micronutrient series. WHO/NUT/96.10. WHO, Geneva, HUMAN PHYSIOLOGY (THEORY) Paper Code: FHN 105 Max. Marks: 100 Teaching Hours: 4 Hours/Weeks Total Teaching workload: 48 Hours /Semester Objectives: 1. To familiarize the students with the basic anatomy of human body.
- 2. To enable the students to understand the physiological processes. Contents: UNIT-I Hours Cell structure and functions- levels of cellular organizations and functions-organelles, nucleus, cytoplasm, tissues and systems. Functions of lysosomes, endoplasmic reticulum, golgi apparatus and mitochondria, Mitosis. Structure of cell membrane, active and passive transport of nutrients and metabolites, intercellular communications. Endocrine system: structure, function, storage, secretion, regulation of hormonal secretion. 8 Digestive System: Structure and function of various organs of gastro-intestinal tract, secretory, digestive and absorptive functions. Role of liver, pancreas, gall bladder and their dysfunction. Motility and hormones of the GIT. UNIT- II Respiratory System: Structure, function, mechanism of respiration-Pulmonary ventilation, Role of lungs in the exchange of gases. Transport of oxygen and CO2 in the lungs, blood and tissues. Role of hemoglobin and buffer systems. Regulation of respiration. 4. Circulatory System: Structure and function of the heart and blood vessels. Regulation of 5 cardiac output, cardiac cycle, blood-pressure and factors affecting it. 5. Excretory System: Anatomy and physiology of kidneys, structure and functions of nephron. 6 Urine formation. Normal and abnormal constituents of urine. Role of kidney in maintaining pH of blood, water, electrolytes, acid-base balance, diuretics. UNIT-III Physiological functions of Pituitary, Thyroid, Parathyroid, Adrenal and Reproductive 5 Hormones. Regulation of body temperature: Thermo genesis, thermolysis, pyrexia, hypothermia, role of 2 skin in maintaining body temperature. Musculo-skeletal system: structure and functions of bone, cartilage and connective tissue and

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muscle fibres. Disorder of the skeletal system. Types of muscles, structure and function

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8. Changes in muscle and bone mass during ageing and disease. Major muscles used for voluntary and involuntary actions.

9. Exercise physiology

References:

1. Guyton AC and Hall JB. Textbook of Medical Physiology 9th Edition, W.B. Saunders, Prime Books (Pvt) Ltd Banglore, 1996.

2. Wilson KJW and Waugh A. Ross and Wilson Anatomy and Physiology in Health and Illness 8th

Edition, Churchill Livingstone, 1996.

3. Chatterjee CC. Human Physiology Volume I and II, 11th Editon, Medical Allied agency Calcutta, 1992

4. Kale CA and Neil F Samean. Wright's Applied Physiology, 1974.

5. Griffith's M. An introduction to Human Physiology, MacMillian and Co., 1972.

6. Mc Ardle WD, Katch FI and Katch VL. Exercise physiology, energy nutrition and human performance 4th Edition, Williams and Williams, Baltimore, 1996.

7. Jain AK: Textbook of Physiology, Volume I and II, Avichal publisher Co., New Delhi, 2012.

NUTRITIONAL BIOCHEMISTRY – I (PRACTICAL)

Paper Code: FHN 111 Max. Marks: 100

Teaching Hours: 2 Practicals / Week(3 hours/Practical)
Total Teaching Workload: 24 Practicals/ Semester

Objectives:

1. To demonstrate the need for careful planning and organization of laboratory work and skilful execution of practical/experiments.

2. To develop an understanding of the principles of various biochemical techniques.

3. To develop competence in biochemical estimations.

4. To apply the knowledge acquired from the biochemical estimation to human nutrition.

Contents:	Practicals
1. Principles in biochemistry – Introduction to working principles of:	1/2
Spectrophotometry	
Chromatography	
Electrophoresis	1
Acid base titration, redox titration	
2. Cleaning of glassware with soap, chromic acid and distilled water	2
3. Titrimetric estimations	6
 Determination of strength of acids and bases (single and double titration) 	1 1
Oxidation reduction titration - by KMnO ₄	[
Estimation of vitamin C in lemon juice or any other fresh food stuff.	1 1
4. Preparation of buffers and measurements of their pH with indicators and pH meter	
5. Estimation of Protein by Kjeldahl's Method.	3 5
6. Colorimetric estimations (in unknown solution)	6
Glucose	
Cholesterol	1 1
FOOD SCIENCE AND QUALITY CONTROL (PRACTICAL)	

Paper Code: FHN 112 Max. Marks: 100

Teaching Hours: 2 Practicals / Week (3Hours/Practical)

Total Teaching Workload: 24 Practicals/Week

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Objectives:

- 1. To develop an understanding of the principles of various techniques of nutritional assessment.
- 2. To develop competence in recording and interpretation of anthropometric measurements.
- 3. To develop skills in conducting dietary surveys and data interpretation.

4. To develop understanding and skills in clinical observation.

Contents:	racticals
1. Physical examination of various food grains.	1
2. Detection of adulteration: Milk, turmeric powder, pure ghee, wheat flour, khoa.	2
3. Determination of the Moisture content in two raw and two processed foods.	2
Determination of the acid insoluble ash in two raw and two processed foods,	2
5. Determination of the Court of the content in two news and two managed for the	3
6. Determination of the Crude fibre content in two raw and two processed foods. 7. Determination of the Protein Content in two raw and two processed foods using kjeldahl method.	3
8. Determination of fat content in two raw and two processed foods.	1
9. Determination of the Taste Threshold for the Different Sensations – sweet, Salty, Sour.	1
10. Survey of convenience and ready to eat foods available in markets food list with nutrition, composition and food label.	1
11. Systematic development of a new food product and its standardization within the BIS	5
stipulated food standards and regulation and evaluate quality parameters for acceptability,	
labelling and cost of the finished product.	
Visit to small scale food product unit	

HUMAN NUTRITIONAL REQUIREMENTS (PRACTICAL)

Paper Code: FHN 113

Max. Marks: 100

Teaching Hours: 2 Practicals/Week

Total Teaching Workload: 24 Practicals/Semester

Objectives:

- 1. To calculate requirements of energy, protein, minerals and vitamins for different age groups
- 2. To compare intakes with the RDAs

3. To evaluate protein quality by using different methods

Conte	ents:	Practicals
1.	Energy requirements	
	Calculation of BMR using different methods- 3 sets of data	2
	Calculation of energy requirement for	3
	Reference man and woman	
	 Adults of different body weights and age categories 	į
	Children of different ages	
	Adolescents of different ages	
	 Pregnant woman 	
	 lactating woman 	
	Energy balance study for one week.	1
	Calculation of energy requirement by indirect calorimetry	1
2.	Protein requirements	
	Calculation of protein allowances for	
	 Children of different ages 	2
	 Adolescents of different ages 	

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	■ Pregnant woman	
•	a lactating woman	
3.	Lipids	
	• Determination of the types of fat and fat composition of the diets through 24 hour recall and compare it with suggested values for SFA, PUFA, MUFA and Essential fatty acids.	1
	 Calculation of dietary fatty acids according to FAO/WHO recommendations for Adult man and woman Pregnant and lactating woman 	5
	 Children of different ages 	
	 Adolescents of different ages 	
4.	Fibre	1
	Determination of dietary fibre through 24 hour recall and comparison with suggested values for fibre	1
5.	Minerals	
	Estimation of calcium requirement through factorial approach	1
	Estimation of iron requirement during pregnancy	
	Research design for calcium and iron balance	1
6.	Vitamins	2
	Determination of Vitamin C requirement using load test	
7.	Evaluation of protein quality	1
	Calculation of chemical score of different foods and food products.	
	Calculation of NDpCal% of	1
	A snack meal	1
	 A mix for PDS system. 	
	• Research design for evaluation of protein quality by biological and clinical methods.	1
	HUMAN PHYSIOLOGY (PRACTICAL)	
ape	r Code: FHN114	1
_	Marks: 100	
eacl	hing Hours :2 Practicals /Week	
otal	Teaching Workload:24 Practicals /Semester	
	ctives:	
1	.To make students understand the various Biochemical techniques used in for diagnosis of disease	ise
	To make students understand test of fitness.	
ont	ents:	ticals
1.	Use of Respirometer to estimate respiratory quotient visit for demonstration	5
	Calculation of values for different age groups and ages	
	Adults	
	• Athletes	
2.	Children & adolescents	2
3.	Estimation of hemoglobin by two techniques to be used in	1
	• field	
	• laboratory	
4.		2
5.		5
	Conditions required for measurement	İ
	Measurement of different age groups	
	Tests to measure physical fitness-	١ا

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~~~~	Fitness test	
	Physical efficiency Index	
	Recovery Time	
7.	Urine Estimations	1
	Albumin in urine	1
	Glucose in urine	
	Acid base balance in urine	2
8.	Measurement of body temperature.	
	Mechanism for control of body temperature	
	Management of hypothermia and pyrexia.	
	Measurement of bone mineral density	
	Principle of bone densitometer	
• .	Visit to DEXA	
9.	Case study of endocrine disorder patient	2
<u> </u>	SEMESTER -II	
	STATISTICS (THEORY)	
Pape	r Code: FHN201	
-	. Marks: 100	
Teac	hing Hours: 4 Hours/Week	
Take	l Teaching Workload: 48 Hours/Semester	
Obje	ctives:	
Obje 1. 2. Cont	ctives: To understand the basic concepts of statistics. To enable the students to understand various types of statistical tools and their interpretation ents:	
Obje 1. 2. Cont UNI	ctives: To understand the basic concepts of statistics. To enable the students to understand various types of statistical tools and their interpretation ents:  I - I	Hours
Obje 1. 2. Cont UNIT	ctives:  To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  Γ-I  Meaning and scope of Statistics.	Hours
Obje 1. 2. Cont UNIT	ctives:  To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I -I  Meaning and scope of Statistics.  Classification and Tabulation.	Hours 1 2
Obje 1. 2. Cont UNIT	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I -I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and	Hours
Obje 1. 2. Cont UNIT 1. 2. 3.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  Γ-I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).	Hours 1 2 7
Obje 1. 2. Cont UNIT 1. 2.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I -I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bar-	Hours 1 2
Obje 1. 2. Cont UNIT 1. 2. 3. 4.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I -I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).	Hours 1 2 7
Obje 1. 2. Cont UNIT 1. 2. 3. 4.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  Γ-I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).	Hours  1 2 7 6
Obje 1. 2. Cont UNIT 1. 2. 3. 4.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I - I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I - II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition.	Hours 1 2 7
Obje 1. 2. Cont UNIT 1. 2. 3. 4.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I -I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I -II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison,	Hours  1 2 7 6
Obje 1. 2. Cont UNIT 1. 2. 3. 4.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I - I  Meaning and scope of Statistics. Classification and Tabulation. Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation). Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I - II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal	Hours  1 2 7 6
Obje 1. 2. Cont UNIT 1. 2. 3. 4. UNIT 5.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I-I  Meaning and scope of Statistics. Classification and Tabulation. Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation). Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I-II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables).	Hours  1 2 7 6
Obje 1. 2. Cont UNIT 1. 2. 3. 4.	ctives:  To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  Γ-I  Meaning and scope of Statistics. Classification and Tabulation. Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  Γ-II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables). Elements of testing a Statistical Hypothesis- Formulation of the problem, Definition of	Hours  1 2 7 6
Obje 1. 2. Cont UNIT 1. 2. 3. 4. UNIT 5.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I-I  Meaning and scope of Statistics. Classification and Tabulation. Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation). Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I-II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables).	Hours  1 2 7 6 7
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Obje 1. 2. Cont UNIT 1. 2. 3. 4. UNIT 5.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I - I  Meaning and scope of Statistics. Classification and Tabulation. Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation). Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I - II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables). Elements of testing a Statistical Hypothesis- Formulation of the problem, Definition of typeI and II errors. Level of Significance, t-test, Z-test. Design of Experiment: Analysis of Variance	Hours  1 2 7 6 7 6 3
Obje 1. 2. Cont UNIT 1. 2. 3. 4. UNIT 5.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I - I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I - II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition.  Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables).  Elements of testing a Statistical Hypothesis- Formulation of the problem, Definition of typeI and II errors. Level of Significance, t-test, Z-test.  Design of Experiment: Analysis of Variance  T-III  Correlation and Regression: Correlation and its interpretation. Product moment and Rank	Hours  1 2 7 6 7
Obje 1. 2. Cont UNIT 1. 2. 3. 4. UNIT 5.	To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I - I  Meaning and scope of Statistics. Classification and Tabulation. Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation). Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I - II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables). Elements of testing a Statistical Hypothesis- Formulation of the problem, Definition of typeI and II errors. Level of Significance, t-test, Z-test. Design of Experiment: Analysis of Variance	Hours  1 2 7 6 7 6 3
Obje 1. 2. Cont UNIT 1. 2. 3. 4. UNIT 5.	ctives:  To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I — I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I—II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition.  Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables).  Elements of testing a Statistical Hypothesis- Formulation of the problem, Definition of typel and II errors. Level of Significance, t-test, Z-test.  Design of Experiment: Analysis of Variance  —III  Correlation and Regression: Correlation and its interpretation. Product moment and Rank order. Correlation Coefficient Regression Equations (without derivation)and its interpretations, use of prediction.  Non-parametric Inference: Sign, Mann Whitney and Chi square test (as goodness of fit and	Hours  1 2 7 6 7 6 3
Obje 1. 2. Cont UNIT 1. 2. 3. 4. UNIT 5.	ctives:  To understand the basic concepts of statistics.  To enable the students to understand various types of statistical tools and their interpretation ents:  I — I  Meaning and scope of Statistics.  Classification and Tabulation.  Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and Standard Deviation).  Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bardiagram and Pie charts).  I—II  Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition.  Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables).  Elements of testing a Statistical Hypothesis- Formulation of the problem, Definition of typel and II errors. Level of Significance, t-test, Z-test.  Design of Experiment: Analysis of Variance  —III  Correlation and Regression: Correlation and its interpretation. Product moment and Rank order. Correlation Coefficient Regression Equations (without derivation) and its interpretations, use of prediction.	Hours  1 2 7 6 7 8

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- 5. Good CV and Carter DE. Methods of Research-Educational Psychological Application, Century Craft, New York 1954.
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#### NUTRITIONAL BIOCHEMISTRY - II (THEORY)

Paper Code: FHN 202 Max. Marks: 100

Teaching Hours: 4 Hours / Week

Total Teaching Workload: 48 Hours/ Semester

#### Objectives:

- 1. To understand the basic nature and role of biomolecules.
- 2. To understand the mechanisms adopted by the human body for regulation of metabolic pathways.
- 3. To get an insight into interrelationships between various metabolic pathways.
- To link metabolic events occurring at the cellular level.

Cont	ents:	
UNI	r- I	Hours
1.	Vitamins: Chemistry and biochemical role of	8
	Water soluble vitamins: B-Complex and C	1.
	Fat soluble vitamins: A,D,E and K	
2.	Minerals: Biochemical role of minerals - Na, K, Cl, Ca, P, S, Fe, Mg, Mn, Cu, Zn, Se, Fe,	8
	Mo	·
UNI	[-II	
3.	Enzymes: Classification, co-enzymes, methods of isolation, purification and	9
	characterization, theories and mechanism of enzyme action, factors affecting reaction of	
	enzyme - effect of time, temperature, pH, substrate, enzyme activator and inhibitor (types	
	of inhibitor), Km - it's derivation and significance, elements of thermodynamics,	1
	enthalpy, entropy and free energy, active site and specificity of enzymes.	1
4.	Organ interrelationship in the metabolism	7
	Transport between organs – blood.	ļ
	The liver and its function in distribution of nutrients	
	Adipose tissue	
	Skeletal muscles	
	The brain	l

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- X
- The heart
- Diabetes mellitus
- Metabolic interplay in cancer

#### UNIT-III

5. Intermediary metabolism and it's regulation

16

- Carbohydrates Glycolysis, TCA cycle, respiratory chain, high energy link, biological redox potential, Gluconeogensis, hexose monophosphate shunt.
- Lipids α, β and ω oxidation of fatty acids, β oxidation of odd and even number fatty acids, synthesis of fatty acids, phosphatidic acid, ketosis, synthesis of cholesterol.
- Nucleotides and Nucleic Acids separation and determination of nucleotides and nucleic acids.
- Proteins absorption and conversion of amino acids, nitrogen fixation, degradation of ammonia and removal of amino acids through deamination, transamination, decarboxylation and urea cycle.

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- Martin DW, Mayes PA and Rodwell VW. Harper's Review of Biochemistry. 19th Edition. LANGE Medical Publications, MARUZEN Asia, 1983.
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- 3. Oser BL. Hawk's Physiological Chemistry. 14th Edition. McGraw Hill Book co., New York, 1965.
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#### FOOD MICROBIOLOGY AND FOOD SAFETY(THEORY)

Paper code: FHN 203 Max. Marks: 100

Teaching Hours: 4 Hours/Week

Total Teaching Workload: 48 Hours/Semester

#### Objectives:

1. To understand the role of micro-organism in food, food spoilage and to understand advanced techniques of food preservation.

2. To learn about food-borne infections and intoxication.

3. To understand the criteria for microbiological safety in various food operations to avoid public

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	health hazards due to food contamination.	
4.	To be able to understand the food legislation Acts and Standards operating in India.	
Conte		
UNIT		Hours
1.	History and development of food microbiology	2
2.	Micro-organisms of importance in food-bacteria, mold and yeast. Classification, morphology	4
	and physiology.	
3.	Factors affecting growth of micro-organisms- pH, moisture, oxidation reduction potential,	4
	nutrients, temperature.	
4.	Principles of preservation	6
1	General principles of food preservation: asepsis, removal, anaerobic conditions	,
(	Preservation by use of	1
ł	drying,	l
l	low temperatures	
l	high temperatures	<b>+</b> *
}	irradiation	1
	food additives	
UNIT		
5.	Contamination, preservation, and spoilage of different kinds of foods	
	Cereals and it's products	6
	Sugar and it's products	
	Vegetables and fruits	
	• Eggs	į
,	Milk and it's products	İ
ł	Canned foods	10
	Role of Microbes in health and disease	10
6.	Probiotics - Introduction to probiotics, Overview of gut environment, types of	1
	probiotics, mechanism of action, health benefits, prebiotics	1
	Public health Hazards and Food borne illnesses due to microbial contamination	l
ļ	Causes, food association, habitat, toxins, disease and symptoms, prevention of the	ł
<u> </u>	following -	ļ
ł	Food borne intoxications	1
	Botulism	ľ
	Staphylococci	1
}	Mycotoxicosis	
	Food borne infections	1
•	Salmonella	I
	E. Coli	1
	Clostridium	1
UNIT	<u></u>	
7.	Food Safety requirements for different food service establishments and safety measures	10
	(a) Definition of food safety, regulatory agencies, WHO & FAO	
	(b) Food Safety regulations and laws in India	
	i. Food Safety and Standards Act 2006	
	ii. Food safety and Regulations 2011	
	iii. Prevention of Food Adulteration (4th Amendment) Rules, 2011	
	(c) Food security assurance systems  Good Hygienic Protices (GUP)	
L	i. Good Hygienic Practices (GHP)	

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- to 1		
-	ii. Good Manufacturing Practices (GMP)	
	iii. Food Safety Management Systems- HACCP	
	iv. Food Safety Management System- ISO 22000	1 .
	v. Quality Management System- ISO 9001	}
	Microbiology of Fermented foods.	1
8.	Vinegar, cheese, beer	4
	Indian fermented foods- idli, dosa, vada, curd	•
	Single cell proteins (SCP)	
9.	Introduction to single cell proteins, types of single cell proteins, production of SCP,	2
	advantages & disadvantages.	

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- 4. Jay MJ, Loessner MJ and David GA. Modern Food Microbiology. Food Science Text Series, VII ed., 2005
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HUMAN NUTRITIONAL PROBLEMS (THEORY)

Paper Code: FHN 204 Max. Marks: 100

Teaching Hours: 4 Hours/Week

Total Teaching Workload: 48 Hours/Semester

Objectives:

1. To create understanding about nutritional assessement techiques aplicable for individuals and

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community. To create understanding of various nutritional problems. To create understanding about various inborn errors of metabolism and their dietary management. Contents: UNIT I Prevalence, etiology, biochemical and clinical manifestations, diagnostic technique, preventive and therapeutic measures for the following nutritional problems: Protein Energy malnutrition 3 Vitamin A deficiency 3 Anaemia 2 Iodine Deficiency Disorders 1 Fluorosis 1 Rickets, osteomalacia and osteoporosis 1 Beriberi 1 Pellagra 1 1. Scurvy 1 Zinc Deficiency UNIT II Assessment of Nutritional Status, Various techniques for assessment of nutritional status: Anthropometric measurements: Definition, measurements, tools/instruments. 4 Technique for measurements, standards for references, indices, classification, interpretation of data. Use of anthropometry for on time assessment, growth monitoring and emergency situation. Biochemical estimations for diagnosis of protein energy malnutrition, vitamin A deficiency, anaemia, iodine deficiency disorders, fluorosis: Parameters, techniques for estimation, reference value 3 Clinical examination 4 Dietary survey 1 Vital statistics **UNIT III** Introduction to causative factors, biochemical and clinical manifestation, treatment and therapeutic measures of following Inborn errors of metabolism: Disorders of amino acid metabolism i.e. Phenylketonuria, hypertyrosinaemia, 8 hypervalaemia, hyperhistidinaemia, hyper lysinaemia, homocystinuria. Carbohydrate metabolism i.e.Pentosuria, galacetosae 2 Lipid metabolism i.e. Hyper chylomicronaemia, pure hypercholesterolaemia 2 Food Safety and contamination 4 Naturally occurring toxins and antinutritional factors: Lathyrism, Epidemic dropsy. References: 1. Shaila CV. Public Health Nutrition in Developing Countries Pt 1 and 2. Published by Wood head publishing India PVT LTD, New Delhi. Cambridge, Oxford, Philadelphea, 2010. Sehgal S and Raghuvanshi Rita S. Textbook of Community Nutrition, Indian Council of

Agricultural Research, Published by: Directorate of Information and Publication of Agricuture, Indian Council of Agriculture Reserach, Krishi Anusandhan Bhavan, Pusa, New Delhi, 2011.

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  - 16. Textbook of Biochemistry and Human Biology Edited by G.P. Talear, Prentice Hall of India Pvt. Ltd., New Delhi, 1980.

#### FOOD PROCESSING (THEORY)

Paper Code: FHN 205 Max. Marks:100

Teaching Hours :4Hours/Weeks

Total Teaching Workload: 48 Hours/Semester

#### Objectives:

- 1. To impart systematic knowledge of basic and applied aspects in food processing and technology
- 2. To enable the students to understand food composition and its physico- chemical, nutritional and sensory aspects.
- 3. To gain in depth knowledge about processing and preservation techniques of cereals, pulses, oilseeds, meat and their products
- 4. To optimise process parameter for consistent quality processed food products

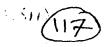
Cont UNI	tents: Γ-I	Hours
1.	Brief introduction of Cereals and legumes	2
2.	Milling process: Complete milling process, types of milling processes: break rolls, reduction rolls, milled products and their nutritive values and applications.  Baking technology: bread, biscuits /cookies and cake, principles of baking, Ingredients and their functions, methods of preparation, in process control, faults, causes and remedies, methods of leavening: physical, biological and chemical, scoring of quality parameters.	4

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3.	Breakfast cereals: wheat, oat, rice and corn.	<b>45</b>
4.	Legume technology: general composition and processing: decortications, germination,	1
5.	fermentation, agglomeration and effect of cooking.	2
6.	Soyabean: defatted flour, milk and isolated protein	1
UNIT		<del></del>
7.	Dairy and Flesh Food Technology	4
8.	Milk: composition, factors affecting milk quality, physical and chemical properties and its	6
•	processing: clarification, Separation, centrifugal process, natural creaming, pasteurization,	1
	sterilization, homogenization, effect of processing on nutritive value.	
	Milk Products: milk powder, Khoa, Cottage cheese, butter, butter oil, margarine, cheese, ice	1.
	cream-commercial processing, BIS Standards, Packaging and distribution.	
9.	Meat: slaughtering and related practices, pre slaughter handling, grading, ageing, curing,	
7.	smoking and tenderizing of meat, meat pigments and color changes, cooking, storage,	4
		1137
	methods of preservation for value addition and spoilage. Sausages and table ready meat	1.31
10.	products.	
10.	Poultry: Production consideration, processing plant operation (slaughter and bleeding,	}
	scalding, de-feathering, eviscerating, chilling and packaging), cooking, tenderness, flavor and	2
	color changes.	-
11.	Eggs: Structure, quality factors, storage, bacterial infection and pasteurization, freezing,	2
	drying and egg substitutes.	
12.	Fish: Types of fishes, onboard handling and preservation, drying and dehydration, salt	2
	curing, smoking, marinades, fermented products, canning, Modified Atmosphere Packaging	
	and quality factors.	
T70.770		
LIND		
	Oilseeds, Fruits and Vegetable technology	2
14.	Production and processing methods of fats & oils, hydrogenation	2
	Fat and oil Products: Margarine shortenings and frying oils, Mayonnaise and salad dressings,	
	fat substitutes.	
15.	Ripening of fruits and Food spoilage	2
16.	Principles of fruits and vegetables preservation. Processing technologies: Freezing,	3 4
	dehydration/drying, blanching, canning, preserves: jam, jelly, marmalade, pickle, sauce,	**
1.77	squash, syrup, chutney.	2
	Processing and preservation for small scale industry with special reference of FPO 1955.	
	ences:	
1.	Herausgegeben VG, Fabriani C, Lintas S and Zahlr AT. Durum Wheat: Chemistry and Techno	~·
•	American Association of Cereal Chemists, Inc., St. Paul, Minnesota, USA, Vol 32, Issue 2, 198	89.
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3.	Stadelman WJ, Olson VM, Shemwell GA and Pasch A. Egg and Poultry -Meat Processing,	VCH
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<b>-</b>	2006. Samuel MA. Bakery Technology and Engineering, Pan-Tech International publishers, III ed., 1	990
	Pomeranz Y and Meloan CE. Food Analysis: Theory and Practice, Springer Publishers, New Y	
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- 12. Marriott NG, Gravani RB. Principles of Food Sanitation, Springer Publication, New York, Ved., 2006.
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#### COMPUTER APPLICATIONS (PRACTICAL)

Paper Code: FHN 211 Max. Marks: 100

Traching Hours: 1Practical /Week (3hours/Practical)
Total Teaching Workload: 12 Practicals/ Semester

#### Objectives:

- 1. To understand the basic fundaments of computer and role of computer in research application.
- 2. To enable the students to handle computer for the purpose of data communication and Internet browsing.
- 3. To enable the students to use MS office and basic concepts in SPSS

Conte	ents:	racticals
1.	Introduction	
	Classification of computers and computer memory.	1
	Types of software: Application and System software, Operating System and Types: Single	1
WI .	user, multiuser.	
2.	Data Communication and Networks	
	Data communication concept	1 1
	Internet, web-e-mails	1
	Search engines- Enterprises: e-communication and e-collaboration.	1
3.	MS Office and its Application	
	File handling in windows	1
	MS Word: Text formatting	1
	MS Excel: Features, various formula and functions	1
	MS Power Point: Creating presentation and adding effects	1
4.	Statistical Software for Social Sciences (SPSS)	
	Introduction to SPSS: Definition, objectives and features.	1
	Data analysis using SPSS: Data entry, creating variables, switching to data labels.	1
	Data analysis: frequencies, recording into different variables, cross tabulation and	1
	layers.	

#### References:

- 1. Sinha P and Sinha P. Computer fundamental, 6th edition, B.P.B. Publications, 2004.
- 2. Norton P. Introduction to Computers, TAT Mc Graw Hill, 2005.
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Taneubaum. Computer Network, Prentice Hall, New Delhi ,2003. NUTRITIONAL BIOCHEMISTRY - II (PRACTICAL) Paper Code: FHN 212 Max. Marks: 100 Teaching Hours: 2 Practicals / Week(3 Hours/Practical) Total Teaching Load: 24 Practicals /Semester Objectives: To demonstrate the need for careful planning and organization of laboratory work and skilful execution of practical/experiments. To develop an understanding of the principles of various biochemical techniques. To develop competence in biochemical estimations. To apply the knowledge acquired from the biochemical estimation to human nutrition. **Practicals** Contents: Titrimetric estimation: Determination of calcium in milk powder, CaCo3 solution. 7 Li 1. Colorimetric estimation (in unknown solution) 2. Determination of Iron in Ferrous Ammonium sulphate solution and in blood. 3 2 Determination of Haemoglobin in blood by colorimetric method. 3 Determination of phosphorus in milk and phosphorus solution by F.S. colorimetric method. 2 Determination of protein by Lowry/ Biuret method. 3. Enzymes assays 2 Determination of Alkaline phosphatase Enzyme. 2 Determination of Transaminase enzyme (GOT and GPT) 4 4. Paper Chromatographic separation of Amino Acids by Circular method Ascending and Descending methods FOOD MICROBIOLOGY AND FOOD SAFETY (PRACTICAL) Subject code: FHN213 Max. Mark:100 Teaching Hours: 2 Practicals/Week(3Hours/Practical) Total Teaching Workload:24 Practicals/Semester Objectives: 1. To understand the functioning of a microscope. To understand the technique of culturing and staining strategies. To learn the microbiology of foods. Contents: Practicals 1. Principles, use and maintenance of microscope. 2. Functioning and use of various microbiology laboratory equipments. 1 Preparation of Culture media: 3. 1 Preparation of General Purpose Media Preparation of Selective and Differential Medium Techniques of Culturing: 1

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7/2	Sub-culturing of a given culture	1	
5.	Pure Culture Techniques :		
	Isolation of Pure Culture of Bacteria by Streak Plate Method	1	
6.	Quantitative Techniques:		
	Estimation of Amount of Bacteria by Pour Plate Method		
	Quantitative Determination of Viable Microbes	1	
7.	Colony characteristics and staining techniques:		
	Preparation of culture media in the Laboratory and streaking		
8.	Observation of colony characteristics.	3	ı
9.	Staining Strategies in the Laboratory:	2	
	Preparation of bacterial smear		-
	Simple Staining of Bacterial Culture		
	Gram Staining of Bacterial Culture		1
	Negative staining of the given culture(s)		
10.	Microbiological Study of Water:	3	1
	Testing Quality of water using presumptive test	1	1
	Confirmation of the Presence of Coliform Bacteria in Positive Presumptive Test		1
	Performing the Complete Coliform Test		I
11.	Microbiological Analysis of Milk Sample:	2	
	Determination of the Quality of Milk sample by Methylene Blue Reduction Test		
	Detection of Number of Bacteria in Milk by Breed Count		-
12.	Microbiological Analysis of Food Samples: ice cream, butter, cheese, curd, fruits, juices etc.	2	
	Observation and Recording for these Exercises		
13.	Sampling and Analysis of Microbial Load on Food Contact Surfaces:	2	
	Assessing Sanitary Quality of Contact Surface by Swabbing Method		
	Analysis of Air of Processing Facility for Microbial Load		
14.	Field visits to concerned food plants.	2	:
	HUMAN NUTRITIONAL PROBLEMS (PRACTICAL)		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		

Paper Code: FHN 214 Max. Marks: 100

Teaching Hours: 2 Practicals / Week (3 Hours/Practical) Total Teaching Workload: 24 Practicals/ Semester

#### Objectives:

- 1. To develop an understanding of the principles of various techniques of nutritional assessment.
- To develop competence in recording and interpretation of anthropometric measurements.
- To develop skills in conducting dietary surveys and data interpretation.

  To develop understanding and skills in clinical observation.

Contents: Practi		
1.	Preparation of event calendar of past five years for assessment of age	1
2.	Assessment of nutritional status of infants using anthropometric measurements:	2
	Preparation of questionnaire, learn techniques of recording weight length and MUAC	

Data collection (at least 10 infants)

	, 120	. 4	•
_	Data interpretation using WHO Z scores and report	14	٦ -
	Data interpretation using WHO growth	{: '	-
,	Assessment of nutritional status of preschool children using anthropometric measurements:		
	Preparation of questionnaire, learn techniques of recording height and weight using	2	
•	bathroom weighting scale as well as Salter balance and MUAC	ľ	
	Data collection (at least 10 preschool children)		
	Data interpretation using WHO growth standards and report writing		.
	Assessment of nutritional status of school going children using anthropometric		-
	measurements:		
	Preparation of questionnaire, data collection (at least 10 children).	•	
	Data interpretation using WHO growth standards and report writing.	2	1
		·	
	Assessment of nutritional status of adolescent boys and girls using anthropometric	÷	
	measurements:		
	Preparation of questionnaire and data collection	2	
	Data interpretation using WHO growth standards and BMI for age and height for age	_	
	indices and report writing		
	Assessment of nutritional status of adults using anthropometric measurements:		
	Preparation of questionnaire, learning techniques of measuring waist		
	circumference and hip circumference and calculation of WHR		
	Data collection	2	1
	Determination of haemoglobin level in blood sample of any age group:		
	Assessment of nutritional anaemia among college going students using haemoglobin	ł	}
	estimation and clinical signs and symbols of anaemia:	!	ŀ
	Preparation of questionnaire, learn the techniques	1	
	Data collection (at least 10 students)	2	
	Data interpretation and report writing	4	l
	Assessment of food and nutrient availability of inmates of any hostel/ orphanage / old age		
	home etc using food inventory methods:	3	
	Preparation of questionnaire and learn the techniques	,	,
	Data collection on 1 st day of week	1	
	Data collection on 7 th day of week		
	Data interpretation and report writing	.	
	Assessment of food and nutrient intake using 24 hours dietary recall methods:		
	Preparation of questionnaire and learn the technique	4	
	Standardization of recipes, cups, spoons, glasses		
	1	-	
	Data collection, conversion of cooked foods into raw ingredients and food and     publicat coloulation, report writing.	1	
	nutrient calculation, report writing		•
	Assessment of food consumption pattern using diet history method:	2	
	Preparation of questionnaire, learn the technique  Proparation of questionnaire, learn the technique  Proparation of questionnaire, learn the technique		
	Data collection, interpretation of results and report writing	2	
•	Assessment of diet and nutrient intake using qualitative as well as quantitative food equency	1	
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	Assault Control of the Control of th	r (Aci	(机-11)
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6	questionnaire.	
13.	Visit to malnutrition treatment centres in hospital – Observation of clinical symptoms of	1
	PEM and other symptoms of a SAM child.	
14.	Planning and preparation of diets of in-patient admissions of severe acute malnutrition in	1
	children.	-

FOOD PROCESSING (PRACTICAL)

Paper Code: FHN 215 Max. Marks: 100

Teaching Hours: 2 Practicals/Week (3 Hours/Practical)

Total Teaching Load: 24 Practicals/Semester

#### Objectives:

- 1. To understand the raw materials analysis and their processing technology used in different products development.
- 2. To understand the processing technologies of different products and concept of product optimization
- 3. To impart systematic knowledge of basic and applied aspects in food processing and technology
- 4. To enable the student to understand food composition and its physico chemical, nutritional and sensory aspects.
- 5. To gain indepth knowledge about processing and preservation techniques of milk products technology and fruits and vegetables technology.

Conte	ents:	acticals	
1.	Cereal and Cereal Products Technology		
	(A)Bread baking		
,	a) Quality testing of different flour:	3	l
	Gluten quality and quantity		
	moisture and ash percent		ĺ
	Water Absorption Power (WAP)		
	Pekar color test		
	Maltose value		
	Falling Number		
	Dough Raising Capacity		
	b) Bread Processing: process optimization of	3	
	Straight dough method		
	<ul> <li>sponge and dough method (delayed salt method)</li> </ul>		
	<ul> <li>potassium bromate response of different flours</li> </ul>		
	<ul> <li>optimization of brown bread process</li> </ul>		
	<ul> <li>preparation of sweet buns</li> </ul>		
	<ul> <li>preparation of pizza base</li> </ul>	4	
	(B) Biscuits and cakes		
	<ul> <li>Preparation of short and hard dough biscuits and</li> </ul>		
	packaging and shelf life studies for 5 weeks		
	<ul> <li>Preparation of sponge and cream cakes</li> </ul>		
	packaging and shelf life studies for 5 weeks		
2.	Visit to milk processing industry	1	

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3.	Milk and milk products technology 2	*** 3
-	• Chemical analysis of milk and determination of its components like fat, SNF, protein TSS	
	Detection of preservatives in milk (boric acid and borate)	
}.	• Detection of adulterants in milk and analysis of cheese, paneer, khoa as per BIS standards	
	Tests to judge the efficiency of pasteurization and homogenization	
4.	Fruits and Vegetable Technology	1
	• Analysis of Proximate principles: Carbohydrate, sugars, ash, moisture, fat and protein.	
	• Experiment on control of enzyme activity, enzyme inactivation in fruits and vegetables	
•	• Preservation of fruits and vegetables using heat, salt and sugar and estimation of effect of	3
l	processing on nutrients and color:	
]	Processing of tomato products	1
	Processing of jams, jellies and marmalades	72
	Processing of pickles and brines	~ 2
	• Estimation of acidity, total solids of different foods - Squashes, syrups and juice. 1	
1	• Dehydration of fruits, and vegetables and shelf life studies: its effect on color, texture and	į
}	flavor. Rehydration ratio, rehydration coefficient 1	
	Preservation of fruits and vegetables using low temperature 1	
5.	Fat and oil technology	
]	• Fat absorbance,	•
	Degree of unsaturation	
	Peroxide value	2
1	Acid value	
,	Saponification value	
	SEMESTER III	

#### CLINICAL NUTRITION AND DIETETICS - I (THEORY) Paper Code: FHN 301 Max. Marks: 100 Teaching Hours :4 Hours/Weeks Total Teaching Workload: 48 Hours / Semester Objectives: 1. To give knowledge about the nutrition care process in hospitalized patients. 2. To give knowledge about the nutritional counselling process. 3. To enable the students to understand the special nutrition concerns and the dietary management of Gastrointestinal Diseases, Food Allergies, Liver and Pancreatic Diseases 4. To give practical insight for assessment, nutritional care and counselling to hospitalized children and elderly persons. 5. To give practical insight for assessment, nutritional care and counselling for Sports Persons Contents: UNIT-I Hours Nutrition Care Process in Hospitalized Patients 8

<ul> <li>Nutrition care process</li> <li>Methods of feeding (Enteral and Parenteral feeding)</li> <li>Interpretation of routine medical and laboratory</li> <li>Nutritional Assessment of hospitalized patients</li> <li>Methods of nutritional Process</li> <li>Assessment of Problem in food behaviours</li> <li>Stagesof Change</li> <li>Behaviour Change Communication.</li> <li>Nutritional care of hospitalized children</li> </ul>		2	
<ul> <li>Interpretation of routine medical and laboratory</li> <li>Nutritional Assessment of hospitalized patients</li> <li>Methods of nutritional Process</li> <li>Assessment of Problem in food behaviours</li> <li>Stagesof Change</li> <li>Behaviour Change Communication.</li> </ul>		2	
<ul> <li>Nutritional Assessment of hospitalized patients</li> <li>Methods of nutritional Process</li> <li>Assessment of Problem in food behaviours</li> <li>Stagesof Change</li> <li>Behaviour Change Communication.</li> </ul>	data	2	
<ul> <li>Methods of nutritional Process</li> <li>Assessment of Problem in food behaviours</li> <li>Stagesof Change</li> <li>Behaviour Change Communication.</li> </ul>		2	
<ul> <li>Assessment of Problem in food behaviours</li> <li>Stagesof Change</li> <li>Behaviour Change Communication.</li> </ul>		2	
<ul><li>Stagesof Change</li><li>Behaviour Change Communication.</li></ul>	•		
Behaviour Change Communication.		1	
			.
3. Nutritional care of hospitalised children		5	
Nutritional care of neonates			
Nutrient modifications and special feeding problem.	eme	1	
Nutritional care of Malnourished children	O1115		
JNIT-II			-
4. Geriatric Nutrition		2	-
• Ageing process,		4	
Nutritional and Medical problems of elderly	•		
Nutritional care and lifestyle modifications in elderly			
persons			
5. Classification, aetiology, clinical features, diagnosis, p	avovantian and distance		
management of Gastrointestinal Diseases	prevention and dietary	10	
• GERD,			
1		1 .	
Peptic Ulcer,	•	·	
• Constipation,	·		
• Diarrhoea,			
Celiac Disease,		,	
Irritable Bowel Disease,			
Ulcerative Colitis		·	
6. Classification, aetiology, clinical features, diagnosis, p	revention and dietary	7	
management of liver and pancreatic diseases	•	/ /	
Hepatitis,			
Liver Cirrhosis,			
Fatty Liver,			
Hepatic Coma,			
Pancreatitis			
NIT-III	·	L	
7. Food Allergies	· · · · · · · · · · · · · · · · · · ·	2	
Clinical features, diagnosis and management of Food Alle	rgy and food intolerance.	-	
8. Nutrition in health and fitness	OA	6	.
Interrelationship between health, nutrition, exercise	e and fitness		
Energy input and output	······································	.	
Effect of specific nutrients on work performance as	nd fitness		
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₹₹8.	Etiology, Public Health Implications, preventive/curative strategies for:	6
	- Chronic energy deficiency	
	- Protein energy malnutrition	
	- Micronutrient deficiency	
9.	Approaches/strategies for improving nutrition and health status of community:	14
	<ul> <li>Health based interventions including immunization, provision of safe drinking water, hygiene, prevention and management of diarrheal diseases.</li> </ul>	
	• Food based interventions including food fortification, dietary diversification, supplementary feeding and biotechnological approaches.	
10.	Education based interventions including growth monitoring and promotion, and nutrition health education	6

#### References:

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- 10. Jelliffee DS. The Assessment of Nutritional status of the community, WHO Geneva, 1966.
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#### INSTITUTIONAL FOOD ADMINISTRATION - I (THEORY)

Paper Code: FHN 303 Max. Marks: 100

Teaching Hours: 4 Hours / Week

Total Teaching Workload: 48 Hours/ Semester

Objectives:

This course will enable the students to understand:

1. The various aspects of food service planning

2. The management of food service organisations.

3. Developing in students the skill of menu planning for quantity and quality food preparation.

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Introduction to Foodservice systems Development of food services in Institutions. Consumer behaviour and eating trends- teenagers, family, business- corporate world. Food services facility planning – introduction to foodservice facilities planning, the planning process, the planning team, planning the prospectus, functional planning, planning the atmosphere, workplace design, equipment requirements (writing equipment specifications, purchasing, factors affecting equipment selection, type of equipments), space requirements, layout of facilities.  INIT-II  Toganization and Management Organization — definitions, nature and characteristics of organisation, theories of organisation, steps in process of organisation, principles of organisation, departmentation, types of organisations. Systems approach to Management process, roles of a manager, level and skills of management – definitions, management, tools of management, management of resources, functions of management. Financial Management – Key accounting concepts, basic financial statements, tools for comparison and analysis, budgeting, book keeping- principles of double entry, records. Energy management-energy utilisation, energy conservation, energy management systems Time management.  Food Management Food acceptability and sensory evaluation — definition, application, difference between organoleptic and sensory evaluation, qualification and types of panellists, testing area, methods of sensory testing.  Menu planning — importance of menu planning in food service organisation, types of menu and their application, factors affecting menu planning, steps in menu planning, quality food standards, standardised recipes. Food Porchasing — Market and the buyer, forecasting in foodservice, methods of purchasing, mode of purchasing (centralized and group purchasing), purchasing process and records, vendor selection and evaluation, food selection. Food production, methods of food production, production schedules, principles of food production, methods of food production,			
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UNIT-IIII Agriculture initiatives to improve food security The National Food Security Mission (NFSM) National Horticulture Mission Rashtriya Krishi Vikas Yojana Conditional cash transfer program Programs/Assistance targeted toward specific needy section of the population. 10 National Social Assistance Programme Annapurna Scheme Village Grain Bank Scheme National Programme for Adolescent Girls National programme of Nutritional support to Primary Education (Mid day meal programme) Integrated child development services (Scheme)

#### References:

- 1. Understanding the dynamics of Food Insecurity and Vulnerability in Himachal Pradesh, India. ESA Working Paper No 07-22. FAO, May 2007.
- 2. Food Security and Nutrition. Cambodian Food Security and Nutrition website. http://www.foodsecurity.gov.kh/CamSituation.aspx
- 3. Food Security, Policy Brief. Issue 2, FAO, June 2006.
- 4. The Food Insecurity Atlas of Rural India, Swaminathan Research Foundation (2001).
- 5. Understanding the Dynamics of Food Insecurity and Vulnerability in Orissa, India. ESA Working Paper No 07-28. FAO, October 2007 (22).
- 6. Climate Change, Water and Food Security. Technical Background Document From the Expert Consultation Held on 26 to 28 February 2008, FAO, Rome. ftp://ftp.fao.org/docrep/fao/meeting/013/ai783e.pdf. Accessed on 24-7-08.
- Climate Change: Impact on Agriculture and Costs of Adaptation, International Food Policy Research Institute (IFPRI), 2009 (26).
- 8. FS Atlas of Rural Rajasthan WFP/ Institute of HD, 2010.
- 9. Report on the state of FS in Rural Rajasthan WFP/MS Swaminathan Research Foundation, 2010.
- 10. Report on the state of FS in Urban India WFP/MS Swaminathan Research Foundation, 2010.

#### CLINICAL NUTRITION AND DIETETICS- I(PRACTICAL)

Paper Code: FHN 311 Max. Marks: 100

Teaching Hours: 2 Practicals/Week (3 Hours/Practical) Total Teaching Workload: 24 Practicals /Semester

#### Objectives:

- 1. To make students understand the nutritional assessment of hospitalized patients
- 2. To make students understand the nutritional management of patients suffering from gastrointestinal diseases, level, pancreatic diseases and food allergies
- To make students understand the nutritional management of sports persons.

Contents:

Practicals

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C/1.	Visit to ICU to see various methods of feeding	1
2.	Planning and preparation of diet for tube feeding	î
3.	Nutritional Assessment of hospitalized patients	1
4.	Visit to Paediatric Hospital to study the feeding of sick children	2
5.	Planning and preparation of diet for a sick child	
6.	Planning and preparation of diet for elderly persons	1
7.	Planning and preparation of diet for Celiac Disease	
8.	Planning and preparation of diet for Irritable Bowel Disease,	1
9.	Planning and preparation of diet for Malabsorption Syndrome	1.
10.	Planning and preparation of diet for Ulcerative Colitis	1
11.	Planning and preparation of diet for Hepatitis	1
12.	Planning and preparation of diet for Hepatic Coma	1
13.	Planning and preparation of diet for Liver Cirrhosis	1
14.	Planning and preparation of diet for Pancreatitis	Î
15.	Planning nutrition support for fatty liver	1
16.	Adaptation of traditional diets for healthy life style.	2
17.	Planning and preparation of snacks and drink suitable for various sports activities.	2
18.	Planning and preparation of diets for endurance activities	2
	. , ,	

#### PUBLIC HEALTH NUTRITION - 1 (PRACTICAL)

Paper Code: FHN 312 Max. Marks: 100

Teaching Hours: 2 Practicals/Week (3 Hours/Practical)

Total Practical Workload: 24 Practical / Semester

#### **Óbjectives**:

This course will enable the students to:

- 1. Gain insight into national nutritional problem, and national & international contribution towards nutrition improvement in India.
- 2. Development of skills in organizing and evaluating nutrition projects in the community.
- 3. To be familiar with various approaches to public health nutrition programs and policies.

Cont	ents:	Practicals
	Community work	
1.	Need for community analysis	3
2.	Techniques of data collection	2
3.	Conduct a community analysing	5
4.	Community diagnosis and identification of areas of Nutrition-Health Education	2
	Collection, analysis and presentation of literature:	
5.	Each student will collect a document on Maternal Child Nutrition referring the web-site: www.mhfw.org	
	Collection of document	1
	Reading, analysis and preparation of PPT on the collected document	3
	• Each student will prepare a leaflet/ chart on the content related to:	1 2

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,	a) Food security (b) water, hygiene and sanitation	120
6.	Planning and preparation of Low cost Nutritious recipes	1
	Planning of Recipes	1
	Preparation of vitamin 'A' / Beta carotene rich snack for young children	
	Preparation of Iron rich Snack for pregnant women/ Adolescent girls	1
7.	Skill development	
••	One practical class on skill development on any one area of Public Health Nutrition	2
	INSTITUTIONAL FOOD ADMINISTRATION -I (PRACTICAL)	
Paper	Code: FHN 313	
	Marks:100	
	ing Hours: 6 Hours / week	
	teaching workload: 24 Practicals/semester	
	tives:	
	To visit different food service institutions to gain an insight into the functioning of such un	its.
2.	To plan menus for different occasions/institutions	
3.		
Cont		Praeticals
1.	Carrying out market survey of perishable, non-perishable and processed foods for mea	6
	planning.	
2.	Planning and preparation of meals for various occasions giving general consideration, assumptions, organization chart, budget breakup, menu, cost calculations, comparison of actual and estimated costs and evaluation, for example:	
	Hostel mess	
	Railway canteen	
	Office canteen	
	College canteen	,
	Mid day meal	
	• Conference	40
3.	Visit to different institutes for eg:	12
	Girls' hostel	
	Railway canteen	
	• Office	j
	• College	
4	Akshaya patra	İ
4.	Quantity cookery classes for preparation of food items for eg: Coconut cookies, Samosas, Chole tikki, Masala idlies, Masoor dal pakories, Bhelpuri, Dahi wada, Chikki etc.	
5.	Term paper in any area of IFA.	
	SCIENTIFIC WRITING - I (PRACTICAL)	
	Code: FHN 314	1
	Marks:100	ļ
	ing Hours: 1 Practical/Week	
Total	Teaching Workload: 12Practicals/Semester	

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#### Objectives:

- 1. To be able to appreciate and understand the importance of writing scientifically.
- 2. To develop competence in writing and abstracting skills for different writing needs.

3. To develop the writing ability and to review different types of scientific writing.

Cor	itents:	Practicals
	Scientific writing as a means of communication and preparing for writing:	
1.	Different forms of scientific writing: Articles in journals, research notes and reports, review	1
	articles, monographs, dissertation, and bibliographies.	
2.	How to formulate outlines: The reasons for preparing outlines, kinds of outlines e.g., Topic	1
	outlines, conceptual outlines, theme outline.	1
3.	Filling in the outlines and preparing the framework. E.g., drafting titles and subtitles.	1
4.	Tables and illustration and systematic means of presenting data	1
	Titles, rows, columns, footnotes	
	Types of illustrations: graph, diagrams, flowcharts	
	The writing process and styles of writing:	
5.	Use of outlines as starting device.	1
6.	Making draft- improving the draft in relation to the objectives.	1
7.	Various styles of writing, consistency and other aspects.	1
8.	Types of scientific writing- reports, journal papers, abstract, monographs, dissertation, funding	g 1
ļ	etc.	
9.	Components of scientific writing-	2
ł	Introduction and Review of literature.	
1	Methodology, Results and discussion, summary and conclusions	
1	Limitations, bibliography and appendices	j
10.	Writing a research proposal for grants-justification, rationale and importance of the question	2
	being addressed, empirical and theoretical conceptualization, presenting pilot study/data,	
	research proposal and time frame, clarity, specificity of method, clear organization, outcome of	f
	the study and its implications, budgeting, available infrastructure and resources, executive	
L	summary etc.	

#### References:

- 1. APA, Publication manual of American Psychological Association, 3rd Edition, Washington, 1984.
- 2. Cooper HM. Integrating research, A guide for literature review, 2nd Edition, Sage publications, California, 1989.
- 3. Dunn FV. and others, Disseminating Research: Changing profile, Sage publications, 1994.

#### DISSERTATION I (PRACTICAL)

Paper Code: FHN 315 Maximum Marks:100

Teaching Hours: 3 Practical/Week (3 Hours/Practical)
Total Teaching Workload: 36Practicals/Semester

#### Objectives:

1. To enable students to make and present a plan for research.

- 2. To impart systematic and practical knowledge of research and its applied aspects.
- 3. To develop scientist quality in students.

Contents:

**Practicals** 

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Identification, analysis and selection of research problem and its relevance Collecting relevant review and research paper regarding to research proble	m	12
Synopsis writing and power point presentation	***	12
• Introduction	:	12
Rationale of the study		
Objectives		
Review If literature (minimum 20 literatures should be cited)		
Brief methodology		
Plan of action	.1	
Bibliography		

#### SEMESTER-IV

## CLINICAL NUTRITION AND DIETETICS II (THEORY) Paper Code: FHN 401 Max. Marks:100 Teaching Hours: 4 Hours/Week

Total Teaching Workload: 48 Hours / Semester Objectives:

1. To impart knowledge about significance and measurement of body composition.

2. To impart advanced knowledge to students about path physiology of various diseases.

3. To enable the students to understand the special nutrition concerns and the dietary management of neurological disorders, Cancer, AIDS, Surgery, Burns, Renal Disorders, Cardiovascular Diseases, Diabetes, Obesity and Eating disorders.

4. To give practical insight for assessment, nutritional care and counseling to patients.

Content:	<b>3:</b>	4
UNIT I		Hours
1.	Body Composition	8
	Body composition and cellular basis of growth	
	Significance and methods used for measurement of body composition in	
	nutrition.	1 1
	Application of body composition in nutrition	
	Cellular Growth and development during life cycle	1 . 1
2.	Nutritional Management of neurological disorders	4
	Classification and dietary management of	
	Stroke	
	Alzheimer's Disease	
	Epilepsy	
	Parkinson's Disease	2
3.	Nutrition and Cancer	1 2
	Role of nutrition in etiology of cancer	
	Nutritional effects of cancer and it's therapies	1
	Nutritional care of cancer patients	
UNIT II		
4.	Nutrition in Surgery and Burns	2
	Pre and post operative nutritional care	

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<b>b</b>	Nutrition support in burns	T
5	Nutrition in Renal Disorders:-	8
	Glomerulonephritis	
	Nephrotic Syndrome	
	Acute Renal Failure	
	Chronic Renal Failure	
6.	Pathophysiology, aetiology, clinical features prevention and dietary	8
	management of Cardiovascular Diseases:	
	Hypertension	
	Coronary Heart Disease	
	Hyperlipidemias	
UNIT I	II	
7.	Pathophysiology, aetiology, clinical features, prevention and dietary management	8
	of Diabetes mellitus	
	Type 1 Diabetes	
	Type 2 Diabetes	
8.	Pathophysiology, aetiology, clinical features, prevention and dietary management	
	of Obesity and Eating disorders	6
	Obesity	i
	Anorexia Nervosa	
	Bulimia Nervosa	
9.	Nutrition related problems and Support in Human Immuno Deficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS)	2

#### References:

- 1. Kathleen ML. and Sylvia Escott-Stump. Krause's Food, Nutrition & Diet Therapy .WB Saunders Company, Pennysylvania, USA (2004).
- 2. Bamji MS, Rao NP and Reddy VE Text Book if Human nutrition Second Edition.Oxford & IBH Publishing Co. Pvt. Ltd (2003).
- 3. Wardlaw Gordon M. And Kessel Margaret W. Perspectives in Nutrition. Fifth Edition. Mc Graw Hill Publications, Ohio, USA (2007).
- 4. Joshi YK. Basics of Clinical Nutrition. Second Edition. Jaypee Brothers medical Publishers (P) Ltd. New Delhi (2008).
- 5. Shils ME, Olson JA, Shike N and Roos. Modern Nutrition in Health and Disease, 8th Edition,Lea and Febiger, Philadelphia (1994).
- 6. Sue Rodwell Williams. m Essentials of Nutrition and Diet Therapy. Times Mirror/Mosby College Publishing. ISBN 10: 0801652626 / 0-8016-5262-6, ISBN 13: 9780801652622(1990).
- 7. Carol West Suitor and Merrily Forbes Crowley. Nutrition: Principles and Application in Health Promotion, Published by J. B. Lippincott, 1984, ISBN 10: 0397544243 / ISBN 13: 9780397544240 (1984).

#### PUBLIC HEALTH NUTRITION – II(THEORY)

Paper code :FHN 402 Max. Marks :100

Teaching Hours: 4 Hours/Weeks

Total Teaching Workload: 48 Hours/Semester

**Objectives:** 

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A550. Registrar (Acada University of Rujasthan (AIPLR This course will enable the students to: -4. Gain insight into national nutritional problem, and national & international contribution towards nutrition improvement in India. 5. Development of skills in organizing and evaluating nutrition projects in the community. 6. To be familiar with various approaches to public health nutrition programs and policies. Contents: UNIT I Programme planning and management in public health nutrition Hours Steps in programme planning / planning cycle 1. 5 Application of management methods and techniques in the health care delivery system **UNIT II** Programme Monitoring and Evaluation Definition, significance and purpose of monitoring nutrition programme 3. 4 Identification and selection of indicators for monitoring nutrition programmes 6 4. Definition, significance and purpose of evaluation nutrition programmes Identification and selection of indicators for evaluation 6 5. UNIT III Nutrition Communication Definition and need for nutrition - health education 6. Concept and objectives of communication for behavior change 3 7. 8. Designing nutrition - health education plan Characteristics of commonly used nutrition and health education materials, including 9. social marketing 3 Nutrition Surveillance Objectives, Purposes and indications used in nutrition surveillance 3 10. 3 Agencies for nutrition surveillance in India 11. References:

1. Shaila CV. Public Health Nutrition in Developing Countries Pt 1 and 2. Published by Wood head publishing India PVT LTD, New Delhi. Cambridge, Oxford, Philadelphea, 2010.

2. Sehgal S and Raghuvanshi Rita S. Textbook of Community Nutrition, Indian Council of Agricultural Research, Published by: Directorate of Information and Publication of Agriculture, Indian Council of Agriculture Reserach, Krishi Anusandhan Bhavan, Pusa, New Delhi, 2011.

3. Bami MS, Rao PN and Reddy V. Textbook of Human Nutrition, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, 1996.

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New Delhi, 1987. 12. Shukla PK. Nutritional problems of India, Prentice Hall of India Private Limited, New Delhi, 1982. 13. Beaton GH and Bengoa JM. Nutrition in preventive Medicine. The major deficiency syndrome Epidemiology and approaches to control, World Health Organization, Geneva, 1986. INSTITUTIONAL FOOD ADMINISTRATION - II (THEORY) Paper Code: FHN 403 Max. Marks: 100 Teaching Hours: 4 Hours / Week Total Teaching Workload: 48 Hours/ Semester Objectives: This course will enable the students to understand: 1. The aspects of food service management. 2. The management of personnel in smooth running of an organisation. 3. How to maintain a food service facility as a sanitary, safe and secure place Contents: **UNIT I** Hours 1. Food service Management 2 Food service systems-Conventional, Commissary, Ready Prepared and Assemble Delivery and service of food in different food service systems-Hospitals, Schools, 3 Industries, Airlines. 2 Types of service- Self, Tray, Waiter, Portable Meals. 3 Dining room management-furnishings and equipment for dining rooms UNIT II Personnel Management 2. Functions of personnel manager 2 3: Leadership - qualities and responsibilities of a leader, styles and theories of leadership, motivation, theories of motivation, philosophies of human nature-1 Human resource planning-human resource inventory, human resource forecasting, human resource development plans. 3 Employment process- recruitment, selection, orientation, training, development 2 Performance appraisal and MBO 1 Employee facilities and benefits 2 Labour Cost Control- factors affecting labour control, records for control. 3 Labour management relations- reasons why workers join unions, development of labour unions, structure of unions, union and contract negotiations Personnel functions-kitchen, dining room 2 Labour Laws affecting foods service operations. 1 UNIT III 3. Plant and equipment management 6 Maintenance of equipments and facilities- manual and mechanical warewashing, sanitary facilities and equipment, preventive maintenance, pest control Sanitation - principles of food sanitation, sanitation of food, personnel, physical plant and equipment, controlling microbial quality of food, food service sanitation, development of quality assurance (sanitation) programme.

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• Safety – Accident prevention, fire prevention, 3 Es of safety, safety and health programme, HACCP, Food Safety and Standards Act of India.

Security- management of security system, main security risks.

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#### CLINICAL NUTRITION AND DIETETICS-I (PRACTICAL)

Paper Code: FHN 411 Max. Marks: 100

Teaching Hours :2 Practical/Week (3 Hours/Practical)
Total Teaching Workload :24 Practical / Semester

#### **Objectives:**

- 1. To make students understand the nutritional management of patients suffering from renal diseases, coronary heart diseases etc.
- 2. To teach students how to plan nutritional support for patients suffering from cancer, Alzheimer's, epilepsy etc.

3. To make students familiar with hospital environment by visits.

Conte	ents:	Practical	s
1.	Planning nutrition support for epilepsy patient	1	
2.	Planning nutrition support for Alzheimers patient	1	
3.	Planning nutrition support for cancer patients	1	
4.	Planning and preparation of diet for Pre and post operative nutritional care	1	
5.	Planning nutrition support for Burns patient	1	
6.	Planning and preparation of diet for Glomerulonephritis	1	
7.	Planning and preparation of diet for Nephrotic Syndrome	1	
8.	Planning and preparation of diet for Chronic Renal Failure	2	
9.	Planning nutrition support for Atherosclerosis	1	
10.	Planning and preparation of diet for Hypertension	1	İ
11.	Planning and preparation of diet for Coronary Heart Disease	_ 1	

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<b>©</b> 12.	Planning nutrition support for Hyperlipidemias	1
13.	Planning and preparation of diet for Type 1 Diabetes	1
14.	Planning and preparation of diet for Type 2 Diabetes	1
15.	Planning and preparation of diet for Obesity	1
16.	Planning and preparation of diet for Overweight persons	1
17.	Planning nutrition support for anorexia nervosa	1
18.	Planning nutrition support for Bulimia nervosa	1
19	Planning nutrition support for AIDS patient	1
20.	Case study of two patients in hospital (patient profile, anthropometry, drugs prescribed,	4
	laboratory investigations, diet and follow up).	

PUBLIC HEALTH NUTRITION - II (PRACTICAL)

Paper Code: FHN 412 Max. Marks:100

Teaching Hours:2 Practicals/Week (3 Hours/Practical)
Total Teaching Workload:24 Practical Per Semester

#### Objectives:

This course will enable the students to:

- 1. Gain insight into national nutritional problem, and national & international contribution towards nutrition improvement in India.
- 2. Development of skills in organizing and evaluating nutrition projects in the community.

3. To be familiar with various approaches to public health nutrition programs and policies.

Conte	ents:	racticals
	Community work	
1.	Development of plan for Nutrition education program	2
2.	Preparation of communication / teaching aids	2
3.	Program implementation and Evaluation	8
	Collection, analysis and presentation of literature	
4.	Maternal and child Health:	
ļ	Each student will collect a document on Maternal child Health referring the web-	1
	site: www.mhfw.org	
	Collection of document	
	Reading, Analysis and preparation of PPT on the collected document	4
ļ	• Each student will prepare a leaflet/chart on the content related to:	
	(a) Food Security (b) Water, hygiene and Sanitation	
5.	Planning and preparation of low cost nutritious recipes	3
6.	Planning of recipes	1
7.	Preparation of energy and protein rich snack for severely malnourished children	1
8.	Preparation of recipe based on pre-mix provided at AWC	
	Skill development	1
9.	One practical class on skill development on any one area of Public Health Nutrition	1

#### References:

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2. Program Planning for Health Education and Promotion, by Mark B. Dagnam, Patricia, A. Carr, 1992, Published by Lea and Febiger, USA.

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#### INSTITUTIONAL FOOD ADMINISTRATION - II (PRACTICAL)

Paper Code: FHN 413 Max. Marks: 100

Teaching Hours: 2 Practicals / week

Total Teaching Workload: 24 Practicals/Semester

#### Objectives:

- 1. To visit different food service institutions to gain an insight into the functioning of such units.
- To plan menus for different occasions/institutions
- To cook certain food items in large quantities i.e., in 50-60 portions each.

Conte	ents:	Practicals
1.	Carrying out market survey of perishable, non-perishable and processed foods for meal	6
	planning.	
2.	Planning and preparation of meals for various occasions giving general consideration,	6
	assumptions, organization chart, budget breakup, menu, cost calculations, comparison of	1
	actual and estimated costs and evaluation:	1
	Theme party	}
	Special cuisine	
	Cocktail party	
	Hospital meal	
	Tea party after a lecture	
	International airlines	
	Country of your choice	
3.	Visit to different institutes for eg.	12
٥.	• Hotel	
	• School	
	Institute of Hotel Management	
	Mc Donalds	• ]
	Industrial canteen	
	Philanthropic institution	
	• Airport	
4.	Quantity cookery classes for preparation of food items for eg.:	
	Chaula dal ki pakori, Bread rolls, Mini pizzas, Burgers, Mexican tacos, Idli sambhar, Pav	
	bhaji, Chole bhaturas, Bhelpuri	
5.	Term paper in any area of IFA	

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#### SCIENTIFIC WRITING-II (PRACTICAL) Paper Code: FHN 414 Max. Marks: 100 Teaching Hours: 1Practical/Week Total Teaching Workload: 12 Practical per Semester Objectives: To enable students to develop skills in 1. Writing Scientific papers, abstracts, review articles, monographs, dissertations, bibliography 2. Using computer to support scientific writing Contents: Practicals Definitions - Introduction to the definition of different writing skills: Technical report, 1. scientific paper, abstract, review article, and research note. Exercises - Listing and classification of dissertations available in the library, on the basis of 6 topics of dissertation work. (2-practicals). Exercises: On the basis of topic identified in the dissertation work, prepare the following: 6 Technical report Scientific paper Abstract Research note References: The craft of scientific writing by Michael Alley. APA: Publication manual of American Psychological Association - 3rd edition, Washington, 1984. Robert AD, Barbara G, How to write and publish a scientific paper: 7th edition, Greenwood, Oxford, 2011. Martha D, Kaaron JD, Marion D, Scientific papers and presentations, 3rd edition, Elsevier, China, 2012. William S, White E, Rogell A, The elements of Style, 4th edition, Pearson Education Limited, Harlow, 2014. Michael A, The craft of scientific writing, Springer publishers, 1998. DISSERTATION -II (PRACTICAL) Paper Code: FHN 415 Max. Marks: 100 Teaching Hours: 3 practicals/week Total Teaching Hours: 36Practicals/Semester Objectives: 1. To enable student to write & present thesis To impart systematic and practical knowledge of research & its applied aspects To develop scientist quality in student Contents: **Practicals** Data collection, analysis & interpretation of data in form graphs, charts, tables & others Thesis writing and presentation I Introduction 2. Review of literature 3. Materials and methods 4. Result and discussions 5. Thesis writing and presentation II

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Conclusion

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	Summary	72
	Bibliography	2 2
3	Annexures	
	Writing and submission of one research paper based on conducted research findings	4
Keier	ences: refer available journals, research studies and abstract books	· · · · · ·
<b></b>	SKILL DEVELOPMENT IN FOOD AND NUTRITION (PRACTICAL)	
	Code: FHN 414  Marks: 100	
	ning Periods: 2 Practicals /Week(3Hours/Practical)	
	Teaching Work load: 24 Practicals/Semester	
	ctives:	<del></del>
	To gain comprehensive knowledge and skills in core areas of Nutrition.	·
Conte	<u></u>	actical
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	Skill development in: Link between good diet, nutrition and lifestyle choices on	1.
	wellbeing	
1.	Need for the link	3
2.	Skill on developing format (soft copy) and taking the nutritional history, dietary habits and	3
	lifestyle of the clients Skill in analysing and providing customized nutritional counselling for the clients	4
3.	Knowledge and skills through trainings	4
	Malnutrition treatment centre: Training will be given at MTC	
1	Need for the establishment of MTCs	1
4. 5.	Operational guidelines	1
6.	Skill in calculating, preparation and feeding of therapeutic diets	3
0.	Infant and young child nutrition:	3
	Training will be given at AWC	
7.	National guidelines in Infant and young child nutrition	. 1
8.	Techniques of initiation of breast feeding, and complementary feeding	1 2 2
9.	Techniques in calculation of frequency and adequacy of complementary food, (frequency,	2
	adequacy, density, utilisation)	~
	Integrated management of neonatal and childhood illness:	
	Training will be given at AWC/Sub centre.	
10.	Introduction to the IMNCI guidelines	1
11.	Implementation strategy of IMNCI with focus on nutrition by the families and communities	3
	through SAHAs	
12.	Implementation strategy of IMNCI with focus on nutrition by the families and communities	2
	through Health facilities	
Refer		
1.	Narayan I,et al. The components of essential new born care. Perinatal/Neonatal brief: Bas	ics II,
	USAID(2004).	
2.	The state of the s	s and
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# UNIVERSITY OF RAJASTHAN JAIPUR SYLLABUS

### SCHEME OF EXAMINATION AND COURSE OF STUDY

# FACULTY OF SCIENCE M.Sc HOME SCIENCE (SEMESTER SCHEME) HUMAN DEVELOMENT AND FAMILY

M. Sc. (I and II Semester) Examination, 2015-296 以 M. Sc. (III and IV Semester) Examination, 2016-297

M. Agrawal

und. Registrar (Acad.)

#### M.Sc. HOME SCIENCE HUMAN DEVELOPMENT AND FAMILY

### M.Sc. HOME SCIENCE First and Second Semester Scheme Examination, 201 Third and Fourth Semester Scheme Examination, 201

#### Scheme of Examination:

- 1. Each theory paper EoSE shall carry 100 marks The EoSE will be of 3 hours duration. Part 'A' of the theory paper shall contain 10 Short Answer Questions of 20 marks, based on knowledge, understanding and applications of the topics/texts covered in the syllabus. Each question will carry two marks for correct answer.
- 2. Part "B" of paper will consist of four questions as suggested below except in cases where a different scheme is specified in the syllabus.
  - First question will contain 6 parts out of which 4 to be answered carrying weightage of 5 marks each. Word limit for each answer will be 50-70 words.
  - There shall be 3 questions (with internal choice) of 20 marks each. The word limit for each answer will be 1000 words.
- 3. Each laboratory EoSE will be of four/six hours duration and involve laboratory experiments/exercises, and viva-voce examination with weightage in ratio of 75:25.

#### **Course Structure:**

The details of the courses with code, title and the credits assigned are as given below.

#### Abbreviations used:

#### Course category:

CCC: Compulsory Core Course ECC: Elective Core Course

SSECC: Self Study Elective Core Course SSCCC: Self Study Compulsory Core Course

DIS: Dissertation

#### Contact hours

L: Lecture T: Tutorial P: Practical

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Contact Hours per Week

L: Lecture

T: Tutorial

P: Practical

SS: Self Study

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#### FIRST SEMESTER

S. No.	Subject Code	Course Title	Course Category	Credit	H W	ontac ours /eek	Per	(Hrs	ation · )
					L	T	P	Thy	P
1.	HDF 101	Research Methodology	ccc	4	4	o	0	3	0
2.	HDF 102	History and Theories of Human Development – 1	ccc	4	4	0	0	3	0
3.	HDF 103	Foundations of Human Development	ccc	4	4	0	0	3	0
4.	HDF 104	Life Span Development- 1	ccc	4	4	0	0	3	0
5	HDF 105	Early Childhood Care and Education	ccc	4	4	0	0	3	0
6.	HDF 111	Skill Training in Development of Children	ccc	4	0	0	6	0	4
7	HDF 112	Early Childhood Care and Education	ccc	4	0	0	6	0	4
8	HDF 113	Approaches to Human Study	ECC	4	0	0	6	0	4 .
9	HDF 114	Innovative and Creative Skills in Children	ECC	4	0	0	6	0	4
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S.	Subject Code	Course Title	Course Categor	Credit	H	onta lours Veek	ct Per	EoS Dur (Hr	ation
<b>.</b>			J		L	T	P	Thy	P
1.	HDF 201	Statistics	ccc	4	4	0	0	3	0
2.	HDF 202	History & Theories of Human Development -II	ccc	4	4	0	0	3	0
3.	HDF 203	Philosophies, Ideologies and Approaches of ECCE	1	4	4	0	0	3	Q
4.	HDF 204	Life Span Development  —II	ECC	4	4	0	0	3	0
,5.	HDF 205	Early Childhood Care Education	CCC	4	4	0	0	3	0
6.	HDF 206	Parenthood and Family	CCC	2	2	0	0	3	0
7.	HDF 211	Computer Application	ссс	2	0	0	3	0	4
8	HDF 212	Assessment and Evaluation of Psychological testing	CCC	4	0	0	6	0	4
9	HDF 213	Adolescent and Adult Issues	ccc	4	0	0	6	0	4
10.	HDF 214	Skill Development in Welfare Agencies	ECC	4	0	0	6	0	4
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#### THIRD SEMESTER

S. No.	Subjec t Code	Course Title	Course Categor	Cre dit	Ho	ontac ours l eek		EoSE Dura (Hrs.	tion
			y		L	T	P	Thy	P
1.	HDF 301	Family Dynamics	CCC	4	4	0	0	3	0
2.	HDF 302	Children with Developmental Disabilities	CCC	4	4	0	0	3	0
3.	HDF 303	Rights, laws and policies for children and adults	CCC	4	4	0	0	3	0
4	HDF 304	Guidance and Counseling	CCC	4	4	0	0	3	0
5	HDF 311	Guidance and Counseling	CCC	4	0	0	6	0	4
6	HDF 312	Developing Entrepreneurial skills	CCC	4	0	0	6	0	4
7	HDF 313	Agency Placement	SSECC	4	0	0	0	0	4
8	HDF 314	Scientific Writing-I	ECC	2	0	0	3	0	4
9.	HDF 315	Dissertation- I	CCC	6	0	0	9	0	4
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HDF FOURTH SEMESTER

S. No	Subject Code	Course Title	Course Category	Cre -	H	ontac ours 'eek		EoSl Dura (Hrs	ation
					L	T	P	Thy	P
1.	HDF 401	Administration and Management of Welfare Agencies	CCC	4	4	0	0	3	0
2.	HDF 402	Psychological Disorders	CCC	4	4	0	0	3	0
3.	HDF 403	Cross Cultural Psychology	CCC	4	4	0	0	3	Ô
4.	HDF 404	Contemporary  Issues in Human Development	CCC	4	4	0	0	3	0
5.	HDF 411	Training with Disabled Children	CCC	4	0	0	6	0	4
6	HDF 412	Family and Community Studies	ECC	4	0	0	6	0	4
7.	HDF 413	Need Based care of Elderly	SSECC	4	0	0	0	0	4
8.	HDF 414	Scientific Writing II	ECC	2	0	0	3	0	4
8.	HDF 415	Dissertation –II	CCC	6	0	0	9	0	4

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CCC (26), ECC (06), SSCC(4)

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## 148 first semester

Paper Code : HDF 101  Max. Marks: 100  Teaching Hours: 4 hours/week  Total Teaching Workload: 48 hours/Semester  Objectives:  1. To understand the basic concepts of research methodology.  2. To be able to understand the various steps of research methods.  3. To enable the students to understand various research designs, sampling techniques, methods of collecting data.  4. To enable the students to prepare and present report for dissertation purpose  Contents:  UNIT-I  Research purpose and objectives.  2. Definition and Identification of research problem, selection of problem, hypotheses, basis assumption and limitation of problem.  3. Review of literature: Importance, sources and writing review of literature.  6 Research designs: Purpose and types.  UNIT-II  5. Technique of sampling- Census and sampling methods, probability and non-probability sampling procedures, sample size.  6. Data gathering instruments, measurements and scales, reliability and validity of measuring instruments. Questionnaire, Schedule, Score card, checklist.  Methods of collecting data: Questionnaire, interview technique, observation, case study, focus group discussion.  UNIT-II  8. Planning, executing and analysis of large scale surveys with special emphasis of surveys in Home science.  9. Presentation and preparation of report for dissertation publication.  10. Bibliography: Importance of method of writing references of book, journals, proceedings and websites.  6 References:
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#### HISTORY AND THEORIES OF HUMAN DEVELOPMENT-1 (THEORY)

Paper Code: HDF 102

Max, Marks: 100

Teaching Hours: 4 hours /week

Total Teaching Workload: 48 hours /semester

#### Objectives:

- 1. To acquaint the students with the basic knowledge and concepts of theories on personality and socialization.
- 2. Help students gain insights into understanding complex psychological influences.

1.	Historical perspectives and the trends in theoretical and empirical approaches to child/human	
	study and its relevance for pedagogy, psychotherapy and Intervention programmes.	
2.	Principles, basic concepts, critique, implications and comparative analysis of the following	· .
	theories:-	6
	Psycho-analytic theory of Sigmund Freud	. 0
	Psycho-social theory of Erik Erikson	0
	Carl-Jung's theory of personality	0
Jnit II		
3.	Principles, basic concepts, critique, implications and comparative analysis of the following	
•	theories: - Theories by Neo-Freudians	3
	Karen Horney	
	Harry Stack Sullivan	3
	Eric Fromm	3
	Anna Freud	3
nit II	<u>L </u>	
4.	Allport's theory of personality	6
. '	Adler's theory	6
	Maslow's theory of Self-actualization	4
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Valsiner, J (2000) Culture and Human Development. Sage. London. 2. Gilligan, C. (1982). In a different voice: Psychological Theory and Women's Development: Harvard 3. University Press. Cambridge. Armstrong, K. (2005). A short History of Myth. Penguin Books Ltd. London. 4. 5. Kessen, W. (1983) Handbook of Child Psychology, Vol. I: History, Theory and methods (4th ed.). John Wiley and Sons. New York. Baldwin, A.L. (1980): Theories of child development (2nd Ed.) John Wiley & Sons. New York. 6. B. Campbell 7. Hall Gardner Lindzey John (2007). Theories Of. Personality Edition, Publisher: Wiley India Pvt Ltd. FOUNDATIONS OF HUMAN DEVELOPMENT (THEORY) Paper Code: HDF 103 Max. Marks: 100 Teaching Hours: 4 hours /week Total Teaching Workload: 48 hours /semester **Objectives:** To enable students to understand the principles and processes of genetic reproduction, causes and characteristics of genetic Anomalies 2. To understand recent advances, importance of critical period, growth and human development. Contents: UNIT-I Hours 1. Principle of Human Development 6 6 2. Basic of Human Development: Genes and Chromosomes, Heredity and Environment. Meaning and Interactions of Heredity and Environment, Chromosomal Anomalies, Recent Advances in Genetics, Genetics Counselling. UNIT-II Basic themes in Human Development 3. 18 Active Vs Passive organism a) Continuity Vs Discontinuity in development b) Learning Vs Maturation c) Cognition Vs Language d) Early Environment, (critical period): Experiments and Research. Effect of early stimulation and deprivation. UNIT -III Stages of prenatal development, prematurity and low birth weight babies. Factors Affecting 5. Growth and Development. Birth process and complications, technological advances in prenatal monitoring and care-6. 6 sonography, amniocentesis, surrogacy, stem cell, test tube babies, and other recent advances. References: Narang D; Khunteta B & Koradia K (2009). Early child care and stimulation, Pointer publishers, Jaipur 1. Santrock, J. W. (1983). Life Span Development. Wm. C. Brown Publishers, Dubuque, Iowa. 2. 3. Stewart, Clarke, A., Friedman, S. (1987). Child Development: Infancy through Adolescence. John Wiley and Sons, New York.

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Hill Publishing Company Ltd. New Delhi.
5. Berk, L.E. (2004). Development Through the Lifespan (3rd Ed). Pearson Education, Inc. New Delhi.  LIFE SPAN DEVELOPMENT - 1 (THEORY)
Paper Code: HDF 104
Max. Marks: 100
Teaching Hours: 4 hours /week
Total Teaching Workload: 48 hours/semester
Objectives:
1. To acquaint students regarding the prenatal developmental processes and prenatal and
neonatal assessment.
2. To help students gain an understanding of the growth and development from infancy to late
childhood.
Contents:
UNIT-I Hours
1. Infancy:  • Developmental tasks/ milestones
The Neonate (Birth to 4 weeks) – Reflexes, Physical, Physiological, Sensory
• Perceptual Capabilities.
4 weeks up to 2 years: Physical and Motor, Social, Emotional, Language and
Cognitive Development.
UNIT -II
2. Early Childhood Years 8
Physical and Motor Development, and Handedness, Emotional and Social
Development, Cognitive, Language and Moral Development of Children in Early
Childhood Years.
3. Middle and Late Childhood Years
Physical and Motor Development, Emotional and Social development, Cognitive, 8
Language and Moral Development of children in Middle Childhood Years.  Unit III '
4. Adolescence: Development and Challenges
7. Adolestence. Development and Chanenges
Characteristic of pubertal changes.
Period of Storm and Stress; Physical changes, Hormonal and Physiological changes,
Growth spurt, Individual Differences and Early versus Late Maturation.
Reproductive and
Sexual Development.
• Social Development of Adolescents, Significance of Peers and Family;
Heterosexual
Attractions, Homosexuality, Parent - Child relationships and Discipline/freedom.  4
Understanding Adolescents' Emotional, Cognitive and Moral Development.
References:
1. Narang D; Chabra N&Koradia K (2010). Adolescent girls: awareness rights and reproductive health,
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#### EARLY CHILDHOOD CARE AND EDUCATION (THEORY)

Paper Code: HDF 105

Max. Marks: 100

Teaching Hours: 4 hours/week

Total Teaching Workload: 48 hours/semester

#### Objectives:

- 1. To gain knowledge and insight regarding early childhood care and education.
- To develop the skills and techniques to plan activities and implement in ECCE Centres i.e. crèches and day-care centres, preschool and anganwadi centres.
- 3. To gain knowledge and skills of positive discipline, behaviour modification and role of special educator.
- The students will also learn to evaluate ECCE centers.

Unit	1	Hours	}
1.	Need and importance of early childhood care and education (ECCE)	6	1
2.	Goals of ECCE: Theoretical and empirical perspectives.	6	1.
3.	Significance of early stimulation and learning for School Readiness.	6	
4.	Effective Teaching and Learning Strategies in ECCE. Different Curriculum models in ECCE	6	
Unit ]		<u> </u>	<del> </del>
5.	Developmentally appropriate curriculum/programme (DAC/DAP) and Program planning.		1
	Principles of planning, long and short term planning, small group and large group planning;		1
	Selection of activities and teachers' role to facilitate learning of different concepts such as	<b>,</b>	1
•	language, Rhythm, , Mathematics, Science, 3R's, Sensory experiences.	.	
6.	Organizational Set Up: Preschool building, site and location, plans for various types, learning	,	1
•-	centers, space all others for Indoor and outdoor play	6	0
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b) Characteristics of a quality ECCE Program.    Planning of developmentally appropriate ECCE activities: Goals, significance, objectives, criteria.    Safety education and issues in care of children.   Records and Registers: Values, types and maintenance, Report Writing and Evaluation of Children and ECCE programs.   Records and Registers: Values, types and maintenance, Report Writing and Evaluation of Children and ECCE programs.   Records and Registers: Values, types and maintenance, Report Writing and Evaluation of Children and ECCE programs.   Records and Recisters: Values, types and maintenance, Report Writing and Evaluation of Children and ECCE programs.   Records and Recisters: Values, types and maintenance, Report Writing and Evaluation of Children and Ecce and Education. In Govinda R. (Ed.) India Education Report: A profile of Basic Education (23-24) National Institute of Educational Planning and Administration: Oxford University Press. New Delhi.   Sharma, M. A. (1993) Current Issues in Early Childhood care and Education. In T.S. Saraswati and S. Kaul (Eds.) Human Development and family studies in India: An Agenda for Research and Policy. Sage. New Delhi.   Cleghorn, A. & Prochner, L. (2003). Contrasting visions of childhood: Examples from early childhood settings in Zimbabwe and India. Journal of Early Childhood Research, Sage, New Delhi.   Raut, S. Vyas, R. Sigh, A. and Tiwari, J. (2006) Art Education: Teacher's Handbook for Classes VII and VIII NCERT. New Delhi.   Anandiakshmy, S. (1989) Credicts in Delhi. Lady Irwin College, University of Delhi. David, T. (1999) Teaching Young Children. Sage Publication. New Delhi.   Swaminathan, M. (ed.) (1998). The First Five Years: A Critical Perspective on Early Childhood Care Education in India. Sage Publication. New Delhi.   Swaminathan, M. (ed.) (1998). The First Five Years: A Critical Perspective on Early Childhood Care Education in India. Sage Publication. New Delhi.   Swaminathan, M. (ed.) (1998). The First Five Years: A Critical Perspective on Early Chi	b) Characteristics of a quality ECCE Program.    Planning of developmentally appropriate ECCE activities: Goals, significance, objectives, criteria.   Safety education and issues in care of children.   4		
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	12 Jane	David, T. (1999) Teaching Young Children. Sage Publication. New Delhi.  Swaminathan, M. (ed.) (1998). The First Five Years: A Critical Perspective on Early Cheducation in India. Sage Publication. New Delhi.  SKILL TRAINING IN DEVELOPMENT OF CHILDREN (Practical)  per Code: HDF 111  ax. Marks: 100  aching Hours: 2 practicals/week (3 hours/practical)  tal Teaching Workload: 24 practicals /semester  njectives:  To a quaint student to gain knowledge regarding the development processes during neonatal per per help students gain understanding of the assessment of developmental task from infancy to la lidhood.  Intents:  Observation of Neonatal Reflexes.  Anthropometric Measurement and Assessment of Children in Different Age Groups and Settings: Plotting and interpretation of Growth Charts.  Assessment of various Developments of Infants.  Identification of Childhood Health and Developmental Problems.  Preparation of Observational Check List to Assess Physical, Motor, Social, Language, Emotional and Cognitive Developmental Tasks.	Practical  2 3 4 5 4
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12	12 Market	David, T. (1999) Teaching Young Children. Sage Publication. New Delhi.  Swaminathan, M. (ed.) (1998). The First Five Years: A Critical Perspective on Early Cheducation in India. Sage Publication. New Delhi.  SKILL TRAINING IN DEVELOPMENT OF CHILDREN (Practical)  per Code: HDF 111  ax. Marks: 100  aching Hours: 2 practicals/week (3 hours/practical)  tal Teaching Workload: 24 practicals /semester  njectives:  To a quaint student to gain knowledge regarding the development processes during neonatal per per help students gain understanding of the assessment of developmental task from infancy to la lidhood.  Intents:  Observation of Neonatal Reflexes.  Anthropometric Measurement and Assessment of Children in Different Age Groups and Settings: Plotting and interpretation of Growth Charts.  Assessment of various Developments of Infants.  Identification of Childhood Health and Developmental Problems.  Preparation of Observational Check List to Assess Physical, Motor, Social, Language, Emotional and Cognitive Developmental Tasks.	Practical  2 3 4 5 4
	1 1 Almer 12	David, T. (1999) Teaching Young Children. Sage Publication. New Delhi.  Swaminathan, M. (ed.) (1998). The First Five Years: A Critical Perspective on Early Cheducation in India. Sage Publication. New Delhi.  SKILL TRAINING IN DEVELOPMENT OF CHILDREN (Practical)  per Code: HDF 111  ax. Marks: 100  aching Hours: 2 practicals/week (3 hours/practical)  tal Teaching Workload: 24 practicals /semester  njectives:  To a quaint student to gain knowledge regarding the development processes during neonatal per per help students gain understanding of the assessment of developmental task from infancy to la lidhood.  Intents:  Observation of Neonatal Reflexes.  Anthropometric Measurement and Assessment of Children in Different Age Groups and Settings: Plotting and interpretation of Growth Charts.  Assessment of various Developments of Infants.  Identification of Childhood Health and Developmental Problems.  Preparation of Observational Check List to Assess Physical, Motor, Social, Language, Emotional and Cognitive Developmental Tasks.	Practical  2 3 4 5 4

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EARLY CHILDHOOD CARE AND EDUCATION (Practical)
Paper Code: HDF 112
Max. Marks: 100
Teaching Hours: 2 practicals/week (3 hours/practical)
Total Teaching Workload: 24 practicals /semester
Objectives: 1. To develop the skills and plan and implement activities in ECCE Centres i.e. creches and day-
centres, preschool and anganwadi centres.
2. The students will also learn to evaluate ECCE centres.
Contents: Practicals
1. Visits to various centres of early childhood care and education (ECCE).
2. Planning Programme and activities for Children's all round Development: Preparing Teaching 4
Aids.
0.111
4. Placement and Observation in different Early Childhood Education and Day Care Centres.
5. Organising Parent Teacher Meets, Celebration of festivals/functions, workshops and open 4
house for parent involvement.
6. Planning of nutritional supplements for preschool children.
APPROACHES TO HUMAN STUDY (Practical)
Paper Code: HDF 113
Max. Marks: 100
Teaching Hours: 2 practicals/week (3 hours/practical)
Total Teaching Workload: 24 practicals /semester
Objectives:
1. To help the students gain knowledge of methods of Human Study,
2. Apply these methods with different age groups, hence covering the life span stages of human
development.
Contents :
Practicals
1. Needs and Importance of Human Study. Different Approaches to Human Study: Cross 4
sectional approach, longitudinal approach, and sequential approach.
2. Methods of Human study: observation, survey, interview, questionnaire, experiment, case 6
study, sociometry, and focus group discussion – Merits and Demerits.
3. Quantitative and Qualitative Approaches to Human Study.
4. Applications of Methods in Different Stages of Life.  Critical Analysis of current Issues through FGD'S and Debate with Focus on Child Women
5. Critical Analysis of Cartonic Issues and agricultural bound with 1 ocus on Child, Women
and Elderly.
INNOVATIVE AND CREATIVE SKILLS IN CHILDREN (PRACTICAL)
Paper Code: HDF 114
Max. Marks: 100
Teaching Hours: 2 practicals/week (3 hours/practical)
Total Teaching Workload: 24 practicals /semester
total Teaching Workload: 24 practicals /semester
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	To develop creative skill among students for the overall assessment of Child Care centres.	. '
Cont		ctical
	Meaning, Definition and Significance of Play and Creativity in Growth and Development of children.	3
2.	Types of Play: Exploratory, Solitary, Parallel, Symbolic, Constructive, Dramatic/role play, Co – operative play, individual play, Group Play, Sports, Games.	3
	Components of Creativity: Fantasy, Imagination, Giftedness, Fluency, Flexibility, Originality, Celebration and Curiosity.	3
	Equipments and Materials Used for Promotion of Play and Creativity (Indigenous Play Materials).	3
5.	Planning and Implementation of Play and Creative Activities with Children in Different Age	6
	Groups.	P
6.	Preparation of Materials and Aids to Promote Play and Creativity.	3
7.	Survey and Evaluation of Children's Literature and Play Materials.	3

#### SECOND SEMESTER STATISTICES (THEORY) Paper Code: HDF 201 Maximum marks: 100 Teaching Hours: 4 hours/week Total Teaching Workload: 48 hours/week Objectives: 1. To understand the basic concepts of statistics. To enable the students to understand various types of statistical tools and their interpretation Contents: Hours UNIT-I Meaning and scope of Statistics. 1 1. 2 Classification and Tabulation 2. Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles, Range and 3. 7 Standard Deviation). Graphic and Diagrammatic representation of data (Frequency, Histogram, Graphs, Bar-6 diagram and Pie charts). UNIT -II Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis definition. Elementary ideas of random variable and its density function (Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its properties, Use of Normal probability tables). Elements of testing a Statistical Hypothesis- Formulation of the problem, Definition of 6. typeI and II errors. Level of Significance, t-test, Z-test. Design of Experiment: Analysis of Variance

UNIT-III

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8. 4.	Correlation and Regression: Correlation and its interpretation. Product moment and Rank	8
. 1.	order. Correlation Coefficient Regression Equations (without derivation)and its	•
	interpretations, use of prediction.	
9.	Non-parametric Inference: Sign, Mann Whitney and Chi square test (as goodness of fit and	5
	independence of attributes in 2*2 and r*c contingency tables).	
10.	Use of computer of statistical analysis using SPSS.	
Refer	ences:	
1.	Simpson, George , Kafka, Fritz, Basic statistics: a textbook for the first course, Oxford and	IBH
	Publishers, New Delhi, 1977.	
2.	Taro Yamme, Sampling Theory, Prentice-Hall Publishers, New Delhi 1967.	•
3.		
	Gupta S.P., Statistics Methods, Sultan Chand and Co., New Delhi, 2008.	
<b>).</b>	Good C.V. and Carter D.E., Methods of Research-Educational Psychological Application, Cen	tury
	Craft, New York 1954.  Kerlinger F.A., Foundation of Behavioural Research, Century Craft, New York, 1966.	
	Yound P.V. and Schind C.G., Scientific Social Survey and Research, Prentice Hall, New Delhi, 19	60
8	Philips B.S, Social Research, Strategy and Tactics, MacMillan, New York, 1976.	UO.
9.	Mussed Paul, Hand book of Research Methods in Child Development, John Wiley & Sons Inc, 196	so. 1
10.	Devdas R.P. and Kulandaivel, Hand Book of Research Methodology, Sri Ram Krishna miss	ion
	vidhyalaya, 1971.	
11.	Krishnaswami R.P., Methodology of Research in Social Sciences, 1st edition, Himalaya Publish	ing
	house, Mumbai, 1993.	
	HISTORY AND THEORIES OF HUMAN DEVELOPMENT – II (THEORY)	
-	Code: HDF 202	- I
,	Marks: 100	
	ing Hours: 4 hours /week	1
	Teaching Workload: 48 hours /semester	
	ives:	
1.	To acquaint the students with the basic knowledge and concepts of theories on learning, cognitic	on,
	intelligence, culture and morality.	- [
2.	To help them to gain insights into understanding of complex psychological influences.	
nit I	Hours	
1.	Principles, basic concepts, critique, implications and comparative analysis of the following 10	
	heories:	- 1
2.	Cognitive theories of Jean Piaget and Bruner.	.
3.  I	Learning Theories with reference to Pavlov, Watson, Skinner, Harlow, Bandura and Sears 10	
nit II		$\neg$
	Field theory of Levin. 6	
	Gardner's theory of Multiple Intelligence.	ł
6.	Ecological Theory by Bronfen Brenner.	
nit II		$\dashv$
	Vygotsky's socio-cultural perceptive.	-
	Chomsky's theory of language.	
	Kohlberg's theory of Moral Judgement.	. ohe
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#### References: 1. Hetherington, E.M. and Parke R.D. (1986). Child Psychology- a Contemporary viewpoint (3rdc). McGraw Hill Book Company. New York 2. Baldwin, A.L. (1980). Theories of child development (2nd Ed.) John Wiley & Sons. New York 3. Shaffer, D.R. (1993). Development Psychology - Childhood and Adolescence (3rd Ed.) Brooks/Cole Company, California. Santrock, J.W. (1996). Child development (7th Ed.) Brown & Benchmark. USA. Vasta, R; Haith, M.M. & Miller, S.A. (1992) Child Psychology- The Modern Science New York: John Wiley & Sons. PHILOSOPHIES, IDEOLOGIES AND APPROACHES OF ECCE (THEORY) Paper Code: HDF 203 Max. Marks: 100 Teaching Hours: 4 hours/week Total Teaching Workload: 48 hours/semester 1. To gain knowledge and insight regarding Philosophies of early childhood care and education 2. To understand the contributions of Indian thinkers and educators for ECCE. 3. To gain Knowledge regarding Types of ECCE programmes. Unit I Hours Historical perspectives of ECCE in the West and in India. Philosophies and contributions of Western Thinkers and Educators 2. 10 Plato Commonius Rousseau Mcmillan Sisters Froebel John Dewey Maria Montessori Unit II 3. Philosophies and contributions of Indian thinkers and educators. M.K. Gandhi Rabindranath Tagore Annie Besant Gijubhai Badheka Tarabai Modak and Anutai Wagh Unit III Types of ECCE programmes 5 Head start Balwadi ICDS /Anganwadi Nursery school siry of Rajastha m. Agrawa



Day care centre and crèches

#### References:

- 1. Brewer, J.A. (1998). Introduction to early childhood education (3rd Edition). Allyn and Bacon, Boston.
- 2. Essa, E.L. (1999). Introduction to Early Childhood Education (3rd Edition). Delmar Publisher: US.
- 3. Khurshid-ul-Islam and Rao, V.K. (1997). (edited). Early childhood care and education. New Delhi: Commonwealth Publishers.
- 4. Kaul, V. (1997). Early Childhood education programme. New Delhi: NCERT.
- 5. Mohanty and Mohanty (2002). Early Childhood Care and Education(ECCE) New Delhi: Deep and Deep Publication Pvt.Ltd.
- 6x Nakra, O. (1997). Children and learning difficulties. New Delhi; Allied Publishers Limited.
- 7. Schirrmacher, R. (1998). Art and creative development for young children (3rd edition). Delmar Publishers: US.
- 8. Skinner, S. (2007). Creative Activities for the Early Years. Paul Chapman Publishing. Sage: UK.

#### LIFE SPAN DEVELOPMENTS -II (Theory)

Paper Code: HDF 204 Max. Marks: 100

Teaching Hours: 4hours/week

Total Teaching Workload: 48 hours/semester

#### Objectives:

- 1. To acquaint students regarding the prenatal developmental processes and prenatal and neonatal assessment.
- 2) To help students gain an understanding of the growth and development from infancy to late childhood.

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Unit		Hours
1.	Late Adolescence	12
	Problems and challenges of late adolescence.	
	Understanding adolescence emotional, cognitive, and moral development.	,
	Adolescence: Erikson and Maria's model.	·
	• Significant Issues in Adolescence: Rebellion and Conflict with Home and School	
	Authorities, Delinquency and Psycho - emotional Problem, Educational and career	
	Choices and Co – curricular Interests.	•
2.	Early Adulthood:	12
	Understanding developmental tasks of early adulthood (18-40 years)	
	Period of Youth (18-25 years) and its challenges	•
	Choices in career and marriage	
	Interpersonal and Intrapersonal adjustments	
	Preparation for Parenthood and child rearing, roles and responsibility	
	• Significant issues in adulthood: Live-in-relationship, Being single, Divorce,	
	Remarriage, Gay marriage, DINKS, Adoption and single parent adoption.	

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#### Unit II Middle Adulthood/Middle age Challenges, adjustments and developmental tasks of middle adulthood (40-60 years) Onset of climacteric changes: Menopause and Andropause, mid life crises Adjustment and management of health needs, increasing status and pressure in work and career; Familial stage of "empty nest" Social responsibilities and leisure time activities. Preparation of settlement of children and retirement. Unit III Late Adulthood and Aging: 12 Challenges and Adjustment during late adulthood and aging (60-onwards). Declining physical/motor, memory and sensory capacities. Adjustment with changes in familial situation, losing of life partner or significant others and facing grief and loss; Financial adjustment, organizing social life and activities. Factors to "successful aging". References: 1. Santrock, J. W. (1983). Life Span Development. Wm. C. Brown Publishers, Dubuque, Iowa. 2. Freiberg, K. L. (1992). Human Development: A Life Span Approach. Jones and Bartlet Publishers, 3. Kaluger, G. (1986). Human Development: The Span of Life. Macmillan Publishing Company, New 4. Papalia, D.E., Olds, S.W. and Feldman, R.D. (2004). Human Development (9th Ed). Tata McGraw-Hill Publishing Company Ltd. New Delhi 5. Berk, L.E. (2004). Development Through the Lifespan (3rd Ed). New Delhi: Pearson Education, Inc. 6. Bhatt, N. (2007). Human Development- A Lifespan Perspective. Jaipur : Aavishkar Publishers. 7. Rice, F.P. (1992). Human Development: A Lifespan Approach. New Jersey: Prentice Hall. 8. Shaffer, D,R. and Kipp, K. (2007). Developmental Psychology: Childhood and Adolescence (7th Ed). Australia: Thompson Wadsworth Saraswathi, T.S.(2003). Cross-Cultural perspectives in Human Development: Theory, Research and Applications. New Delhi: Sage Publications. EARLY CHILDHOOD CARE AND EDUCATION (THEORY) Paper Code: HDF 205 Max. Marks: 100 Teaching Hours: 4 hours /week Total Teaching Workload: 48 hours /semester Strar (Acad-1) Asstr. M University of Rajosthas pr. Agrawal

#### Objectives:

- 1. To gain knowledge and insight regarding early childhood care and education.
- 2. To develop the skills and techniques to plan activities and implement in ECCE Centres i.e. crèches and day-care centres, preschool and anganwadi centres.
- 3. To gain knowledge and skills of positive discipline, behaviour modification and role of special educator.
- 4. The students will also learn to evaluate ECCE centres.

Unit I		Hours
1.	Focus on Early Childhood Care and Education in five years plans.	2
	Organisation and management of ECCE centres.	
2.	Planning and execution of developmentally appropriate activities for infants and	8
3.	preschoolers in:-	6
٦.	(a) Crèches and day-care centres	
) (8)	(b) Preschools and Anganwadis	
Unit I	I	· · · · · · · · · · · · · · · · · · ·
4.	Home School Relationship - Need and Importance.	2
5.	Need and Importance of involvement of parents/grandparents in ECCE centres e.g. as	8
,	substitute teacher, celebration of festivals and functions, open house, as an expert etc.	
6.	Techniques of Parent Education i.e. PTM, Home Visits, Workshops, Lectures, Telephonic	6
	calls, Demonstrations, PTAs and any other relevant technique.	
Unit I	п	:
7.	Disciplining children: tips for teachers and parents to introduce positive discipline.	4
8.	Behaviour modification strategies for young children.	. 41
	Role of special educators in ECCE Centres to facilitate inclusive education.	8
	Evaluation: -	,
	Definitions and meaning and types of evaluation, Informal / Ongoing evaluation,	
	Formative and Summative evaluation. Techniques/ tools for evaluation:	
	Observations, structured interviews, work records, checklists and rating scales, self-	: {
	evaluation, standardized tests i.e. norm referenced tests and criterion- referenced	· {
	tests.	

#### References:

- Agarwal M &NarangD, (2004) AbhinavPrashikshan Training Module for Lady Supervisors, CARE INDIA, Jaipur
- 2. Ainsworth, F. and Fulcher, L.C. (Ed.) (1981). Group care for children. Tavistock Publication. .London and New York.
- 3. Topping, K.J. (1986). Parents as educators' training Parents as Educators Training Parents to teacher their children. London & Sydney: Croomhelm.
- 4. Turner, J. (1980) made for life-coping, Competence and cognition. London and New York: METHUEN
- 5. Kostelink, M.JU. Soderman, A.K. and Whiren, A.P. Developmentally Appropriate Curriculum-Best Practices in Early Childhood Education: Merrill and imprint of Practice Hall
- 6. Grewal, J.S. (1984) Early Childhood Education Foundation and Practice. National Psychological Corporation Agra.
- 7. Narang, D. Purohit S. and Karodia, K. (2008) Early Childhood care and Development Practical Manual. Shivam Book House Pvt. Ltd, Jaipur.
- 8. Narang, D. Purohit S. and Karodia, K. (2008) Early Childhood care and Development Practical

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Manual. Shivam Book House Pvt. Ltd, Jaipur.

#### PARENTHOOD AND FAMILY (THEORY)

Paper Code: HDF 206 Max. Marks: 100

Teaching Hours: 2 hours/week

Total Teaching Workload: 24 hours/semester

#### Objectives:

- 1. To gain knowledge and insight regarding responsible parenthood and fatherhood.
- 2. To gain knowledge of reproductive health and rights, family planning techniques and services.

Unit		Hours
1,	Parenthood: meaning and different theoretical views.	4
2.	Changing concept of parenthood with special focus on fathering and responsible parents.	Ani-
Unit	II	
3.	Contribution of different agencies and centers in parenthood:	4
	Family planning centers, Hospitals, Maternity and child welfare centers.	
4.	Reproductive and child health programs and reproductive's rights of women.	. 4
Unit	${f m}$ .	
5.	Birth control measures: abstinence, breast feeding, pills, sponge, condom, IUD, spermicide, tubectomy, vasectomy, cervical cap, diaphragm and other advanced measures.	4
6.	Planned Parenthood services: safe abortion, HIV testing, pregnancy testing, general health care, STD testing: treatment and vaccines.	4

#### References:

- 1. Narang, D. Vaishnav R & Karodia, K. (2011) Child marriage: determinants and psycho-social consequences, Avishkarprakashan Jaipur.
- 2. Brim, Haman (1980): Learning to be Parents, Principles, Programs, and Methods. SAGA Publication.
- 3. Fine Harwin (1980): Handbooks on Parent Education, New York: Academic Press Inc.
- 4. Gillian, Pugh (1984): The Needs of Parents, Practice and Policy in Parent Education, Macmillan.
- 5. Kulkarni, Sudha (1988): Parent Education, Rawat Publication, Jaipur.
- 6. Family Planning and Reproductive Health by Congressional Research Service, Inc Penny Hill Press and Kurtis Toppert.
- 7. Rebecca A. Clark (2009): Planning Parenthood: Strategies for Success in Fertility Assistance, Adoption, and Surrogacy. Johns Hopkins University Press.

#### COMPUTER APPLICATION (PRACTICAL)

Paper Code: HDF 211 Max. Marks: 100

Teaching Hours: 1practicals /week (3 hours/practical)
Total Teaching Workload: 12 practical /semester

#### Objectives:

- 1. To understand the basic fundaments of computer and role of computer in research application.
- 2. To enable the students to handle computer for the purpose of data communication and internet browsing.

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3. To enable the students to use MS office and basic concepts in SPSS	
	•
Contents:	
Introduction	
1. Classification of computers and computer memory.	1 1
2. Types of software: Application and System software, Operating System and Types: Single user	;   1
multiuser.	
Data Communication and Networks	
3. Data communication concept	
4. Internet, web-e-mails	1 1
5. Search engines- Enterprises: e-communication and e-collaboration	1
MS Office and its Application	
6. File handling in windows	1
7. MS Word: Text formatting	1 1
8. MS Excel: Features, various formula and functions	1
9. MS Power Point: Creating presentation and adding effects	1
Statistical Software for Social Sciences (SPSS)	
10. Introduction to SPSS: Definition, objectives and features.	1
11. Data analysis using SPSS: Data entry, creating variables, switching to data labels.	1
12. Data analysis: frequencies, recording into different variables, cross tabulation and layers.	1
References:	
2. Norton P. Introduction to Computers, TAT Mc Graw Hill, 2005.	* * **
<ol> <li>Norton P. Introduction to Computers, TAT Mc Graw Hill, 2003.</li> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ramesh Book De New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> </ol>	pot,
<ol> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ramesh Book De New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> </ol>	走
<ol> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ramesh Book De New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> </ol> ASSESSMENT AND EVALUATION OF PSYCHOLOGICAL TESTING (Practical)	走
<ol> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ramesh Book De New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> </ol> ASSESSMENT AND EVALUATION OF PSYCHOLOGICAL TESTING (Practical) Paper Code: HDF 212	走
<ol> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ramesh Book De New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> <li>ASSESSMENT AND EVALUATION OF PSYCHOLOGICAL TESTING (Practical)</li> <li>Paper Code: HDF 212</li> <li>Max. Marks: 100</li> </ol>	走
<ol> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ramesh Book De New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> <li>ASSESSMENT AND EVALUATION OF PSYCHOLOGICAL TESTING (Practical)</li> <li>Paper Code: HDF 212</li> <li>Max. Marks: 100</li> <li>Teaching Hours: 2 practicals/week (3 hours/practical)</li> </ol>	走
<ol> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ramesh Book De New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> <li>ASSESSMENT AND EVALUATION OF PSYCHOLOGICAL TESTING (Practical) Paper Code: HDF 212</li> <li>Max. Marks: 100</li> <li>Teaching Hours: 2 practicals/week (3 hours/practical)</li> <li>Total Teaching Workload: 24 practicals /semester</li> </ol>	走
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- Reliability-meaning, types-retest; parallel-form, internal consistency.
- Validity-meaning, types-content, criterion, construct.
- Norms and interpretation of test score.
- 6. Administration of test & report writing:

The Wechsler battery of tests, TAT, CAT, Draw a man test, house-tree-person, Ravens Progressive Matrices, Self- Esteem Inventory, Sex- role Inventory, Myers Briggs type indicator etc.

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- 3. Bhatnagar, G.L. (1990): Research Methods and measurements in behavioural and social sciences, Agri. Cole publishing Academy, New Delhi.
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- 5. Pareek, U. and Purohit, S. Training Instruments in HRD and OD, 3rd edition, Tata McGraw Hill, New Delhi.

### ADOLESCENT AND ADULT ISSUES (PRACTICAL)

Paper Code: HDF 213 Max. Marks: 100

Teaching Hours: 2 practicals/week (3 hours/practical)
Total Teaching Workload: 24 practicals /semester

### Objectives:

- 1. To acquaint students to gain knowledge regarding the development processes during adolescent period.
- 2. To help students gain an understanding of the assessment of social, emotional, psychological and other significant issues related to adolescence, adulthood and ageing years.

Con	Contents: Hours	
1.	Formulation of questionnaire to assess adolescent problems and conflicts	5
2.	Plan and organize FGD for adolescents for healthy and responsible psycho social behavior.	5
3.	Preparation of interview schedule for adults taking into account their developmental tasks.	4
4.	Organising interactive session and focus group discussions on significant issues of adulthood.	4
5.	Conversations and interviews and case study with elderly to highlight their concerns, anxieties, adjustment and other problems. Planning and organising social activities with elderly.	6

### SKILL DEVELOPMENT IN WELFARE AGENCIES (Practical)

Paper Code: HDF 214 Max. Marks: 100

Teaching Hours: 2 practicals/week

Total Teaching Workload: 24 practicals /semester (3 hours/practical)

### Objectives:

1. The students will visit and be acquainted to functioning of different welfare agencies working for children, women and elderly.

2. They will also participate and be enabled to produce a blue print for the same.

Contents:

Practicals

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University 169

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É	164	
1.	Preparation of a checklist to assess: - administration, management, infrastructure facilities	8
3.3	and functions of child, women and elderly people welfare institution (Govt. and NGOs).	
2.	Preparation of a checklist to assess governmental provisions and polices on child, women	' 4
	and elderly people welfare.	
3.	Organising field visits (5-6) to various welfare organisations working for- Children,	4
	Women and ageing adults.	•
4.	Critical analysis of any two welfare institutions through participatory approach and	. 8
	Preparation of a blue print with suitable recommendations.	

•	THIRD SEMESTER	
	FAMILY DYNAMICS (THEORY)	
Dana ·	Code: HDF 301	
	Marks: 100	
	ing Hours: 4 hours/week	•
	Teaching Workload: 48 hours/semester	•
	tives:	
•	understand family as a component of socio-cultural milimu and context, to familiarize stude	ents wit
	pmental perspective in family life cycle.	
	inderstand variations in family life patterns.	4
	create awareness regarding philosophy, structure, function needs and strengths of famil	ies with
	c reference to the Indian Family.	`a
Conte		
J <b>N'T</b> -	1	Hours
1.	The Family in Social Context: Family as a component of social system, structure and	8
	context. Family as an evolving and dynamic institution. Functions of family.	
2.	Family- Definitions of family from different perspectives Approaches of Family -	8
	Biological, Historical, Sociological, Developmental, Structural and Functional. Family as	0
	evolving and dynamic institution. Current Family problems.	
JNIT-	П	
3.	Family and Societal exchanges / influences: Work and Family, Education and Family,	8
	Health and Family, Religion and Family, Ecology and Family, Government and Family.	
4.	Kinship Groups and Systems, Types, Degrees Descent and Usage and its influence on	4
	Child's Development.	
INIT-		
5.	Society: Structure-Rural, Urban and Modern Society and its influences on the family.	4
	Social Stratification- Social Ranking and Social Class Difference.	
6.	Socialization: Meaning and Importance, Agents of Socialization, Socialization through the Life Course, Socialization in present context.	
	Personality as a Social Phenomenon, Personality and Society, Their Inter Relationship,	8
7.	Major Factors Affecting Personality, Impact of deprivation on the child.	8
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	Adams, B.N. (1975). The Family: A Sociological Family: A Sociological Interpretation. Ra	-11/-
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CHILDREN V	VITH DEVELOPMENTAL DISABILITIES (THEORY)	
Paper Code: HDF 302		
Max. Marks: 100		.
Teaching Hours: 4 hours /wee	الماد	<b>V</b>
, <del>-</del>		1
Total Teaching Workload: 48	HORIS / Semester	_
Objectives:		- }
The student will be able to	identia and abandanista of arranticulation in the state of the state of the state of the state of the state of	اء
	idence and characteristics of exceptionalities related to the domains of	и
development:	onality and special education.	1
- ·	onality as to genetic and/or environmental causes	
	or incidence of different categories of exceptionalities.	- [
	or characteristics of each area of exceptionality.	
Contents:	or ordinations of each mea or exceptionality.	$\dashv$
UNIT-I	Hour	
	f developmental disabilities. 4	<u>;</u> {
	treatment, and rehabilitation of children with Neurological 16	1
	isability, Autism, Down's syndrome, fragile X syndrome, Cerebral	-
palsy, Epilepsy.	, , , , , , , , , , , , , , , , , , , ,	
UNIT -II		7
	, treatment, and rehabilitation of children with sensory disabilities- 8	$\dashv$
wigual impairment audito	ory impairment speech impairment.	
	ory impairment, speech impairment.  treatment, and rehabilitation of children with metabolic and 8	1
4. Definition, causes, types,	, treatment, and rehabilitation of children with metabolic and 8	
4. Definition, causes, types, degenerative disorders-pl	, treatment, and rehabilitation of children with metabolic and henylketonuria, hypothyroidism, Rett syndrome	
4. Definition, causes, types,	, treatment, and rehabilitation of children with metabolic and 8	
<ul><li>Definition, causes, types, degenerative disorders-pl</li><li>Learning disabilities</li></ul>	, treatment, and rehabilitation of children with metabolic and henylketonuria, hypothyroidism, Rett syndrome	
4. Definition, causes, types, degenerative disorders-pl 5. Learning disabilities UNIT -III	, treatment, and rehabilitation of children with metabolic and henylketonuria, hypothyroidism, Rett syndrome  4	
4. Definition, causes, types, degenerative disorders-pl 5. Learning disabilities  UNIT -III 6. Inclusive, integrated and	, treatment, and rehabilitation of children with metabolic and henylketonuria, hypothyroidism, Rett syndrome  4  special schools  4	
4. Definition, causes, types, degenerative disorders-pl 5. Learning disabilities  UNIT -III 6. Inclusive, integrated and Rights, programs, policies	, treatment, and rehabilitation of children with metabolic and henylketonuria, hypothyroidism, Rett syndrome  4	
4. Definition, causes, types, degenerative disorders-pl 5. Learning disabilities  UNIT -III 6. Inclusive, integrated and a Rights, programs, policies References:	special schools sand acts of children with developmental abilities.  8  4  8  4  8  4  8  4  8  8  8  8  8	
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	n, Scope and Principles of Guidan			4
2. Areas of guid 3. Guidance ser	ance -educational, vocational and	personal		4
UNIT -II	VICES			4
	scope and principles of counselling	7	<del></del>	4
	counselling- person centred, Gest	•	nitive Trait factor	12
	d eclectic approach	ari, r by onounary 110, 00g	milito, Itali Iacioi,	12
	elling – counselling process – chara	acteristics of a counsello	or	4
UNIT -III		•		
	chniques - Important Factors - To	ols of Assessment		4
8. Special areas o				4
9. Counselling w	ith special children			4
10. Recording and	interpretation of a counselee from	a holistic perspective		4
References:	:			- (1)
marital adjustment, 2. Brammer, L.M. (1	nal R &Narang, D. (2009) – Wor Pointer publishers, Jaipur. 985). The helping relationships: Promier, L.S. (1979). Counselling str	ocess and skills. New Je	ersey: Prentice-Hall.	
4. Thornburg, H.E. (	1975). Contemporary Adolescence	: Readings, Belmont: W	adsworth.	
	CHUDANCE AND CO	UNSELLING (Practic		
Total Teaching Worl	racticals/week (3 hours/practical) doad: 24 practicals /semester			
	l be able to develop a tool. I be able to counsel different age gr	oups		
Contents:				
1. Visit to psychologic	al counseling cell			4
2. Writing and compil	ing articles on various aspects of gu	idance and counselling.		4
3. Need assessment of	individual guidance and counseling	g by suitable tool.		4
	v schedule for an effective Counsel			4
5. Visit a guidance cer	tre and write a report about its orga	mization and functions.		4
6. Case profile of an ir				4
	AGENCY PLACEME  2  acticals/week (3 hours/practical)  cload: 24 practicals /semester	NT (Practical)	200	
Total Teaching Work	aona. 21 practions rolliwood	<u> </u>	1 in said	-1)
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Or legitives: Students are required to be placed in an agency for a full semester.  1. Students will observe, learn and participate in selected agencies of children, w persons.  2. Students will require evaluating the working of the agency; highlighting strengt	
making recommendations.  Contents:  1. Visit to child, women and elderly welfare agencies/shelter homes(minimum 2 each)  2. Plan, prepare and implement program for overall development, recreation and educe inmates of the agency.  3. Placement experience - report writing and presentation	
DEVELOPING ENTREPRENEURIAL SKILLS (PRACTICAL) Paper Code: HDF 313 Max. Marks: 100 Teaching Hours: 2 practicals/week (3 hours/practical) Total Teaching Workload: 24 practicals /semester Objectives:	
<ol> <li>To orient students for various Entrepreneurial Skills.</li> <li>To help students to learn the planning, organizing and executing Entrepreneurial Sk</li> <li>Students will be able to use these skills in future.</li> </ol>	ills.
<ol> <li>Preparing teaching/play materials:         <ul> <li>Story, Rhymes, Poems, Song booklets etc.</li> <li>Puppets and Mobiles.</li> <li>Art and Crafts.</li> <li>Low cost Musical Instruments.</li> </ul> </li> <li>Planning and organizing activities like Bal Mela, PTM, Sports day, Annual day etc.</li> <li>Publicity, display and exhibition of prepared materials.</li> </ol>	6
2. Publicity, display and exhibition of prepared materials. 4. Play therapy for severely mal nourished children based on WHO guidelines.  SCIENTIFIC WRITING - I (PRACTICAL)	3
Paper Code: HDF 314 Max. Marks: 100 Teaching Hours: 1 Practical/week Total teaching workload: 12Practicals/Semester	
Objectives:  1. To be able to appreciate and understand the importance of writing scientifically.  2. To develop competence in writing and abstracting skills for different writing needs.  3. To develop the writing ability and to review different types of scientific writing.	•
Contents:  Scientific writing as a means of communication and preparing for writing:  1. Different forms of scientific writing: Articles in journals, research notes and reports, reviewarticles, monographs, dissertation, and bibliographies.  2. How to formulate outlines: The reasons for preparing outlines, kinds of outlines are Tank	
2. How to formulate outlines: The reasons for preparing outlines, kinds of outlines e.g., Topic outlines, conceptual outlines, theme outline.  3. Filling in the outlines and preparing the framework. E.g., drafting titles and subtitles.	1 (Acad-8)
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4. Tables and illustration and systematic means of presenting data	·4
Titles, rows, columns, footnotes	
Types of illustrations: graph, diagrams, flowcharts	
The writing process and styles of writing:	
. Use of outlines as starting device.	1
Making draft- improving the draft in relation to the objectives.	1
Various styles of writing, consistency and other aspects.	1
3. Types of scientific writing-reports, journal papers, abstract, monographs, dissertation, f	unding 1
tc.	
Components of scientific writing-	2
Introduction and Review of literature.	
. Methodology, Results and discussion, summary and conclusions	
Limitations, bibliography and appendices	
0. Writing a research proposal for grants-justification, rationale and importance of the	
eing addressed, empirical and theoretical conceptualization, presenting pilot study/data, i	
roposal and time frame, clarity, specificity of method, clear organization, outcome of the	• )
nd its implications, budgeting, available infrastructure and resources, executive summary deferences:	etc.
<ol> <li>APA, Publication manual of American Psychological Association, 3rd Edition, Wasl</li> <li>HM Cooper, Integrating research, A guide for literature review, 2rd Edition, S</li> </ol>	age publication
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!</li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!</li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!</li> </ol> DISSERTATION-1 (PRACTICAL)	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION-1 (PRACTICAL) Paper Code: HDF 315 </li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION-1 (PRACTICAL)     </li> <li>Paper Code: HDF 315</li> <li>Maximum Marks: 100</li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION-1 (PRACTICAL)     </li> <li>Paper Code: HDF 315</li> <li>Maximum Marks: 100</li> <li>Feaching Periods: 3practicals/week</li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION-1 (PRACTICAL)     </li> <li>Paper Code: HDF 315</li> <li>Maximum Marks: 100</li> <li>Feaching Periods: 3practicals/week</li> <li>Feaching Load: 36Practicals/Semester</li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION- 1 (PRACTICAL)     </li> <li>Paper Code: HDF 315</li> <li>Maximum Marks: 100</li> <li>Feaching Periods: 3practicals/week</li> <li>Feaching Load: 36Practicals/Semester</li> <li>Objectives:</li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION-1 (PRACTICAL)     </li> <li>Paper Code: HDF 315</li> <li>Maximum Marks: 100</li> <li>Feaching Periods: 3practicals/week</li> <li>Feaching Load: 36Practicals/Semester</li> <li>Objectives:         <ol> <li>To enable student to make and present a plan for research</li> </ol> </li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION-1 (PRACTICAL)     </li> <li>Paper Code: HDF 315</li> <li>Maximum Marks: 100</li> <li>Feaching Periods: 3practicals/week</li> <li>Feaching Load: 36Practicals/Semester</li> <li>Dbjectives:         <ol> <li>To enable student to make and present a plan for research</li> <li>To impart systematic and practical knowledge of research &amp; its applied aspects</li> </ol> </li> </ol>	
<ol> <li>HM Cooper, Integrating research, A guide for literature review, 2nd Edition, S California, 1989.</li> <li>FV Dunn and others, Disseminating Research: Changing profile, Sage publications!         DISSERTATION-1 (PRACTICAL)     </li> <li>Paper Code: HDF 315</li> <li>Maximum Marks: 100</li> <li>Feaching Periods: 3practicals/week</li> <li>Feaching Load: 36Practicals/Semester</li> <li>Dbjectives:         <ol> <li>To enable student to make and present a plan for research</li> <li>To impart systematic and practical knowledge of research &amp; its applied aspects</li> <li>To develop scientist quality in student</li> </ol> </li> </ol>	
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2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Feaching Periods: 3practicals/week  Feaching Load: 36Practicals/week  Feaching Load: 36Practicals/Semester  Dijectives:  1. To enable student to make and present a plan for research  2. To impart systematic and practical knowledge of research & its applied aspects  3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance  Collecting relevant review and research paper regarding to research problem	12
2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Teaching Periods: 3practicals/week  Teaching Load: 36Practicals/Semester  Objectives:  1. To enable student to make and present a plan for research 2. To impart systematic and practical knowledge of research & its applied aspects 3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance  Collecting relevant review and research paper regarding to research problem  2. Synopsis writing and power point presentation	994.
2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Feaching Periods: 3practicals/week  Feaching Load: 36Practicals/Semester  Dijectives:  1. To enable student to make and present a plan for research  2. To impart systematic and practical knowledge of research & its applied aspects  3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance  Collecting relevant review and research paper regarding to research problem  2. Synopsis writing and power point presentation  • Introduction	12 12
2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Feaching Periods: 3practicals/week  Feaching Load: 36Practicals/semester  Objectives:  1. To enable student to make and present a plan for research  2. To impart systematic and practical knowledge of research & its applied aspects  3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance  Collecting relevant review and research paper regarding to research problem  Synopsis writing and power point presentation  • Introduction  • Rational of the study	12 12 12 2
2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Feaching Periods: 3practicals/week  Feaching Load: 36Practicals/Semester  Objectives:  1. To enable student to make and present a plan for research  2. To impart systematic and practical knowledge of research & its applied aspects  3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance  Collecting relevant review and research paper regarding to research problem  Synopsis writing and power point presentation  • Introduction  • Rational of the study  • Objectives	12 12 12 2 2
2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Feaching Periods: 3practicals/week  Feaching Load: 36Practicals/Semester  Objectives:  1. To enable student to make and present a plan for research 2. To impart systematic and practical knowledge of research & its applied aspects 3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance Collecting relevant review and research paper regarding to research problem  Synopsis writing and power point presentation  • Introduction  • Rational of the study  • Objectives  • Review If literature (minimum 20 literatures should be cited)	12 12 2 2 2 2
2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Teaching Periods: 3practicals/week  Teaching Load: 36Practicals/Semester  Objectives:  1. To enable student to make and present a plan for research 2. To impart systematic and practical knowledge of research & its applied aspects 3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance Collecting relevant review and research paper regarding to research problem  Synopsis writing and power point presentation  • Introduction  • Rational of the study  • Objectives  • Review If literature (minimum 20 literatures should be cited)  • Brief methodology	12 12 2 2 2 2
2. HM Cooper, Integrating research, A guide for literature review, 2 nd Edition, S California, 1989.  3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications!  DISSERTATION-1 (PRACTICAL)  Paper Code: HDF 315  Maximum Marks: 100  Teaching Periods: 3practicals/week  Teaching Load: 36Practicals/week  Teaching Load: 36Practicals/Semester  Objectives:  1. To enable student to make and present a plan for research 2. To impart systematic and practical knowledge of research & its applied aspects 3. To develop scientist quality in student  Contents:  1. Identification, analysis and selection of research problem and its relevance Collecting relevant review and research paper regarding to research problem  Synopsis writing and power point presentation  • Introduction  • Rational of the study  • Objectives  • Review If literature (minimum 20 literatures should be cited)	12 12 2 2 2 2

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References:

1. Refer available journals, research studies and abstract books

## FOURTH SEMESTER

Γ	ADMINISTRATION AND MANAGEMENT OF WELFARE AGENCIES (THEORY	<del></del> _
Dane	r Code: HDF 401	<b>)</b>
	Marks: 100	
	hing Hours: 4 hours /week	
	Teaching Workload: 48 hours /semester	•
	clives:	*
	make students aware about administration and management of various government a	nd non
	vernment agencies, programs and policies related to nutrition, care and educational sta	
_	ildren in India.	,
2. To	teach them about demographic profile of Indian population.	•
Conte		
UNIT		Tours
1.	Health, nutrition and educational status of children in India with specific reference to girl	:06
	child and rights of children.	
2.	Welfare programs in India in five year plans.	06
UNIT	ן	
3.	Existing Government organisations looking for welfare of children and women in India	12
<i>J</i> .	ICCW, CSWB, NIPCCD, NCERT, TNEP, EPAI, ICSW, CHEB, CRY, Helpage India.	سي
	1	
4.	Welfare programmes in India – ICDS, SOS village, Chetana, Orphanages, Balbhawan	8
بلبئيب	society.	
UNIT		
5.	International organisations - UNICEF, WHO, CARE, DANIDA, World Bank, CASA.	8
6.	NGOs - Bodh, I- India, Diganter, Vatsalya, Mother Teresa home and other existing	8
	nongovernmental organisations.	
Refer	ences:	
	1. Koradia, K.: Narang, D. And Vaishnav, R. (2010) Status of Child and Welfare Organisa	ions,
	Avishkar Publishers and Distributors, Jaipur.	
	2. Barr, A.S., Burton, W.H. &Brenckner. L.J. "Supervision" D. Appleton - Century Comp	oany.
	New York, 1938.	,,,
	3. Social Welfare – CSWB. Periodicals	
	4. The Journal of the welfare- family planning, Association of India.	- 1
	5. The Indian Journal of Social work- Tata Institute of Social Sciences.	
Da=	PSYCHOLOGICAL DISORDERS (THEORY)	1
-	Code: HDF 402	
	Marks: 100	
	ing Hours: 4 hours /week	
Total	Teaching Workload: 48 hours /semester	
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University of Rajasthan
University of Rajasthan

- The students will be able to describe the diagnosis and classification process.
- The students will be able to describe mood disorders.
- 3. The students will be able to identify the different personality disorders.
- 4. The students will be able to discuss the characteristics and traits associated with the different personality disorders.

Cont.		Hours
1.	Meaning, definition of psychopathological disorders.	2
2.	Childhood and adolescence psychiatric disorders-conduct disorders, ADHD.	4
UNIT	:-II	<del></del>
3.	Mood disorders-depression, bipolar disorder.	4
4.	Neurotic and psychotic disorders-phobia, obsessive compulsive disorder, schizophrenia, paranoia, hysteria.	10
UNIT	r-m	, W
5.	Personality Disorders:	10
	(a) Dissociative (b) Impulsive (c) Anti-Social (d) Borderline	
:	(e) Avoidance (f) Dependent Personalities.	٠
6.	Sexual variations and disorders: Changing views of sexual Behaviour - Homosexuality	6
:	- Sexual Dysfunctions - Gender identify Disorder The paraphilias - Sexual	
7.	Victimizations.	,
	Psychological Models of Psychopathology: Biological, Psychodynamic,	12
	Behavioural, Cognitive-Behavioural, Humanistic, Existential, Socio-cultural.	

### References:

- 1. Atkinson, L et al. (2004). Attachment Issues in Psychopathology and Intervention. Lawrence
- 2. Berrios, G.E.(1996) The History of Mental Symptoms: Descriptive Psychopathology since the 19th century. Cambridge University Press, Cambridge.
- 3. Davidson, G.C., Blankstein, K.R., Flett, G.L., & Neale, J.M. (2008). Abnormal psychology. Mississauga, John Wiley & Sons.
- 4. Keating, D P et al. (1991). Constructivist Perspectives on Developmental Psychopathology and Atypical Development. Lawrence Erlbaum.
- 5. Maddux, J E et al. (2005). Psychopathology: Foundations for a Contemporary Understanding. Lawrence Erlbaum.
- 6. McMaster University. (2011). Psychological disorders. In Discover psychology (pp. 154-155, 157-158, 162-164) [Introduction]. Toronto, ON: Nelson Education.
- 7. Roudinesco, Elisabeth, Why Psychoanalysis?, New York, Columbia University Press, 2003
- 8. Roudinesco, Elisabeth and Michel Plon, Dictionnaire de la Psychanalyse, Fayard, Paris, 2000
- 9. Sims, A. (2002) Symptoms in the Mind: An Introduction to Descriptive Psychopathology (3rd ed). Elsevier.

10. Widiger, T A et al. (2000). Adult Psychopathology: Issues and Controversies. Annual Review of Psychology.

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CROSS CULTURAL PSYCHOLOGY (THEORY)

Paper Code: HDF 403

### Max. Marks: 100 Teaching Hours: 4 hours /week Total Teaching Workload: 48 hours /semester Objectives: 1. The field of cross-cultural psychology helps the students to understand the relationships between cultural context and human behavior. 2. The latter includes both overt behavior (observable actions and responses) and covert behavior (thoughts, beliefs, meanings) Contents: UNIT-I Hours Introduction and Overview: Theoretical Perspectives 18 ا ہا Meaning, Definition and Importance of Culture, Components of Culture, Culture change and Diversity, Advances - Culture and Technology Nature, Importance and Scope of Cultural Psychology Conceptual Models of Cross Cultural differences in Eastern and Western Cultures. A global Culture. Research in Western and Non-Western Countries. Methodological Issues in Cross-cultural Psychology UNIT -II Applied Perspectives 18 Selected Topics in Cross-cultural Research Family Structure and Child Rearing Practices , . }. Intercultural Perception and Interaction Cross-Cultural consideration in Health, Happiness and Illness. UNIT -III Application in Cross-cultural Research 12 Applied aspects of cross-cultural research. Development of educational programs, Cross-cultural communication; cross-cultural management; training programs for cross-cultural transitions. References: 1. Berry. J.W., Poortinga, Y.H., Pandey J. Dasen, P., Saraswathi, T.S., Segall, M., & Kagitcabasi, C. (1996). Handbook of cross-cultural psychology Vol. 1-3(2nd ed.). Allyn & Bacon. Boston 2. Berry, J.W., Poortinga, Y.H., Segall, M., Dasen, P.R., (1992). Cross-cultural psychology. Cambridge University Press. Cambridge. 3. Bodn, M.H., (Ed.) (1988). The cross-cultural challenge to social psychology. Newbury PK, Sage.California. 4. Bond, M.H. (Ed.) (1986). The psychology of the Chinese people. Oxford University Press. Hong Kong. 5. Bond., M.H. (Ed.) (1996). The handbook of the Chinese psychology. Oxford University Press. Hong.

Mr. Agrawaf

# 173 6. Brislin, R (Ed.) (1990). Applied cross-cultural psychology, Newbury Pk. Sage. California. 7. Lonner, W., & Berry, J.W. (Eds.), (1986). Field methods in cross-cultural research. Newbury Park, Sage, California. 8. Moghaddam, F., Taylor, D & Wright. S. (1993). Social psychology in cross-cultural perspective. W.H. Freeman. New York: 9. Pittu D.Laungani (2007) Understanding Cross-Cultural Psychology, Sage Publications New Delhi. CONTEMPORARY ISSUES IN HUMAN DEVELOPMENT (THEORY) Paper Code: HDF 404 Max. Marks: 100 Teaching Hours: 4 hours /week Total Teaching Workload: 48 hours/semester 1. To become aware of the current issues involved in Human Development. 2. To gain knowledge, insight and to analyze critical issues in society. Contents: UNIT-I Changing trends across cultures, impact of media and advanced technologies in families and community Gender gaps, Gender sensitization, Gender violence and equality Empowerment of various sections of society UNIT-II Definition, status and problems of child abuse and violence, situation of child labor in organized and unorganized sectors of India. 5. Women and violence, types of violence, domestic violence, harassment at workplace, marital violence

### Enabling family members and creating innovative support system for disabled References:

UNIT-III

1. Narang D; Koradia K & Neelam (2013). Female feticide and infanticide: educational program for adolescents, Lambert Academic Publishing, Germany

2. Craig R. Fiedler, Richard L. Simpson, Denise M. Clark. (2007). Parents and families of children with disabilities: Effective School-based Support Services. Pearson Merrill/Prentice Hall, The University of Michigan.

3. Calder M with Gordon H and Howarth E (2004) Children Living with Domestic Violence: Towards a framework for assessment and intervention. Lyme Regis: Russell House Publishing.

4. Debal K Singharoy (2002). Social Development and the Empowerment of Marginalised Groups Perspectives and Strategies SAGE Publications Pvt. Ltd., New Delhi.

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Understanding needs of special children and elderly persons

Hours

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TRAINING AND WORKING WITH DISABLED CHILDREN (PRACTICAL	)
Paper Code: HDF 411	· •
Max. Marks: 100	
Teaching Hours: 2practical/week (3 hours/practical)	
Total Teaching Workload: 24 practical/semester	* <u></u>
Objectives:	
The students will be able	•
1. To identify the special needs of children and develop confidence in them to realize their pot	entials and
abilities to meet the national development with self respect, dignity and freedom.	
2. To develop skills and competencies to cater to the needs of children with disabilities in g	eneral and
special class settings in particular, in cognitive, affective and skill domains.	
Contents:	racticals
1. Conduct special education assessment using appropriate assessment tools-Selection of 5	8
cases and develop need based assessment tools.	
2. Pha and prepare individualized educational program (IEP)- Develop curriculum modules	8
for selected cases.	
3. Develop appropriate teaching learning material, implement, and evaluate and record the	8
performance of the cases.	
FAMILY AND COMMUNITY STUDIES (PRACTICAL)	
Paper Code: HDF 412	
Max. Marks: 100	
Teaching Hours: 2practical/week (3 hours/practical)	
Total Teaching Workload: 24 practical/semester	1
Objectives:	•
1. To develop skills and competencies among students to work in communities.	
	mplement
<ol> <li>To develop skills and competencies among students to work in communities.</li> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> </ol>	mplement
<ol><li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li></ol>	mplement
<ol><li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li></ol>	racticals
To understand various needs of parents and children with in families and plan and it need based activities for them.  Contents:  P  Observation of daily routine of families & play activities of children in different socio-	racticals
To understand various needs of parents and children with in families and plan and it need based activities for them.  Contents:  Observation of daily routine of families & play activities of children in different socioeconomic groups.	racticals 6
<ol> <li>To understand various needs of parents and children with in families and plan and it need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> </ol>	racticals 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> </ol>	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child</li> </ol>	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li> </ol>	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and it need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li> <li>NEED BASED CARE OF ELDERLY (PRACTICAL)</li> </ol>	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and it need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li> <li>NEED BASED CARE OF ELDERLY (PRACTICAL)</li> </ol> Paper Code: HDF413	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and it need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li> <li>NEED BASED CARE OF ELDERLY (PRACTICAL)</li> </ol>	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and it need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li> <li>NEED BASED CARE OF ELDERLY (PRACTICAL)</li> </ol> Paper Code: HDF413	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li> <li>NEED BASED CARE OF ELDERLY (PRACTICAL)</li> <li>Paper Code: HDF413</li> <li>Maximum Marks: 100</li> <li>Teaching Periods: 2practicals/week (3 hours/practical)</li> </ol>	racticals 6 6
2. To understand various needs of parents and children with in families and plan and in need based activities for them.  Contents:  P  1. Observation of daily routine of families & play activities of children in different socio-economic groups.  2. Survey of child rearing and disciplinary practices in rural/slums and urban settings.  3. Early identification and assessment of Special children.  4. Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.  NEED BASED CARE OF ELDERLY (PRACTICAL)  Paper Code: HDF413  Maximum Marks:100  Teaching Periods: 2practicals/week (3 hours/practical)  Teaching Load: 24 Practical/Semester	racticals 6 6
2. To understand various needs of parents and children with in families and plan and it need based activities for them.  Contents:  1. Observation of daily routine of families & play activities of children in different socioeconomic groups.  2. Survey of child rearing and disciplinary practices in rural/slums and urban settings.  3. Early identification and assessment of Special children.  4. Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.  NEED BASED CARE OF ELDERLY (PRACTICAL)  Paper Code: HDF413  Maximum Marks:100  Teaching Periods: 2practicals/week (3 hours/practical)  Teaching Load: 24 Practical/Semester  Objectives:	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li></ol>	racticals 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>P</li> </ul> </li> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li> <li>NEED BASED CARE OF ELDERLY (PRACTICAL)</li> <li>Paper Code: HDF413         <ul> <li>Maximum Marks: 100</li> <li>Teaching Periods: 2practicals/week (3 hours/practical)</li> <li>Teaching Load: 24 Practical/Semester</li> <li>Objectives:</li></ul></li></ol>	6 6 6 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li></ol>	facticals  6  6  6
2. To understand various needs of parents and children with in families and plan and in need based activities for them.  Contents:  1. Observation of daily routine of families & play activities of children in different socioeconomic groups.  2. Survey of child rearing and disciplinary practices in rural/slums and urban settings.  3. Early identification and assessment of Special children.  Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.  NEED BASED CARE OF ELDERLY (PRACTICAL)  Paper Code: HDF413  Maximum Marks:100  Teaching Periods: 2practicals/week (3 hours/practical)  Teaching Load: 24 Practical/Semester  Objectives:  1. To orient students about various needs of elderly persons  2. The students will learn to work with elderly persons.  Contents:  Pr  1. Identification and working with specific programs running for elderly persons.	racticals 6 6 6 acticals 6
<ol> <li>To understand various needs of parents and children with in families and plan and in need based activities for them.</li> <li>Contents:         <ul> <li>Observation of daily routine of families &amp; play activities of children in different socioeconomic groups.</li> </ul> </li> <li>Survey of child rearing and disciplinary practices in rural/slums and urban settings.</li> <li>Early identification and assessment of Special children.</li> <li>Working in communities for promoting education, health, hygiene, gender-equality, child and human rights, knowledge regarding HIV aids and income generating activities.</li></ol>	facticals  6  6  6

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elderly persons. Interacting with two elderly persons from different demographic profiles. SCIENTIFIC WRITING-II (PRACTICAL) Paper Code: HDF 414 Maximum Marks: 100 Teaching Periods: 1 Practical/week Teaching load: 12 practical per semester To enable students to develop skills in 1. Writing Scientific papers, abstracts, review articles, monographs, dissertations, bibliography 2. Using computer to support scientific writing Definitions - Introduction to the definition of different writing skills: Technical report, scientific paper, abstract, review article, and research note. Exercises - Listing and classification of dissertations available in the library 2. on the basis of topics of dissertation work. Exercises: On the basis of topic identified in the dissertation work, prepare the following: Technical report 2 2 Scientific paper Abstract 2 Research note References: The craft of scientific writing by Michael Alley.APA: Publication manual of American Psychological Association - 3rd edition, Washington, 1984. Robert AD, Barbara G, How to write and publish a scientific paper: 7th edition, Greenwood, 2. Martha D, Kaaron JD, Marion D, Scientific papers and presentations, 3rd edition, Elsevier, China, 3. 2012. William S, White E, Rogell A, The elements of Style, 4th edition, Pearson Education Limited, 4. Harlow, 2014. Michael A, The craft of scientific writing, Springer publishers, 1998. DISSERTATION II (PRACTICAL) Paper Code: HDF 415 Maximum Marks:100 Teaching Periods: 3practicals/week Teaching Load: 36Practicals/Semester Objectives: 1. To enable student to write & present thesis 2. To impart systematic and practical knowledge of research & its applied aspects 3. To develop scientist quality in student Laste Megis

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	others	* .	1 · · · · · · · · · · · · · · · · · · ·				
	Thesis writing and presentation I		•				4
2.	Introduction		· • •			· ·	4
3.	Review of literature				•		. 4
4.	Materials and methods					1	4
5.	Result and discussions					. }	2
6.	Thesis writing and presentation II		• • • •			·	2
7.	Conclusion						2
8.	Summary				•		2
9.	Bibliography		•			* * }	2
0.	Annexure	•	**			- 1	2
1.	Writing and submission of one research pa	per based	l on conducted	researc	h findi	ings	4
		-			4.		
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Alenda

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# UNIVERSITY OF RAJASTHAN JAIPUR SYLLABUS

SCHEME OF EXAMINATION AND COURSE OF STUDY

# FACULTY OF SCIENCE M.Sc HOME SCIENCE (SEMESTER SCHEME) DEVELOPMENT COMMUNICATION AND EXTENSION

M. Sc. (I and II Semester) Examination, 2015-206

M. Sc. (III and IV Semester) Examination, 2016-207

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# M.Sc. Home Science Development Communication and Extension

**Subject Code: DCE Course Category** 

**CCC:** Compulsory Core Course

**DIS: Dissertation** 

Contact Hours per week

L: Lecture
T: Tutorial
P: Practicals

**ECC: Elective Core Course** 

**SSECC: Self Study Elective Core Course** 

### M.Sc. HOME SCIENCE

First and Second Semester Scheme Examination, 201 Third and Fourth Semester Scheme Examination, 201

### Scheme of Examination:

- 1. Each theory paper EoSE shall carry 100 marks The EoSE will be of 3 hours duration. Part 'A' of the theory paper shall contain 10 Short Answer Questions of 20 marks, based on knowledge, understanding and applications of the topics/texts covered in the syllabus. Each question will carry two marks for correct answer.
- 2. Part "B" of paper will consist of four questions as suggested below except in cases where a different scheme is specified in the syllabus.
  - First question will contain 6 parts out of which 4 to be answered carrying weightage of 5 marks each. Word limit for each answer will be 50-70 words.
  - There shall be 3 questions (with internal choice) of 20 marks each. The word limit for each answer will be 1000 words.
- 3. Each laboratory EoSE will be of four/six hours duration and involve laboratory experiments/exercises, and viva-voce examination with weightage in ratio of 75:25.

### **Course Structure:**

The details of the courses with code, title and the credits assigned are as given below.

### Abbreviations used:

### Course category:

CCC: Compulsory Core Course ECC: Elective Core Course

SSECC: Self Study Elective Core Course SSCCC: Self Study Compulsory Core Course

DIS: Dissertation

### **Contact hours**

L: Lecture

T: Tutorial

P: Practical

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s. No`	Subject Code	Course title	Category	Credit		ntact ] per we	-	Du	OSE ration ours)
					L	Т	P	Th.	P
1.	DCE 101	Research methodology	CCC	4	4	0	0	3	0
2.	DCE 102	Community organization and extension	CCC	4	4	0	0	3	0
3,	DCE 103	Advanced development communication	ccc	4	4	0	0	3	0
4.	DCE 104	Entrepreneurship development for women	ECC	4	4	Ó	0	3	0
5.	DCE 105	Indian social environment	SSECC	4.	0	0	0	3	0
6.	DCE 111	Community organization and extension	CCC	4	0	0	6	0	4
7.	DCE 112	Advanced development communication	CCC	4	0	0	6	0	4
8.	DCE 113	Entrepreneurship development for women	ECC	4	0	0	6	0	4
9	DCE 114	Communication skills	CCC	4	0	0	6	0	4

CCC=24, ECC=8, SSECC=4

Total=36 credits

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## **SECOND SEMESTER**

S. No	Subject Code	Course title	Category	Credit	1	tact He er wee		Dur	OSE ration ours)
:					L	т	P	Th.	P
1.	DCE 201	Statistics	ccc	4	4	0	0	3	0
2.	DCE 202	Non formal education	ccc	4	4	0	0	3	0
3.	DCE 203	Extension programme management	ccc	4	4	0	0	3	0
4.	DCE 204	Indian economic environment	ECC	4	4	0	0	3	0
5.	DCE 205	Developmental goals & strategies	ccc	4	4	0	0	3	0
6.	DCE 211	Computer application	CCC	2	0	0	3	0	4
7.	DCE 212	Extension programme management	ccc	6	0	0	9	0	4
8.	DCE 213	Entrepreneurship development for rural women	ECC	4	0	0	6	0	4
9	DCE 214	Contemporary development issues in home science	SSECC	4	0	0	0	0	4

**CCC=24, ECC=8, SSECC=4** 

Total=36 credits

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DCE THIRD SEMESTER

S. No	. Subject Code	Course title	Category	Credit		tact H		Dur	OSE ration ours)
					L	T	P	Th.	P
1.	DCE 301	Training process and methods	CCC	4	4	0	0	3	0
2.	DCE 302	NGO management	CCC	4	4	0	0	3	0
3.	DCE 303	Mass media for Development	CCC	4	4	0	0	3	0
4.	DCE 304	Public health and nutrition	ECC	4	4	0	0	3	0
5.	DCE 311	Training process and methods	ECC	4	0.	0	6	0	4
6.	DCE 312	NGO management	ECC	4	0	0	6	0	4
7.	DCE 313	Mass media for Development	CCC	4	0	0	6	0	4
8.	DCE 314	Scientific writing-I	CCC	2	0	0	3	0	4
9	DCE 315	Dissertation-I	CCC	6	0	0	9	0	4

CCC=24, ECC=12, SSECC=0

Total=36 credits

## **FOURTH SEMESTER**

S. No	Subject Code	Course title	Category	Credit	,	itact H oer wee		Dui	OSE ration ours)
				į	L	T	P	Th.	P
1.	DCE 401	Extension administration and supervision	ccc	4	4	0	0	3	0
2.	DCE 402	Information communication technology for development	CCC	4	4	0	0	3	0
3.	DCE 403	Gender sensitization	CCC	4	4	0	0	3	0
4.	DCE 404	Human rights and duties	ECC	4	4	0	0	3	0
5.	DCE 411	Extension administration and supervision	CCC	4	0	0	6	3	0
6.	DCE 412	Information communication technology for development	CCC	4	0	0	6	0	4
7.	DCE 413	Entrepreneurial skills development	ECC	4	0	0	6	0	4
8.	DCE 414	Scientific writing-II	ECC	2	0	0	3	0	4
9	DCE 415	Dissertation-II	CCC	6	0	0	9	0	6

CCC=26, ECC=10, SSECC=0

Total=36 credits

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### SEMESTER-I

### RESEARCH METHODOLOGY (THEORY) Paper Code: 101 Max. Marks: 100 Teaching Hours: 4 hours/week Total Teaching Workload: 48 hours/Semester Objectives: 1. To understand the basic concepts of research methodology. 2. To be able to understand the various steps of research methods. 3. To enable the students to understand various research designs, sampling techniques, methods of collecting data. 4. To enable the students to prepare and present report for dissertation purpose Contents: **UNIT-I** Hours Research purpose and objectives. 1. 2. 4 Definition and identification of research problem, selection of problem, hypotheses, basis assumption and limitation of problem. 3. 6 Review of literature: importance, sources and writing review of literature. 4. 6 Research designs: purpose and types. UNIT-II Technique of sampling- Census and sampling methods, probability and non-5. 4 probability sampling procedures, sample size. 6. 6 Data gathering instruments, measurements and scales, reliability and validity of measuring instruments-Questionnaire, Schedule, Score card, checklist. Methods of collecting data: Questionnaire, interview technique, observation, 7. 4 case study, focus group discussion. UNIT-III Planning, executing and analysis of large scale surveys with special emphasis of surveys in Home science. 9. 4 Presentation and preparation of report for dissertation publication. 10. Bibliography: Importance of method of writing references of book, journals, 6 proceedings and websites. References: 1. Simpson, George, Kafka, Fritz, Basic statistics: a textbook for the first course, Oxford and IBH Publishers, New Delhi, 1977. 2. Taro Yamme, Sampling Theory, Prentice-Hall Publishers, New Delhi 1967. 3. Snedecor and Cocharan, Statistics Methods, Oxford and I.B.H. Publishers, Calcutta, 1968. 4. Gupta S.P., Statistics Methods, Sultan Chand and Co., New Delhi, 2008. 5. Good C.V. and Carter D.E., Methods of Research-Educational Psychological Application, Century Craft, New York 1954. 6. Kerlinger F.A., Foundation of Behavioural Research, Century Craft, New York, 1966. 7. Yound P.V. and Schind C.G., Scientific Social Survey and Research, Prentice Hall, New

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Delhi, 1968.

- 8. Philips B.S, Social Research, Strategy and Tactics, MacMillan, New York, 1976.
- 9. Mussed Paul, Hand book of Research Methods in Child Development, John Wiley & Sons Inc, 1960.
- 10. Devdas R.P. and Kulandaivel, Hand Book of Research Methodology, Sri Ram Krishna mission vidhyalaya, 1971.
- 11. Krishnaswami R.P., Methodology of Research in Social Sciences, 1st edition, Himalaya Publishing house, Mumbai, 1993.

### COMMUNITY ORGANIZATION AND EXTENSION (THEORY)

Paper Code: 102 Max. Marks: 100

Teaching Hours: 4 hours. /week

Total Teaching Workload: 48 hours. /semester

### Objectives:

To enable students to:

- 1. Understand the principles of community organization
- 2. Acquire skill in developing leadership in rural people
- 3. To develop understanding about group behaviour and dynamics for effective communication and group management

### Contents:

**UNIT-I** 

Intro	duction to extension	Hours
1.	Concept of education, non-formal, formal, informal and extension education	
	objectives of extension education	2
2.	Scope of extension education	2
3.	Principles of extension education	2
4.	Process of extension education	2 2
5.	Qualities of an extension worker	2
6.	Philosophy of extension education	2
7.		2
UNIT	2- II	<del></del>
Conc	ept of community, community structure and organization	
8.	Community: concept and characteristics of a community.	3
9.	Structure and organization of different types of communities: tribal, rural and	5
	urban and urban slums	
10.	Community organization: concept, meaning, scope, principles, process and	6
	identifying the role of individuals in the community	
11.	Role and quality of a community organizer	2
UNIT	- III	
Grou	Dynamics	. [
12.	Community organizations - PRIs, cooperatives, women organizations, youth	6
}	organizations and other organizations for community empowerment	
•	Concept of group dynamics - meaning, characteristics, types and functions of	1
13.	groups, stages and process of group formation, group norms and structure	4
	Components of group dynamics - cooperation, competition, communication,	,
	group pressure, group cohesiveness, leadership, managing group and team	
14.	building	
	Leadership - concept, selection of leader, theories and training for developing	4
	leadership	7

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References:

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10.

Localized approach

Folk Media: folk songs, puppetry, drama, songs, stories, etc.

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Promotion of development communication by government: role of government

200

agencies like Akashwani, DAVP, IEC bureau, resource centers, IIMC, songs and drama division etc. References: Melcote. S.R. Communication for Development in the Third World - Theory and Practice, Sage Publications, New Delhi, 1991. 2. Mehta SR (Ed.). Communication and Development: Issuer and Perspective, Rawat Publications, Jaipur, 1992. 3. Modi Bella: Designing Message for Development Communication and Audience Participation- Based Approach, Sage Publications, New Delhi, 1991. 4. Melcote, S.R. and Vallath C. Communication Gap in Development, Rawat Publications, Jaipur, 1992. 5. Sharma S.C. India Communication and Development. Rawat Publications, Jaipur, 1987. 6. Nair K.S. and White Shirley (Eds.). Perspective of Development Communication. Sage Publications, New Delhi, 1993. 7. Dua, M.R. and Gupta V.S. Media and Development, AMIC Singapole and HarAnand Publications, New Delhi, 1994. 8. Reddy A.A. Extension Education, Sri Lakshmi Press, Bapalta, 1971. 9. Directorate of Extension, Extension Education in Community Development, Ministry of Agriculture, Government of India, 1971. 10. Rogers, Everett M. Diffusion of Innovations, Free Press, New York, 1962. 11. Government of India, Directorate of Extension New Delhi: Extension Education of Community Development. 12. Saville. A.H. Extension in Rural Communities, Oxford University Press, 1965. 13. Dahama, O.P. and Bhatnagar, O.P. Education and Communication for Development, Oxford and IBH Publications, 1980. 14. Rudhramarthi, V Extension in Planned Social Change, Allied Publishers, Madras, 164, Oxford and IBH Publishing Co. New Delhi. 1980. 15. Govind, S. Tamilsalvi, G. and Meenambigai, J. Extension Education and Rural Development, Agrobios, 2010. 16. Naurla, U. Handbook of Communication, Models, Perspectives, strategies, Vishal, Enclave, Opp. Rajouri Garden, New-Delhi, 2006. ENTREPRENEURSHIP DEVELOPMENT FOR WOMEN (THEORY) Paper Code: 104 Max. Marks: 100 Teaching Hours: 4 hours. /week Total Teaching Workload: 48 hours. /semester Objectives: To enable students to: 1. Develop understanding of enterprise 2. Develop understanding about entrepreneurial growth 3. To understand the various infrastructures for employment and income generation. 4. Acquire skills in planning project proposals Contents: UNIT-I Entrepreneurship Hours Concept, growth, role and factors affecting entrepreneurial growth in India Women entrepreneurship - status, categories, challenges, entrepreneurial

2.

opportunities in different sectors,

Entrepreneurship development programmes

UNIT		
Enter	rprise establishment	<del>,</del>
4.	Essentials of enterprise setting	
	Drafting of project proposal.	2
	Insurance.	1
	Registration.	3
	Support Systems: financial and non-financial	2
	Enterprise feasibility and viability – technical, financial, social	_
5.	Legal aspects	•
	Business and industrial laws.	1
•	• Taxation.	1
	Enterprise implementation and monitoring.	1
	Enterprise growth and development : expansion and diversification	2 2
	Enterprise failure: causes and remedies	4
YENTYO	[- III]	·
	agement of Enterprise	
6.	Finance	<del></del>
0,	Maintenance of essential account records	2
÷, ,		2
,	Costing and pricing     Profit and loss calculation	2 2 1
	Auditing and preparation of balance sheet	î
7.	Personnel: organizing worker for better performance: basic principles and	5
<i>/</i> •	techniques.	
8.	Marketing, packaging and storing:	.
	Marketing, advertising and salesmanship, quality control and improving	l
	standards	2
	Packaging, labeling and standardization (ISO, BIS, Agmark and Others)	2
	Managing stores	1
Refer	rences :	

- 1. Jain, D. Women's Employment, Possibilities of Relevant Research, Institute of Social Studies, 1980.
- 2. Nayak, J. Pinto, T. and Costa, S. Towards Self reliance, Income Generation for Women, ISI Programme of Women's Development, 1980.
- 3. Mitra, A. The Status of Women, Household and non-Household Economic Activity, ICSSR Programme of Women's Studies III Allied, 1979.
- 4. Bhatt, E.R. Economic Status of Self Employed Women in Garment Industry, Gandhi Majdoor Sevalaya, Ahmedabad, 1979.
- 5. Labour Bureau, Ministry of Employment of Labour, Chandigarh. Study of Women in Selected Industries, 1979.
- 6. Mitra, A. The status of Women-Literacy and Employment, ICSSR Programme of Women's Studies Allied, 1979.
- 7. Paul, J. Kumar, N.J. and Mampilly, Paul J. Entrepreneurship development, Himalaya Publishing House, Mumbai, 1996.
- 8. Young, T. L. Planning Project, Sterling Publishers Pvt. Ltd., New Delhi, 1998.
- 9. Young, T. L. Implementing Project, Sterling Publishers Pvt. Ltd., New Delhi, 1998.
- 10. Akhouri, M.M.P. Entrepreneurship for women in India, New Delhi, NIESBUD, 1990.

### Periodicals:

1. Yojana, Publication Division, New Delhi.

-j'	INDIAN SOCIAL ENVIRONMENT (THEORY)	
	r Code: 105	
	. Marks: 100	
	hing Hours: 4 hours. /week	
	hing Workload: 48 hours. /semester	
•	ctives:	
	nable students to:	
	. Understand the social structure of India.	
2	Study the social changes taking place and their impact on society.	
Cont	ents:	
UNI	ſ-I	
	al sociology	Hot
1.	Orientation and characteristics of rural and tribal society, rural urban	2
2.	differences.	. 3
3.	Social change: nature, meaning and direction of social change	4
	Impact of urbanization and industrialization on the rural community, factors	۔
4.	contributing to social change, role of women in social change	3
	Dynamics of social changes, urban growth and migration, patterns of migration	. 2
5.	and issues related to urbanization	. 4
6.	Planned social change, concept, perspective and thrusts	3
	Social issues- education, employment, population, health and sex ratio	
UNI		
	ral Resource Management	
7.	Water- availability, utilization and conservation	-4
8.	Land- availability, utilization and conservation	4
9.	Forest- availability, utilization and conservation	. 4
10.	Role of women in natural resource management	3
UNIT	- III	_ <u>_</u>
	ulture in India	
11.	Status of agriculture in Indian economy	2
12.	Problems of agriculture- cause of low agricultural productivity, defects and	6
	problems of agriculture marketing, government policies of improving marketing.	
13.	National and state schemes for increasing food production – agriculture, animal	8
	husbandry, fisheries, concept of green, blue, white and yellow revolutions	
	intensive production schemes	
Refer	ences:	
1.	Singh, K. Principles of Sociology, Prakashan Kendra, New-Delhi, 20011.	
	D'Souza, V.S. Social Structure of a Planned City - Chandigarh, Orient Long	man
	Limited, Bombay, 1968.	
3.	Bergel, E. Urban Sociology, McGraw Hill, New York, 1955.	
	COMMUNITY ORGANIZATION AND EXTENSION (PRACTICAL)	
Paper	Code: 111	
	Marks: 100	
	ning Hours: 2 practicals/week (3 hours/practical)	
Leac	ning Workload: 24 practicals /semester	
	etives ;	

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community organizations.  Contents	
Practicals	•
Study of the following community organizations in the locality with special reference	<u> </u>
to their structure, activities/programmes, strengths and weaknesses:	
	4
<ol> <li>Self help Groups</li> <li>Youth organizations</li> </ol>	4
3. Non Government Organizations	
4. Caste based organizations	2 3
5. Local unit of ICDS (Aanganwari)	3
6. Panchayati Raj Institutes	4
7. Public health centers	4
ADVANCED DEVELOPMENT COMMUNICATION (PRACTICAL)	
Paper Code: 112	
Max. Marks: 100	
Teaching Hours: 2 practicals/week (3 hours/practical)	
Teaching Workload: 24 practicals //semester	•
Objectives:	
The students should able to:	
	•
1. Apply participatory approach for need assessment to plan a extension programm	ie.
2. Design and prepare software material for planned extension programme.	
3. Acquire skills in puppetry and social drama.	
Contents:	
Practicals	
1. Use of participatory approaches for need assessment	6
2. Planning village based extension programmes	2
3. Design and prepare software material for planned extension programme	6
	8
4. Develop skills in puppetry	
Develop a story	1
Preparation of puppets	ŀ
Puppet play	
5. Develop skills in social drama	2
ENTREPRENEURSHIP DEVELOPMENT FOR WOMEN- I (PRACTICAL	<u> </u>
Paper Code: 113	1)
Max. Marks: 100	
Teaching Hours: 2 practicals/week (3 hours/practical)	
Total Teaching Workload: 24 practicals /semester	
Objectives:	
To develop entrepreneurial skills among students.	
to do totop our obtonourus crano among oracono.	
Contents:	cticals
1. Visit to a micro enterprise and preparation of a report.	3
2. Special lectures by the representatives from the various agencies especially	6
financial agencies.	
3. Visits to marketing agencies.	4
4. Study of the registers and records maintained by entrepreneurs.	3
5. Prepare a project report	. 8
COMMUNICATION SKILLS (PRACTICAL)	
Paper Code: 114	@
Max. Marks: 100	1

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Afryle

m. Agrawal:

Peaching Hours: 2 practicals/week (3 hours/practical) otal Teaching Workload: 24 practicals /semester The students should be able to: 1. Develop and apply skills of oral presentation, discussion, writing composition, CV, minutes reports. 2. Read and write notes from different sources. 3. Search and interpret information from various sources. 4. Use appropriate skills in interpreting and answering oral and written questions in tests, examinations and other contexts. Contents **Practicals** 1. Searching Information 3 Using library and internet. 1 Using a dictionary and encyclopedia, thesaurus. 2. Taking and making notes 1 Notes taking skills. 1 Notes making skills 3. Reading skills: 1 Skimming and scanning skills. 1 Intensive and extensive reading. 2 Copying with unfamiliar words. 4. Writing skills Referencing skills. 1 1 Composition writing. 2 Writing curriculum vitae (cv) and minutes 5. Oral presentation-Treatment of reports for presentation. 2 Practice in using media in oral presentation 3 2 7. Importance of feedback - during and after communication 3 References: 1. Harmer, J. The Practice of English: Language Teaching, Longman Group, UK, 1991. 2. Raman, M. and Sharma, S. Technical Communication- Principles and Practice, Oxford University Press, New Delhi, 2004. 3. Barker, A. Improve Your Communication Skills - KoganPagge India Pvt. Ltd, New Delhi,

5. Selly, J. The Oxford Guide to Writing and Speaking, Oxford University Press, New Delhi, 2004.

### SEMESTER II

4. Doff, A. and Jones, C. Language in Use (Upper - Intermediate), Cambridge University

### STATISTICS (THEORY)

Paper Code: 201 Maximum marks: 100

Teaching Hours: 4 hours/week

Total Teaching Workload: 48 hours/week

Press, First South Asian Edition, 2004.

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	ctives	
	. To understand the basic concepts of statistics.	
2.	. To enable the students to understand various types of statistical tools an	id the
· · · · · · · · · · · · · · · · · · ·	interpretation	<u> </u>
Cont		
UNI		Hours
I.	Meaning and scope of Statistics.	- 1
2.	Classification and Tabulation	2
3.	Measures of Central Tendency and Dispersion (Mean Median, Mode, Quartiles,	7
:	Range and Standard Deviation).	
4.	Graphic and Diagrammatic representation of data (Frequency, Histogram,	6
	Graphs, Bar-diagram and Pie charts).	
UNI	Г-Ц	
5.	Elementary ideas on Probability (Simple Probability) Skewness and Kurtosis	7
:	definition. Elementary ideas of random variable and its density function	
	(Binomaial, Poison, Uniform, Normal varieties, Normal distribution and its	
:	properties, Use of Normal probability tables).	
6.	Elements of testing a Statistical Hypothesis- Formulation of the problem.	6 .
	Definition of type I and II errors. Level of Significance, t-test, Z-test.	· .
7.	Design of Experiment: Analysis of Variance	3
UNIT	r-m	
8.	Correlation and Regression: Correlation and its interpretation. Product moment	8
	and Rank order. Correlation Coefficient Regression Equations (without	. •
	derivation) and its interpretations, use of prediction.	
9.	Non-parametric Inference: Sign, Mann Whitney and Chi square test (as	6
	goodness of fit and independence of attributes in 2*2 and r*c contingency	•
	tables).	
10.	Use of computer of statistical analysis using SPSS.	2
Refer	ences:	
1.		xford
	and IBH Publishers, New Delhi, 1977.	
2	Taro Yamme, Sampling Theory, Prentice-Hall Publishers, New Delhi 1967.	
3.	Snedecor and Cocharan, Statistics Methods, Oxford and I.B.H. Publishers, Cald 1968.	cutta,
4	Gupta S.P., Statistics Methods, Sultan Chand and Co., New Delhi, 2008.	
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- 5. Good C.V. and Carter D.E., Methods of Research-Educational Psychological Application, Century Craft, New York 1954.
- 6. Kerlinger F.A., Foundation of Behavioural Research, Century Craft, New York, 1966.
- 7. Yound P.V. and Schind C.G., Scientific Social Survey and Research, Prentice Hall, New Delhi, 1968.
- 8. Philips B.S, Social Research, Strategy and Tactics, MacMillan, New York, 1976.
- 9. Mussed Paul, Hand book of Research Methods in Child Development, John Wiley & Sons Inc, 1960.
- 10. Devdas R.P. and Kulandaivel, Hand Book of Research Methodology, Sri Ram Krishna mission vidhyalaya, 1971.
- 11. Krishnaswami R.P., Methodology of Research in Social Sciences, 1st edition, Himalaya Publishing house, Mumbai, 1993.

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University of Rajasthan

### NON FORMAL EDUCATION (THEORY) Paper Code: 202 Max. Marks: 100 Teaching Hours: 4hours. /week Total Teaching Workload: 48 hours. /semester Objectives: To enable students to 1. Understand the need for adult education and functional literacy. 2. Acquire knowledge and skills in organizing adult education and functional literacy programmes. Contents: UNIT-I Non Formal Education Hours Concept: Concepts of formal, informal, non-formal, continuing and social 1. education, functional literacy UNESCO's definition. Genesis of the Non-formal Education Programme in India: Historical 2. 5 development of the non formal education programmes in India, growth of the programme. NLM framework and Norms: Scheme of assistance to voluntary agencies by the Govt. of India. Agencies involved: Role of Indian Adult Education Association, Indian 3. University Association for Continuing Education, State Resource Centre, Universities, Role of the Department of Education and Adult Education in the Centre and States. NLM authority, SLM authority, Jan Shikshan Sansthan. UNIT- II Development of Curriculum and Materials for Adults Curriculum of Non-formal Education: Preparation of need based curriculum for 4. different kinds of adult education and functional literacy programmes for adults. Adult learning- meaning, assumption, characteristics and conditions Materials for adult education- primers, teacher guides, work books and 5. 4 6. instructional aids. Preparation, selection and use of different learning materials 8 for various target groups. Use of various extension teaching methods and audio visual aids, relevance of digital primer in adult education for India and the region, importance of the use of folk media. UNIT-III Organization of Non-formal Education Programmes Steps in organizing educational programme for adults, planning and execution of 12 the programme involving various government and non-government agencies and institutions. Contemporary Programmes by government of India, Bharat Sakshar 4 Related Experience -1. Assessing the educational status in a nearby village/slum and locating needs. 2. Visit to programmes of adult education and functional literacy in the locality. 3. Learning the techniques of motivating adults. 4. Practice in the preparation and use of primers, work books and instructional aids. 5. Evaluation of a functional literacy program References: 1. Kumar, O.P. A Guide to literacy and Adult Education. Literacy House, New Delhi, 1979. 2. Rao, V.K.R.V. Adult Education and National Development: Concepts and Practices in India. Ministry of Education and Social Welfare, New Delhi, 1974. 3. Mohsini, S.R. Adult and Community Education: An Indian Experiment. Indian Adult

Education Association New Delhi, 1973.

- 4. Bordia, A. Farmer's Training and Functional Literacy, Indian Adult Education, New Delhi, 1975.
- 5. Devadas, R.P. Planning and Programme Adult Education. University of Madras, Monograph.XIV, Chennai, 1978.
- 6. Gupta, M.R. Manual for Adult Literacy Teachers, Indian Adult Education Association, New Delhi, 1974.
- 7. Shah, A. and Bhan S. (Eds.). Non Formal Education and the NAEP, Oxford University Press, New Delhi, 1980.
- 8. Borida et al (Eds.) Adult Education in India, Nachiketa Publishers, New Delhi, 1973.
- Rose, M.G. Community organization, theory and principles, Harper and Row, New York, 1955.
- 10. Gangrade, K.D. Community organization in India, Popular Prakashan, Mumbal, 1971.
- 11. Dahama O.P. and Bhatnagar O.P. Education and Communication for Development. Oxford and IBH Publishing. New Delhi. 1980

### Periodicals:

- 1. Indian Journal of Adult Education. Indian Adult Education Association, New Delhi.
- 2. Social Change, Council of Social Development, New Delhi.
- 3. Indian Journal of Extension Education, Indian Society of Extension, Education, New Delhi

### EXTENSION PROGRAMME MANAGEMENT (THEORY)

Paper Code: 203 Max. Marks: 100

Teaching Hours: 4hours. /week

Total Teaching Workload: 48 hours. /semester

### Objectives:

### To enable students to

- 1. To understand the issues of extension and development.
- 2. To be aware of the aspects influencing design of development programmes.
- 3. To understand the relationship between the aspects and procedures involved in programme planning, monitoring and evaluation

### Contents: **UNIT-I Extension Management Process** Hours Extension Management Definition, Concept and Scope of Extension Management Models and Principles of management 2. Process of management: Planning, Organizing, Coordinating, Staffing, 7 Directing, Controlling (POSDCORB) 3. Decision making - Concept, types of decisions, styles and techniques of decision 5 making, steps and guidelines for making effective decisions.

## Unit II:

### Programme planning for effective Management

- Need: Types of Need, Methods of ascertaining the Felt Needs, Need assessment techniques like Participatory Rural Appraisal, Rapid Rural Appraisal and CONA (Community Oriented Need Assessment). Programme Planning: Concept and nature of programme planning process

Programme implementation and follow up

Assis.

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Y	Programme implementation: aspects influencing monitoring and control, linkage with other agencies, problems in implementation, feedback system - role of	4
77	management information systems	
7.	Evaluation: Meaning, objectives, scope and purpose of evaluation, types, steps,	4
	tools and techniques for evaluation.	
8.	Follow up: Need, methods of follow up, making the programme self sustaining	3
}	Report writing and documentation: Preparing a project report: various	100
9.	approaches, need and procedure for reporting and recording.	5_
Refer	ences:	

- Burkley, S. People First: A Guide of Self Reliant Participatory Development. London: Zed Books, New Delh,. 1993.
- 2. The Right to Development, Centre for Development and Human Rights, New Delhi,
- 3. Drez, J. and Sen, A.K. India-Economic Development and Social Oxford University Press, New Delhi, 1995.
- 4. Edwards, M. and Hulme, D. Making a Difference: NGOs and Development in a Changing World. Earthscen Publications Ltd. London, 1992.
- 5. Edwards, M. and Hulme, D. Beyond the Magic Bullet: NGO Performer and Accountability in the Post Cold War World. Kumarin Press, West Hartford, Connecticut, 1996.
- 6. Fischer, J. NGOs and Political Development of the Third World. Kumarin Press, West Hartford, Connecticut, 1998.
- 7. Grayson, D. and Hodges, A. Corporate Social Opportunity. Greenleaf Publishing Ltd. Sheffield, U.K., 2004.
- 8. Gedam, R. Development planning Origin and Growth. Akashdeep Publications, New Delhi.1991.
- Korten D.C. People Centered Development Greeting to the 21 *Century, Kumarin Press, West Hartford, Connecticut, 1990.
- 10. Kumar S. Methods for Community Participation. Sage Publications, New Delhi, 2002.
- 11. Padaki. V and Vaz M. Institutional Development in Social Intervention. Sage Publications, New Delhi, 2003
- 12. Pareek U. Behavioral Process in Organizations. Oxford and IBH. New Delhi, 1989.
- 13. Reidar, D. Evaluating Development Programme and Projects. Sage Publications, New Delhi, 2004.
- 14. Singh, K. Rural Development Principals Policies and Management. Sage Publications. New Delhi, 1999.
- 15. Govind, S., Tamilselvi G. and Meenambigai, J., Extension Educational and Rural Development, Agrobios, Jodhpur, 2011.

INDIAN ECONOMIC ENVIRONMENT (THEORY)

Paper Code: 204 Max. Marks: 100

Teaching Hours: 4hours. /week

Total Teaching Workload: 48 hours. /semester

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### Objectives: To enable students to: 1. Understand the economic structure of communities in India. 2. Become aware of the problems of Indian economy and linkages with sustainable development and efforts taken to improve the rural economy Contents: UNIT-I Economic Environment Hours Concept- micro and macro economics Classification of economics - capitalistic, socialist, mixed economy, Close 2 2. and open economy. 3. Globalization - Impact of globalization on rural economy. 3 4. Introduction to Rural Economic Structure: Basics of rural economic structure, changing of Indian economy, nature and significance of agriculture in the economy, role of women in farming UNIT-II Agricultural markets and Employment Agriculture marketing- Methods of sale, defects and problems of marketing, 6 Government Policies improving marketing. Employment: Occupational structure in India, primary and subsidiary 5. 10 Occupations, problems of unemployment, measures taken by the government to solve the problem of unemployment. Related government programmes. UNIT-III Rural economic structure: Rural Industry: Cottage and small scale industry, role in the economic 6 development, Gandhian economic concept. Scope for self sufficiency, decay of cottage industries - causes and effects. 7 Rural Credit: Meaning, importance and need of credit for a rural family. 7. Agencies supplying credit to rural families and practical difficulties in securing and repaying credit, Role of bankers and micro finance institutions. 6 Cooperation: Principles of Cooperation, progress of cooperative movement in India, types of cooperatives, cooperation in the development of the weaker References: 1. Dutt. R.M. and Sundaram, K.P.M. Indian Economy, Niraj Prakashan, New Delhi, 1977. 2. Agrawal, A.N. Indian Economy - Problems of Development and Planning, New Age

- Publishers, New Delhi, 1983.
- 3. Dhingra, I.C. The Indian Economy Resources planning Development and Problems, Sultan Chand & Sons, New Delhi, 1981.
- 4. Sundram, K.P.M. Introduction to Indian Economy. Sultan Chand & Sons, New Delhi, 1983.
- 5. Dhingra, T.C. Agricultural Economy of India. Sultan Chand & Sons, New Delhi, 1983.
- 6. Indian-year books, Publication Divisions, Ministry of Information and Broadcasting. Periodicals:
  - 1. Yojana, Publication Division, New Delhi.
  - 2. Kurukshetra, Publication Division, New Delhi

### DEVELOPMENTAL GOALS AND STRATEGIES

Paper Code: 205 Max. Marks: 100

Teaching Hours: 4hours. /week

Total Teaching Workload: 48 hours. /semester

M Agrawal

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	198	
Obje	ctives-	
T 1	nable students to:	
	. Understand the development and indicators of development.	
1	. Understand the concept of sustainable development and developmental polici	es.
		<del></del>
Unit		**
Conc	ept and Historical Overview of Development	Hours
1.	Development: Meaning, Definition, Evolution, Concept, Significance,	5
	Functions and Dysfunctions, and Paradigms of Development	
2.	Theories of Development	3
3.	Goals and Challenges of development	1
4.	Millennium Development Goals	2
5.	Models of Development	4
	Economic Growth Model	
1	Social Equity Model  Participate of Model	1
2	Participatory Model     Indicators of Development – Human Development Index (HDI), Gender	
6.	Empowerment Model, Human Poverty Index etc	2
Unit		L
l .	ainable Development	
7.	Sustainable Development: Concept, philosophy, goals and Challenges	
8.	Dimensions of sustainable development	4
9.	Indicators of sustainable development	4
	International commitments towards sustainable Development	4
10.	<u> </u>	4
Unit-		
	lopment Programmes and Policies  Need of planning in India and role of planning commission and National	
11.		2
40	Development Council	
12.	Five Year Plans of India	7
13.	History and assessment of Poverty Alleviation Programmes in India	2
14.	Role of Panchayati Raj Institutions (PRIs) in rural development	2 2
15.	Flagship Programmes of Government of India	2
	ences:	
1.	Agrawal, A.N. Indian Economy – Problems of Development and Planning, Publishers, New Delhi, 1983.	New Age
2.	Dhingra, I.C. The Indian Economy – Resources planning Development and Sultan Chand & Sons, New Delhi, 1981.	Problems,
3.	Sundram, K.P.M. Introduction to Indian Economy. Sultan Chand & Sons, N 1983.	ew Delhi,
. 4	Dhingra, T.C. Agricultural Economy of India. Sultan Chand & Sons, New Delhi	1093
5	Gedam, R. Development planning – Origin and Growth. Akashdeep Publicati	one Naur
	Delhi, 1991.	1
6.	Korten D.C. People Centered Development – Greeting to the 21 st Century, Kuma West Hartford, Connecticut, 1990	rin Press,
	COMPUTER APPLICATION (PRACTICAL)	

Paper Code: 211
Max. Marks: 100
Teaching Hours: 1practicals /week (3 hours/practical)
Total Teaching Workload: 12 practicals /semester
Objectives:

1. To understand the basic fundaments of computer and role of computer in research

2. To enable the students to handle computer for the purpose of data communic	cation and
internet browsing.	
3. To enable the students to use MS office and basic concepts in SPSS	<del> </del>
Contents:	
Introduction	1
1. Classification of computers and computer memory.	
2. Types of software: Application and System software, Operating System and Ty	pes:
Single user, multiuser.	
Data Communication and Networks	
3. Data communication concept	1
4. Internet, web-e-mails	1
5. Search engines-Enterprises: e-communication and e-collaboration	1
MS Office and its Application	
6. File handling in windows	1
7. MS Word: Text formatting	1
8. MS Excel: Features, various formula and functions	1
9. MS Power Point: Creating presentation and adding effects	
Statistical Software for Social Sciences (SPSS)	
10. Introduction to SPSS: Definition, objectives and features.	1 1
11. Data analysis using SPSS: Data entry, creating variables, switching to data labels	. 1
12. Data analysis: frequencies, recording into different variables, cross tabulation a	
layers.	
References:	
1. Sinha P and Sinha P. Computer fundamental, 6th edition, B.P.B. Publications,	2004.
<ol> <li>Sinha P and Sinha P. Computer fundamental, 6th edition, B.P.B. Publications,</li> <li>Norton P. Introduction to Computers, TAT Mc Graw Hill, 2005.</li> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ra Depot, New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> <li>EXTENSION PROGRAMME MANAGEMENT (PRACTICAL)</li> </ol> Paper Code: 212	
<ol> <li>Sinha P and Sinha P. Computer fundamental, 6th edition, B.P.B. Publications,</li> <li>Norton P. Introduction to Computers, TAT Mc Graw Hill, 2005.</li> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Re Depot, New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> <li>EXTENSION PROGRAMME MANAGEMENT (PRACTICAL)</li> <li>Paper Code: 212</li> <li>Max. Marks: 100</li> </ol>	
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<ol> <li>Sinha P and Sinha P. Computer fundamental, 6th edition, B.P.B. Publications,</li> <li>Norton P. Introduction to Computers, TAT Mc Graw Hill, 2005.</li> <li>Nagar P and Soni M. Computer Fundamental and Introduction to IBM PC, Ra Depot, New Delhi, 2009.</li> <li>Taneubaum. Computer Network, Prentice Hall, New Delhi, 2003.</li> <li>EXTENSION PROGRAMME MANAGEMENT (PRACTICAL)</li> <li>Paper Code: 212</li> <li>Max. Marks: 100</li> <li>Feaching Hours: 3 practicals /week (3 hours/practical)</li> <li>Fotal Teaching Workload: 36 practicals /semester</li> </ol>	
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	•
Select one corporate house and document its extension activities/concerns.	5
Document the agencies providing different resources for extension work.	5
ENTREPRENEURSHIP DEVELOPMENT FOR RURAL WOMEN-II (PRACT	TCAL)
Paper Code: 213	
Max. Marks: 100	
Teaching Hours: 2 practicals /week (3 hours/practical)	•
Total Teaching Workload: 24 practicals /semester	
Objectives:	
The students should be able to:	
1. Assess the entrepreneurial need and available services of rural areas.	•
2. Understand the schemes of rural agencies.	
3. Assess the entrepreneurial possibilities in rural areas.	
Contents:	<del></del>
Assessment of entrepreneurial needs in rural area.	4
2. Availability of services.	
3. Identifying schemes of banks and other agencies in rural area.	3
4. Arranging motivational labortory for entrepreneurship.	3
5. Helping women to prepare the enterprise report in rural area.	4
6. Assessment of entrepreneurial possibilities in rural areas.	4
7. Preparing business plan proposal.	4
CONTEMPORARY DEVELOPMENTAL ISSUES IN HOME SCIENCE (PRACT	ICAL)
Paper Code: 214	
Max. Marks: 100	
Teaching Hours: 2 practicals /week (3 hours/practical)	
Total Teaching Workload: 24 practicals/semester	
Objectives:	
To enable students to:	1.
1. Develop insights regarding the developmental issues of Home Science.	
2. Acquires skills in collecting and organizing subject content on the selected topics.	
Contents:	
Each student will prepare one seminar paper on any one topic from the areas of Home	Calaman
	Science
namely:	
Food and Nutrition	. }
Home Management	
Clothing and textile	.
Human development	
Developmental extension	
The seminar paper will be prepared by the students. The students are requested to refer	books,
mono graphs, reports and websites and later professional journals.	

Understand the concept of training, process, and design component of training.
 Develop skills regarding training management.

Objectives:

To enable students to:

Paper Code: 301
Max. Marks: 100
Teaching Hours: 4hours. /week
Total Teaching Workload: 48 hours. /semester

SEMESTER III

TRAINING PROCESS AND METHODS (THEORY)

detras (Acad I)

Uni	<b>[-1</b> ]	A 100 CO.
Ide	entification of training needs	Hours
1.	Training- definition, concept, importance and features	3
2.	Difference between education and training	2
3.	Need Assessment	2
4.	Types - institutional, non institutional, orientation, refresher and in-service	5
1	training	1
5.	Experiential Learning cycle of Training	3
6.	Elements of effective training	2
-		L
	t-II	
	erational Aspects of Training	
7.	Phases of training- Pre training, training and post training	2
8.	Elementary idea of training methods	. 4
9.	Designing training schedule	2
10.	Designing lesson plan for training	. 1
11.	Training evaluation	2
12.	Management of training programme Physical arrangement- Selection of	4
12.	participants, selection of resource person, aids, equipment, transportation,	
	finance and monitoring of training.	
13.	Organizational factors	2
	t- III	
	•	
	port structure for Training	
14.	Funding agencies- ATMA, NABARD, RUDA, CAPART, RMoL etc	7
	- I - The same of the same same same same	7
15.	Training Institutes- NIPCCD, RUDSET, NIRD, SIRD, KVK etc	7
Refe	erences:  1. Dahama O.P. and Bhatnagar O.P. Education and Communication for Devel	
Refe	erences:	opment. T. Bell. aluation 83. Madras, tors on
Refe	1. Dahama O.P. and Bhatnagar O.P. Education and Communication for Devel Oxford and IBH Publishing, New Delhi, 1980.  2. Arthur, Winfred A., Jr., Winston Bennett Jr., Pamela S. Edens, and Suzanne "Effectiveness of Training in Organizations: A Meta-analysis of Design and Ev. Features." Journal of Applied Psychology. 234-245. April, 2003  3. Desi, D.K. Management in Rural Development. Oxford and IBH, New Delhi, 1945. Krishna, M. Project Planning in India, HPA, New Delhi, 1983.  5. Devadas, R.P. Planning and Programme Adult Education. University of Monograph.XIV, Chennai, 1978.  6. Reddy A.A.: Extension Education. Sri Lakshmi Press, Bapalt, 1971.  7. Bhatti, M. and Kaur, S. "The Role of Individual and Training Design Fact Training Transfer." Journal of European Industrial Training, 34 (7), 656-672. 2003. Allan, D. P. Managing the Training and Development Function. Second Edition, Jaico Publishing House, Mumbai, 1995.  NGO MANAGEMENT (THEORY)  2. Code: 302  2. Marks: 100  2. Ching Hours. /week	opment. T. Bell. aluation 83. Madras, tors on
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Refe	Perences:  1. Dahama O.P. and Bhatnagar O.P. Education and Communication for Devel Oxford and IBH Publishing, New Delhi, 1980.  2. Arthur, Winfred A., Jr., Winston Bennett Jr., Pamela S. Edens, and Suzanne "Effectiveness of Training in Organizations: A Meta-analysis of Design and Every Features." Journal of Applied Psychology. 234-245. April, 2003  3. Desi, D.K. Management in Rural Development. Oxford and IBH, New Delhi, 1944. Krishna, M. Project Planning in India, HPA, New Delhi, 1983.  5. Devadas, R.P. Planning and Programme Adult Education. University of I Monograph.XIV, Chennai, 1978.  6. Reddy A.A.: Extension Education. Sri Lakshmi Press, Bapalt, 1971.  7. Bhatti, M. and Kaur, S. "The Role of Individual and Training Design Fact Training Transfer." Journal of European Industrial Training, 34 (7), 656-672. 2003. Allan, D. P. Managing the Training and Development Function. Second Edition, Jaico Publishing House, Mumbai, 1995.  NGO MANAGEMENT (THEORY)  Per Code: 302  Marks: 100  Ching Hours: 4hours. /week  1 Teaching Workload: 48 hours. /semester	opment. T. Bell. aluation 83. Madras, tors on
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Process of NGO establishment  4. Start up of NGOs-Constitutional requirements, registration, infrastructural creation.  5. Creation of funds.  6. External and Internal – donor agencies- national and international.  7. Strategic Planning and implementation of development programmes in different areas of operation.  UNIT – III  Government Supports for NGOs  8. Agencies involved in training of NGOs-NIRD, NIPCCD, CAPART, CARPET etc.  9. Government policies and programmes for NGOs.  10. Documentation and Report writing  References:  1. Bhatia, A. Women's Development and NGOs. Published by Rawat Publications, Jaipur, 2000.  2. Fisher, J. Nongovernments: NGOs and the Political Development of the Third World,
4. Start up of NGOs-Constitutional requirements, registration, infrastructural creation.  5. Creation of funds.  6. External and Internal – donor agencies- national and international.  7. Strategic Planning and implementation of development programmes in different areas of operation.  UNIT – III  Government Supports for NGOs  8. Agencies involved in training of NGOs-NIRD, NIPCCD, CAPART, CARPET etc.  9. Government policies and programmes for NGOs.  10. Documentation and Report writing  References:  1. Bhatia, A. Women's Development and NGOs . Published by Rawat Publications, Jaipur, 2000.
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Kumarian Press, West Hartford, 1998.
3. Thomas, A. Carr, S. and Humphreys, D., Environmental Policies and NGO Influence.
Land Degradation and Sustainable Resource Management in Sub-Saharan Africa.
Routledge, London, 2001.
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programmes 28/ dated 18-3-2014.
5. Developmental prpgrammes in India, http://appscmaterial.blogspot.in/2010/08/india-
development-programmes.html, dated 18-3-2014.
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Sector, National Commission for Enterprises in the Unorganised Sector, GOI. 2007.
7. Shahrbanou, T. State HDRs in India: Documentation/Assessment/Evaluation and
Recommendations, August 2005, New Delhi: UNDP, 2005.
MASS MEDIA FOR DEVELOPMENT (THEORY)
Paper Code: 303
Max. Marks: 100
Teaching Hours: 4hours. /week
Total Teaching Workload: 48 hours. /semester
Objectives:
To enable the students to:
1. Understand mass media.
2. To develop understanding about different types of media.
3. Understand the significance of mass media for extension and national development.
4. Understand the special characteristics of mass media.
5. Develop skills in writing, editing and producing scripts for mass media
Contents:
Unit-I
Introduction to Mass media Hours
1. Concept, Meaning, types, characteristics and scope of mass media in national 4
development.
,
Characteristics, relevance and impact of the following specific media:
2. Characteristics, relevance and impact of the following specific media:  • Print media- writing for print media, types, role in modern media,  2
Characteristics, relevance and impact of the following specific media:

Short

Appratis

Mayousal July Magazal July (10)

Assit. Surgistrar (Acad-I)

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	rural development	1.750
•	• Reporting and editing: Reporting types, qualities of good reporte	rs. 2
	Editing-Role of the editor, editorial writing, symbols, cross-culture	
	perspectives	
3.	Photo journalism- principles and practices.	2
4.	Public speech- Principles of writing and delivery of public speech	3
Unit -		
	ronic media	
5.	Electronic media- introduction and classification	2
б.	Radio journalism-types and brief history of broadcast media, role in modern	4
	India, characteristics, functioning and impact on society.	
7.	Writing for the radio: characteristics, reach and role of radio, types of radio	2
	programmes-language style, scripting for radio features.	
8.	Reporting for radio-accuracy, balance and credibility, types of reporting for	2
	radio news and programmes.	1: 17
9.	Editing and anchoring of radio programmes.	3
	Radio production: Content and style-digital, audio mixing, recording and	3 2
	aesthetics	2
11.	Advertising and social marketing: Concept, characteristics, and	
	role of advertising and social marketing.	2
Unit-I	<u></u>	111 123
	ting for Television	, 11 , 29,
12.	Television journalism -television and films-history, reach and role and impact	t 4
,	on society. Writing for T.V. programmes-differences from print/radio	377
	information sources, selection, editing and compilation of information for T.V	/] · [ . [ . [
	programmes.	1.
13.	Scripting for T.V. programmes-style, language and skills.	2
14.	Reporting: Field reporting, compiling and composing, accuracy, balance and	2 2
	credibility.	
15.	Presenting T.V. programmes: types, style, anchoring, live TV broadcasting.	le i
	Production of TV news and programmes	1
	Government policies and regulation for mass media in India	3
	nces:	<del></del>
	Deflear and Dennis. Understanding Mass Communication, Houghton Mifflin	co. 4th ed
	Boston, 1983.	00. 7 04.
	Dhama, O.P. and Bhatnagar. O.P. Education and Communication for Dev	elonment
-	oxford and IBH Publishing Co., New-Delhi, 1987.	Pittotit,
- 3.	Dominic. The dynamics of Mass Communication, Mc Graw Hill Publishing (	o New-
, J.	Delhi, 3 rd ed, 1990.	Jo., 110W-
	Rao, B. fluvision for rural development. Concept Publishing Co., New-Delhi, 1	002
	Joshi. V. Mass Communication and Media. Annual Publications Pvt. Ltd., No.	
	1999.	w-Deini,
	Raidu, C.S. Communication, Himalaya Publishing House, Mumbai, 2009,	l
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PUBLIC HEALTH AND NUTRITION (THEORY)

Harry

Max. Marks: 100
Teaching Hours: 4hours. /week
Total Teaching Workload: 48 hours. /semester

Paper Code: 304

M. Agrawal Sulm 222

Agent. Registrur (Acad-1)
University of Rajasinan K
JAIPUR

# bjectives:

his course will enable the students to:

- 1. Gain insight into national nutritional problems, and national and international contribution towards nutrition improvement in India.
- 2. Development skills in organizing and evaluating nutrition projects in the community.
- 3. To be familiar with various approaches to public health nutrition intervention programmes and policies.
- 4. Gain knowledge and skills to develop nutritious recipes for vulnerable groups.

	dam knowledge and skills to develop in-distance resipes for value and groups.	
	tents:	
UNI		
Pub	lic Health and Nutrition	Hour
1;	Concept and scope of public health and nutrition care in community	2
2.	Health care system and levels	2
3.	National health policy, national nutritional policy	2
4.	Public health	2
į <b>5</b> .	Multiple cases of public health and nutritional problems	4
6.	Approaches to solving nutritional problems	2
7.	Storage and food distribution	4
8.	Application of science and technology to improve food production and supply	2
9.	Food and nutrition security	2
10.	Concept and India's food and security system	2 2 2
UNI	T-II	
Pop	ulation dynamics	
11.	Population structure and trends	4
12.	Inter relationship between nutrition and quality of life	3
13.		3
14.	National population policy	2
UNI	r-m	<u> </u>
Publ	ic Health Aspects of Malnutrition	•
15.	Under nutrition and over nutrition	2
16.	Deficiency of macro and micro nutrients	3
17.	Life Style disorders	4
18.	Economic of malnutrition: malnutrition and its economic consequence	3
Refe	rences:	<del></del>

- 1. The management of nutrition in major emergencies. United Nations High Commissioner for Refugees, World Health Organization Geneva, 2000.
- 2. Park, K. Text book on Preventive and social medicine, 20th edition, Banaridas, Bhanot, Jabalpur, 2007.
- 3. Margaret D. Simko, Catherine Cowell, Judith A. Gilbridge. Nutrition assessment A Comprehensive Guide for Planning Intervention, Second edition, 1995.
- 4. Wadhwa, A and Sharma, S. Nutrition in the Community: A Text Book, Elite Publishing House, New-Delhi, 2003.
- 5. Gibney, MJ. Margetts, B.M., Kearney, J.M Arab, I eds. Public Health Nutrition, NS Blackwell Publishing, 2004.
- 6. Owen, A.Y. and Frankle, R.T. Nutrition the Community. The art of Delivering services, 2nd edition. Times mirror, Mosby, 1986.

## TRAINING PROCESS AND METHODS (PRACTICAL)

Paper Code: 311 Max. Marks: 100

Teaching Hours: 2 practicals /week (3 hours/practical)
Total Teaching Workload: 24 practicals /semester

Phyli

Apmalia Sul

(23)

Objectives:	
To enable students to develop skills in	!
1. Need assessment process.	
2. Designing training programme.	
3. Organizing training.	
4. Evaluate a training programme.	
	Practicals
1. Need identification of target group/ community	3
2. Designing training schedule up to one week	2
Developing less on plan according to the schedule	2
Developing skills in selection and use of different training methods-lecture, braining methods-l	
storming, role play, group discussion, transactional analysis, buzz group, game	•
and demonstration  5. Organize and conduct training programme	1 40
Organize and conduct daming programme	10
	2
NGO MANAGEMENT (PRACTICAL)	
Paper Code: 312	
Max. Marks: 100	
Teaching Hours: 2 practicals/week (3 hours/practical)	
Total Teaching Workload: 24 practicals /semester	**
Objectives:	
To enable students to gain knowledge and skill regarding various aspects of functionin	g of
NGOs.	
Contents:	
The student will be placed in local NGOs for 4-8 weeks to gain Knowledge and skills	regarding
various aspects of NGOs functioning and thereafter will submit report.	
MASS MEDIA FOR DEVELOPMENT (PRACTICAL)	
Paper Code: 313	
Max. Marks: 100	
Teaching Hours: 2 practicals /week (3 hours/practical)	
Total Teaching Workload: 24 practicals /semester	
Objectives:	
To enable students to:	
1. Understand the functioning of various print media.	
2. Acquire skill of writing news for print media and script for Radio, Television an	d E-
Newsletter.	
Contents: Prac	ticals
1. Prepare a scrap book of development related news and advertisement from the	6
newspaper	1
2. Visits to print media centres and submit reports.	5
3. Write news and a feature for print media relating to Home Science issues.	4
4. Script writing for	1
• Radio	3
Television	3
E-newsletters	3
SCIENTIFIC WRITING - I (PRACTICAL)	<del></del>
Paper Code: 314	
Max. Marks: 100	1
Teaching Hours: 1 Practical/week	}
Total teaching workload: 12Practicals/Semester	

Kingle

M. Agrawal July

Aprolia Sul Maria

Jed 22 M Salt Registrar (Acad-University of Rajustics University of Rajustics

#### bjectives : 1. To be able to appreciate and understand the importance of writing scientifically. To develop competence in writing and abstracting skills for different writing needs. To develop the writing ability and to review different types of scientific writing. **Practicals** Contents: Scientific writing as a means of communication and preparing for writing: 1. Different forms of scientific writing: Articles in journals, research notes and reports, 1 review articles, monographs, dissertation, and bibliographies. 2. How to formulate outlines: The reasons for preparing outlines, kinds of outlines e.g., Topic outlines, conceptual outlines, theme outline. 3. Filling in the outlines and preparing the framework. E.g., drafting titles and subtitles. 4. Tables and illustration and systematic means of presenting data 1 Titles, rows, columns, footnotes 1 Types of illustrations: graph, diagrams, flowcharts The writing process and styles of writing: 5. Use of outlines as starting device. 6. Making draft-improving the draft in relation to the objectives. 7. Various styles of writing, consistency and other aspects. 1 8. Types of scientific writing-reports, journal papers, abstract, monographs, 1 dissertation, funding etc. 9. Components of scientific writinga. Introduction and Review of literature. 1 b. Methodology, Results and discussion, summary and conclusions 2 c. Limitations, bibliography and appendices 10. Writing a research proposal for grants-justification, rationale and importance of the question being addressed, empirical and theoretical conceptualization, presenting pilot 2 study/data, research proposal and time frame, clarity, specificity of method, clear organization, outcome of the study and its implications, budgeting, available infrastructure and resources, executive summary etc. References: 1. APA, Publication manual of American Psychological Association, 3rd Edition, Washington, 1984. 2. HM Cooper, Integrating research, A guide for literature review, 2nd Edition, Sage publications, California, 1989. 3. FV Dunn and others, Disseminating Research: Changing profile, Sage publications 1994. DISSERTATION- I (PRACTICAL) Paper Code: 315 Maximum Marks:100 Teaching Periods:3 Practical/week Teaching Load: 36Practicals/Semester Objectives: 1. To enable student to make and present a plan for research

2. To impart systematic and practical knowledge of research & its applied aspects

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Contents:

3. To develop scientist quality in student

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Conti

225

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1. Identification, analysis and selection of research problem and its relevance	12
Collecting relevant review and research paper regarding to research problem	12
2. Synopsis writing and power point presentation	12
Introduction	2
Rational of the study	2 2 2 2 2
Objectives	2
Review If literature (minimum 20 literatures should be cited)	
Brief methodology	1
Plan of action	1
Bibliography	2
References:	<del>-1</del>
1. Refer available journals, research studies and abstract books	•
SEMESTER IV	<del> </del>
EXTENSION ADMINISTRATION AND SUPERVISION (THEORY)	
Paper Code: 401	
Max. Marks: 100	
Teaching Hours: 4hours. /week	
Total Teaching Workload: 48 hours. /semester	
Objectives:	
To enable students to	
2. Understand the principles of administration, co-ordination and supervision.	
3. Become aware of the administrative structure of the rural development programm	nes in
india.	1
4. Understand basic elements in extension management.	1
Contents:	
UNIT-I Extension Administration	110
	Hours
Concept, meaning, nature and purpose of administration in Extension and rural	4
development.	
Public and private administration	2
Principle of administration and Increase efficiency in administration	3
Organization- Meaning, uses of centralization and decentralization, scale	6
principle, span of control, authority and delegation of authority, factors effecting	1 1
for building of an extension organization	1 1
UNIT- II	
Management	1
	1 2
5. Concept- meaning, nature of extension management.	4 1
5. Concept- meaning, nature of extension management.	6
5. Concept- meaning, nature of extension management.	6
<ul> <li>Concept- meaning, nature of extension management.</li> <li>POSDCORB - Planning, organizing, staffing, directing, coordination, reporting, budgeting</li> </ul>	
<ul> <li>Concept- meaning, nature of extension management.</li> <li>POSDCORB - Planning, organizing, staffing, directing, coordination, reporting, budgeting</li> <li>Principles of Management</li> </ul>	3
<ul> <li>Concept- meaning, nature of extension management.</li> <li>POSDCORB - Planning, organizing, staffing, directing, coordination, reporting, budgeting</li> <li>Principles of Management</li> </ul>	
<ol> <li>Concept- meaning, nature of extension management.</li> <li>POSDCORB - Planning, organizing, staffing, directing, coordination, reporting, budgeting</li> <li>Principles of Management</li> <li>Theories of management - Scientific management theory, classical organization</li> </ol>	3

Hor

		205	
XX.		Coordination – Meaning, need and aspects and factors infusing coordination, achieving coordination in an organization  Supervision – Meaning, Principles, characteristics or traits desirable in extension	4
	10.	supervisor Administrative set up – Functions and administrative structure of different Rural Development Programme in India, MGNREGA, SGSY, PMGSY, IAY, ICDS, Mid-Day Meal programme etc	8
	Refer	ences:	
	1.	Sharma D.P. Public Administration in Theory and Practice, Kitab Mahal Public Patna, Bihar, 1976.	ation,
	2.	Dahama, O.P. and Bhatnagar O.P. Education and Communication for Develop	ment.
	3.	Oxford and IBH Publishing, New Delhi, 1980.  Mishra, S.N. and Verma, B.M. Evaluation of Training of Rural Youth for Employment (TRYSEM) in Rajasthan, 1982.	Self
		Desi, D.K. Management in Rural Development, Oxford and IBH, New Delhi, 1983. Haq.M.C. Community Development through Extension, Chugh Publications, 1979.	
		Dubhashi, P.K. Grammer of Planning – Concepts and Application, Indian Institute Public Administration for and on behalf of the Training Division, Dept. of Personne Administrative Reforms, Govt. of India, 1983.	
		Fernandez, W. and Tandon, R. Participatory Research and Evaluation: Experimer India as a Process of Liberation, Indian Social Institute, New Delhi, 1981. Basavaprabhu, D., Handbook of Extension Education, Agrobios, Jodhpur, 2010.	its in
	13	NFORMATION COMMUNICATION TECHNOLOGY FOR DEVELOPMENT (THEORY)	
	•	Code: 402 Marks: 100	
ŀ		ing Hours: 4hours. /week	

Total Teaching Workload: 48 hours. /semester

# Objective:

# To enable students to

1. Create awareness among students about ICT and its application for education and development.

Understand the inter-relationship of different ICT's

# Contents:

Duit- I		
ICT, I	Education and Instructional Design	Hours
1.	Concept, meaning and definition of ICT	2
2.	Characteristics and nature of ICT	2
3.	Educational technology - meaning, scope and nature	2
4.	ICT and Education	4
5.	Role of ICT in education, extension and development	
6.	ICT for adult education	1
7.	Instructional design-meaning, benefits of instructional design	1
8.	Steps of instructional design-	2
	Analyze learners	3
	State objective	
	Select, modify and design material	
	Utilize material	1 1
	Evaluation	
Unit- I		

Process, types and use of computers in ICT

9. Processes related with ICT

- M. Agrawal

	206		
<u></u>	Process related to teacher	T	7-1
1	i. Awareness to technology		557
Ì	ii. Adoption of innovation	1	T)
.[	iii. Competency to technology		7
[	iv. Capabilities of technology		
	Process related to learner	1	- 1
1	i. Learners cognitive style		
1.	ii. Learning style		- [
	Spectrum of instructional ICT-	2	. [
}	i. Behaviorist instructional technology		- }
]-	ii. Cognitive instructional technology		
	iii. Constructivist instructional technology	1	
10.	Psychological principles of ICT- factors affecting and factors facilitating ICT	1	Ì
1	learning	1	
11.	Computer as tool of ICT-		
1		2	d
ł	Computers for education and development- hardware, features and parts	1 2	4
ĺ	<ul> <li>Classification according to-types, purpose and based on configurations/</li> </ul>		- (
1	memory type	].	
1	Components of computers (only elementary idea)-		- [
1	<ul> <li>Inputs and output hardware devices- cpu, key board, pointing device,</li> </ul>		1
1	scanner, image capturing device, combination of input and output device,	1	- [
1	monitor, printer, smart board, disc drive, CD Rom, projectors		1.
	<ul> <li>Elementary idea of software device- operating device, utilities, word</li> </ul>		Į
10	processor	1 2	
12.	Application of computers for development- Concept	2	-
13.	Computer assisted instruction (CAI)- instructional mode of CAI (tutorial, drill		
}	and practice, simulation mode, discovery, gamin and dialogue), characteristics of		}
1.,	CAI, uses and preparation of CAI material, evaluation of CAI material		1
14.	Computer assisted learning (CAL)- characteristics and variety	2 2	
15.	Computer based training (CBT)	2	
16.	Computer managed learning (CML)	2	
Unit-			7
	ances in ICT		
17.	Classification of ICT	1	7
18.	Internet – history, internet as global village, internet and education, advantages of	2	]
13.	internet, uses/functions of internet		
19.	Internet tools search engine and browser, assessing and sorting educational	2	1
17.	material, chat, e-mail, blog, voice mails and their use for education	1	
20.	Extranet- concept	2	1
21.	Synchronous and asynchronous modes of internet communication – relationship	2	1
41.	of	4	1
22.	communication process with ICT	•	
44.	Teleconferencing- audio and video conferencing, data conference/ text	2	1
23.	conferencing	3	}.· .
25.	Satellite in communication-videoconferencing and its technological aspects,	2	1
	channels of video conferencing, kinds, process, advantage and limitations		
24.	Educational portal- objectives, target groups and uses	4	
24.	Online learning and online evaluation	2	
Defe	rences:		
Kelel	EUCS.	1	

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- 1. Verma, M. Techology in Digital Education Murarilal & Sons Ansari Road, Darya Ganj New Delhi, 2006.
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- 7. International Development Research Centre (IDRC) Wireless teacher training & elearning platform, 2005. Retrieved 19th March 2005, from http://web.idrc.ca/en/ev-51270-201-1-DO_TOPIC.html
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- 10. Basavaprabhu, Jirli, D., Handbook of Extension Education, Agrobios, Jodhpur, 2010.

## GENDER SENSITIZATION (THEORY)

Paper Code: 403 Max. Marks: 100

Teaching Hours: 4hours. /week

Total Teaching Workload: 48 hours. /semester

## Objectives-

To enable students to:

- 1. Sensitize students about gender issues
- 2. Develop a gender eye about social and economic status of women

# Contents: Unit- I

Intro	oduction to gender	Hours
1.	Socialization: meaning, definition and stages	2
2.	Social construction of gender- sex and gender, gender discrimination, gender	2
	stereotyping, gender roles and gender needs-practical and strategic	2
3.	Factors influencing gender differences in health, education, occupation, resources	1
]	and socio cultural practices	2
4.	Issue related to women- divorce, widowhood, female commercial sex worker.	1
, 5.	Domestic violence: types and incidences.	2
6.	Problem of elderly and single women	2
7.	Empowerment-need, importance, social aspects of women empowerment	2
8.	Transition of women towards new millennium	2
Unit	·II	<del></del>
Econ	omic aspects of gender	
9.	Women and livelihood	2
10.	Women in informal work and women in employment : opportunities and	3
	limitations	
11.	Gender budgeting and gender eye	3
12.	Gender and poverty alleviation	3
13.	Women and microfinance	3
14.	Social safety for women in workplace	2
Unit-	Ш	1.11
Statu	III us of women vis a vis men	1.2

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Status of girl child in India and Rajasthan

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16.	Sex ratio, nutritional status and educational status	3	ı,
17.	Practices limiting women's development : child marriages, dowry, female feticide	4	
18.	Education as a tool of women empowerment.	2	9
19.	Obstacles to women education	2	$\Gamma$
20.	Technologies and empowerment- gender specific technologies, household	3	
	technologies interface, social – cultural interface and women as consumer of		
Ŀ	technologies		- 1.

#### References:

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## **HUMAN RIGHTS AND DUTIES (THEORY)**

Paper Code: 404 Max. Marks: 100

Teaching Hours: 4hours. /week

Total Teaching Workload: 48 hours. /semester

#### Objectives:

- 1. To enable the students to understand the issues concerning the rights and duties in general and the marginalized groups in particular.
- 2. To practice on self those values: self inculcation, endeavour to live up to those ideas i.e. Duty to respect other rights, respect each other human dignity

### Contents:

#### UNIT-I

Introduction to Human Rights

Background of human rights

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Hours

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	History and origin of human rights	T
	Indian constitution and human rights	1
	Human rights in international context (UN)	
	Universal declaration of human rights 1948	. [
	International covenants on civil and political rights 1966.	
	International covenants on economics, social and cultural Rights 1966	1
	Convention on elimination of all forms of discrimination against women	
	1979.	
	Convention on the rights of the child 1989	
	UN declaration and duties and responsibilities of individuals 1997	
	UN High commission for human rights and the committees under the	
	various conventions.	
	Concept of Human Rights and Duties	1 ,
•	Values: dignity, liberty, equality, justice, unity in diversity.	3
	Inherent, inalienable, universal and indivisible	
	Classification of rights.	2
•	Classification of duties	2
•	Correlation of rights and duties	2
	Human rights and duties in India	3
-	Evolution	
	Fundamental rights	1 1
	Directive principals of state policy	}
		1 1
	Fundamental duties	
NIT	•	
	ction and enforcement of Human Rights and Duties	
	Judiciary	3
•	National and state human rights commission and other grievance	3
	Redressed mechanisms	3
Λ.	NICOs social magram onto and programs around	
	NGOs, social movements and pressure groups	3
1.	Information media	
1. NIT	Information media - III	3
l. NIT ociet	Information media - III ral Problems and Internalizing of Human Rights and Duties	3 3
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Agarwal, Anil and Sunita Narain. Global Warming and Unequal world: A Case Environmental colonialism. Center for Science and Environment, New Delhi, 1991.

Baxi, Upendra. The Future of Human Rights, Oxford University Press, New Delni 3. Beteille, Andre. Antinomies of Society: Essays on ideology and institutions. Oxford University Press, New Delhi, 2003 4. Chandhoke, Neera, Conceits of civil Society. Oxford University Press, New Delhi, 2003. 5. Geetha, V. Gender, Street Publication, Kolkata, 2002. 6. Shanshyam Shan. Social Movements in India. Sage Publication, New Delhi, 1991. 7. Guha, Ramachandra and MadhavGadgil. Environmental History of India. University of California Press, Berkeley, 1993. 8. Haragopal, G. The Political Economy of Human Rights. Himachal Publishing House, Mumbai, 1997. 9. Menon, Nivedita (ed). Gender and Politics in India, Oxford University Press, New Delhi, 10. Patel. Sujata et al. Rethinking Social Science in India. Sage Publications, New Delhi, 2003. 11. Rao, Anupama (ed.). Gender and caste: Issues in Contemporary Indian Feminism, Kali, for women. New Delhi, 2003. 12. Shah, Nandita and Nandita Gandhi. Issues at stake: Theory and Practice in the Contemporary Women's Movement in India, Kali for Women. New Delhi, 1992. EXTENSION ADMINISTRATION AND SUPERVISION (PRACTICAL) Paper Code: 411 Max. Marks: 100 Teaching Hours: 2 practicals/week (3 hours/practical) Teaching Workload: 24 practicals /semester Objectives: To enable students to beome aware about the functioning and administrative structure of different rural developmental organizations, agencies and programmes. Contents: **Practicals** Study and prepare a report on the set up and functions of different developmental 6 programmes / agencies and developmental programmes Administrative structure of developmental agencies and voluntary organizations-RCDF, NABARAD, ATMA, RUDA, KVK, CAPART, NIPCCD, WHO, FAO 8 NIRD etc 6 Developmental programmes – ICDS, MNAREGA, SGSY, PMGSY, NRHM, Mid day Meal progamme etc. Administrative structure of three tier system in India INFORMATION COMMUNICATION TECHNOLOGY FOR DEVELOPMENT (PRACTICAL) Paper Code: 412 Max. Marks: 100 Teaching Hours: 2 practicals/week (3 hours/practical) Teaching Workload: 24 practicals /semester Objectives:

Contents: **Practicals** 

To develop skills in the students regarding-1. Designing educational portal. 2. Preparing power point presentations.

3. Preparing social advertisement for radio and T.V.

1.

2.

3.

advantages and disadvantages

Prepare a resource file containing at least ten ICT techniques-functioning, parts,

211

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	Design education portal on developmental issues	4	.
53	Visit to electronic media centre.	2 2	
	reparation of power point presentation reparation and evaluation of social advertisement for broadcast on Radio	6	1
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	To create awareness about different entrepreneurial activities  To develop the skills in the students regarding establishing an enterprise		-
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	Health hazards and problems related to the entrepreneur	1 _1_!!1	
	Agencies supporting the entrepreneur – financial support, knowledge support and	I SKIII .	
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	Resource management and evaluation.		+
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1	Preparation of fabric for dyeing and Printing	4	1
	Dyeing methods- tie and die, Batik	8	
	Finishing of dyed cloths	<b>2</b> (,	1
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	Pickles- Mango, mix vegetable, Kair, chilli, lemon, aonala	· 4
	Canning and bottling- green pea, apple, cauliflower, frozen vegetables	- · · · · · · · · · · · · · · · · · · ·
	SCIENTIFIC WRITING-II (PRACTICAL)	
Pap	er Code:414	
Max	rimum Marks: 100	
Tea	ching Periods: One Practical/week	
Tea	ching load: 12 practical per semester	•
Obj	ectives:	
	enable students to develop skills in	
	1. Writing Scientific papers, abstracts, review articles, monographs, disse	rtations
	bibliography	
:	2. Using computer to support scientific writing	
Con	tents:	
1.	Definitions - Introduction to the definition of different writing skills: Technical	2
	report, scientific paper, abstract, review article, and research note.	
2.	Exercises - Listing and classification of dissertations available in the library, on	2
	the basis of topics of dissertation work. (2-practicals).	_
3.	Exercises: On the basis of topic identified in the dissertation work, prepare the	
	following:	
	Technical report	2
	Scientific paper	2
	Abstract	2
	Research note	2
Ref	erences:	
1.	APA: Publication manual of American Psychological Association - 3 rd	edition.
	Washington, 1984.	- <b> </b>
2.	Robert AD, Barbara G, How to write and publish a scientific paper: 7th e	dition.
	Greenwood, Oxford, 2011.	
3.	Martha D, Kaaron JD, Marion D, Scientific papers and presentations ,3rd e	edition,
	Elsevier, China, 2012.	• • •
4.	William S, White E, Rogell A, The elements of Style, 4th edition, Pearson Edu	cation
	Limited, Harlow, 2014.	
5.	Michael A, The craft of scientific writing, Springer publishers, 1998.	
	DISSERTATION II (PRACTICAL)	
Pap	er Code:415	
	rimum Marks:100	
	ching Periods: 3practicals/week	
	ching Load: 36Practicals/Semester	
Obj	ectives:	
	. To enable student to write & present thesis	
	2. To impart systematic and practical knowledge of research & its applied aspects	
	3. To develop scientist quality in student	- 1

Harry

July

Albholes

Assu. Registrar (Acad i)
(priversity of italiastic)

m. Agrawal

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	<ul> <li>Review of literature</li> </ul>			
1 .	Materials and methods		1	
	<ul> <li>Result and discussions</li> </ul>			
The	sis writing and presentation I			
	• Conclusion			
1 .	<ul> <li>Summary</li> </ul>			
	<ul> <li>Bibliography</li> </ul>			
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Refer available journals, research studies and abstract books

M. Agrawal

Asets, Registrar (Acad-I) University of Rajasthan JAJEUR