

SNDT Women's University, Mumbai

Bachelor of Science (Home Science-Human Ecology and Community Science)

B. Sc. (Home Science-Human Ecology and Community Science)

As per NEP 2020

Syllabus (2024-2025)

Credit structure for Under Graduate Programmes in Humanities, Science and Technology and Interdisciplinary Studies Faculties

	Sem	Sem II	Sem III	Sem IV	Sem V	Sem VI	Tota l
Subject No 1 (to be	4	11	12	12	v 8	10	46
treated as Major)	4		12	12	0	10	40
Subject No 2 (A	2	2	2		4	4	14
and B), so minor		_	_		-	-	
Subject No 3		4					4
VSC S1	2				2		4
VSC S2		2					2
VSC S3		2					2
Major (Elective)					4	4	8
OEC	4	4	2	2			12
SEC	2	2		2			6
AEC (English)	2	2	2	2			8
AEC (Modern Indian Language)			2	2			4
VEC	2	2					4
CC	2	2	2	2			8
IKS (Generic)	2						2
IKS (Major- Specific)					2		2
FP					2		2
OJT						4	4
	22	22	22	22	22	22	132

(2024 May as per GR dated 13/03/2024)

Terminologies

Abbreviation	Full-form	Remarks	Related to Major and Minor Courses
Major (Core)	Main Discipline		
Major (Electiv e)	Elective Options		related to the Major Discipline
Minor Stream	Other Disciplines (Inter/ Multidisciplinary) not related to the Major	either from the same Faculty or any other faculty	
OEC	Open Elective Courses/ Generic		Not Related to the Major and Minor
VSC	Vocational Skill Courses		Related to the Major and Minor
SEC	Skill Enhancement Courses		Not Related to the Major and Minor
AEC	Ability Enhancement Courses	Communication skills, critical reading, academic writing, etc.	Not Related to the Major and Minor
VEC	Value Education Courses	Understanding India, Environmental science/education, Digital and technological solutions, Health & Wellness, Yoga education, sports, and fitness	Not Related to the Major and Minor
IKS	Indian Knowledge System	 I. Generic IKS Course: basic knowledge of the IKS II. Subject- Specific IKS Courses: advanced information about the subject: part of the major credit 	Subject Specific IKS related to Major
τιο	On-Job Training (Internship/Apprenticeship)	corresponding to the Major Subject	Related to the Major
FP	Field projects	corresponding to the Major Subject	Related to the Major
СС	Co-curricular Courses	Health and Wellness, Yoga education sports, and fitness, Cultural Activities, NSS/NCC and Fine/ Applied/Visual/ Performing Arts	Not Related to the Major and Minor
CE	Community Engagement and service		Not Related to the Major and Minor
RP	Research Project	corresponding to the Major Subject	Related to the Major

Programme Template:

Degree		B.Sc.			
Programme		Home Science - Human Ecology and Community Science			
Preamble (Brief Introduction to the programme)	na sc ei ai th ei ai Fo m C hi	Home-Science is an applied science. It is interdisciplinary in nature as it derives its contents from pure sciences; Social sciences and Humanities to form a discipline. It focuses on better quality of life for individual, family and society through enhancement of resources and productivity. The recent announcement of "Self Reliant India" gives new opportunities through education to create trade, investment and employment through innovation and incubation. The 6 major areas of this specialization are: Communication & Extension, Foods & Nutrition, Human Development, Resource management, Textiles & Clothing and Human Ecology & Community Science. There is scope for career opportunities and higher studies and research in each of the areas. A variety of teaching methods are used with emphasis on practical training.			
Programme Specific Outcomes (PSOs)		After completing this program , learner will-			
	So N	cquire knowledge about human ecology and Community cience in the context of five core subjects: Food Science and lutrition, Human Development, Textile Science, Family esource Management and Extension Education.			
	in el (N B	pply facts and principles to strengthen the chosen profession a sectors like retail, hospitality, health care, child care, care of Iderly, food industry, Non-Governmental Organizations NGOs), infrastructure, banks, educational institutions: alwadi, teacher training centers, schools, colleges and Iniversities, training and more.			
		se aesthetics to design the product be it a garment, a dish, a rop, an article, office space, home, and many more.			
	e pi te	articipate with government for setting guide-lines and valuation criteria for running crèche, Anganwadi, Balwadi, Pre- rimary schools, training centers for Extension workers, eachers and more such centers where graduates of this iscipline are trained.			

	5.	Develop basic efficiencies and entrepreneurial skills for extensive career opportunities.
	6.	Empower women citizens with ethics critical thinking, efficient communication skills and social interactions to become agent for sustainable life.
Eligibility Criteria for Programme		10+2 with Arts, Science, Commerce , M.C.V.C. and equivalent board
Intake		120

Structure with Course Titles B.Sc. (Home Science - Human Ecology and Community Science)

SN	Courses	Type of	Credits	Marks	Int	Ext
		Course				
	Semester I					
1.1	Introduction to Human Ecology and	Major (Core)	2	50	0	50
	Community Science - I					
1.2		Major (Core)	2	50	0	50
1.3		Major (Core)	2	50	0	50
1.4	Applied Science	OEC	4	100	50	50
1.5	Introduction to Human Ecology and	VSC	2	50	50	(
	Community Science (Pr)					
1.6	Professional and Presentation Skills (Pr)	SEC	2	50	50	(
1.7	English I	AEC (English)	2	50	0	50
1.8	Inception of Indian Knowledge System	IKS (Generic)	2	50	0	50
1.9	Introduction to Indian Constitution	VEC	2	50	50	(
1.10	Co-curricular activities	СС	2	50	50	(
			22	550	300	250
	Semester II					
	Introduction to Human Ecology and	Major (Core)	2	50	0	50
2.1	Community Science - II					
2.2		Major (Core)	2	50	0	50
2.3		Major (Core)	2	0	50	50
2.4		VSC	2	50	0	50
2.5		VSC	2	50	0	50
2.6	Human Physiology	OEC	4	100	50	50
2.7	Life Skills (Pr)	SEC	2	50	50	(
2.8	English II	AEC (English)	2	50	50	(
2.9	Environment Awareness	VEC	2	50	0	5
2.10	Co-curricular activities	сс	2	50	50	
			22	550	250	30

Exit with UG Certificate with 4 extra credits (44 + 4 credits)

Course Syllabus Semester I 1.1 Major (Core)

Course Title	Introduction to Human Ecology and Community Science – I (Theory)		
Course Credits	2		
Course Outcomes	After going through the course, learners will be able to		
	1. Understand the concept of Home Science		
	2. Integrate learning across role of Home Science		
	3. Acquire knowledge about human ecology and Community Science		
	 Appreciate and analyze the scope for career opportunities and higher studies and research in each of the areas. 		
Module 1 (Credit 1)	ntroduction to Home Science		
Learning Outcomes	After learning the module, learners will be able to		
	 Acquire knowledge about basics of Home Science and it's core subjects Understand relevance of Human Ecology & Community Science in society 		
Content Outline	Unit 1: Introduction to Home Science		
	Definition		
	Concept		
	History		
	Branches		
	Unit 2: Development of Human Ecology & Community Science & it's		
	Relevance to:		
	Family		
	Society		
	Commercial & technological revolution		
	Nation		
	Introduction to Human Ecology and Community Science		
Learning Outcomes	After learning the module, learners will be able to		
	 Gain in depth understanding about Human Ecology and Community Science Analyze career opportunities in Human Ecology & Community Science 		

Content Outline

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE) Module 1 Introduction to Home Science

• Assignment on relevance of Human Ecology and Community Science to quality life

Module 2 Career opportunities in Home Science and Human Ecology & Community Sciences

 Project and presentation on Career opportunities in Home Science and Human Ecology & Community Sciences

- 1. A Textbook of Home Science. (1990). Rev. Edn Publisher : Orient BlackSwan
- 2. Bhargav Priya (2004). Teaching of Home Science. Commonwealth Publishers
- Jaiswal, A. (2017). Concept of human ecology: Human Ecology PG e-Pathsala, (An Ministry of Human Resource Development Project under its National Mission on Education through ICT (NME-ICT)
- 4. Mullick Premlata. (1995). Textbook of Home Science. Kalyani Publishers
- 5. Human Ecology and Family Sciences Part II Revised Edition February 2023 Publication by the Secretary, National Council of Educational Research and Training

1.4 Open Elective Course

Course Title	Applied Science (Theory & Practical)
Course Credits	4 (2+2)
Course Outcomes	After going through the course, learners will be able to
	1.Understand the importance of science in daily life
	2.Develop analytical attitude.
	3.Acquire knowledge to develop scientific way of thinking.
	4.Impart knowledge to apply .
Module 1 (Credit 1)	Applied Chemistry
Learning Outcomes	After learning the module, learners will be able to
	1.Inculcate scientific temper in the students and develop scientific, analytical attitude.
	2.Develop to understand the importance of knowledge of chemistry with respect to food, textiles, medicine, harmful chemicals & industries.3.Understand the use and importance of chemistry in day to day life.
Content Outline	Review of Basic Chemistry
	 Important definitions
	 Difference between Organic & Inorganic compounds
	• Functional groups
	 Bohr's model of atom
	 Atomic number & electronic configuration
	2) Soaps & Detergents
	Saponification reaction
	Cold and hot process of soap making
	Difference between soaps and detergentsCleansing action
	3) Drugs and Pharmaceuticals
	 Properties of good drug
	 Meaning of important terms with e.g. Analgesic, Antipyretic, Antacid, Antibiotic, Diuretic, anti-inflammatory, Laxatives, Sulfa drugs Common drugs- use and side effects of Aspirin, Paracetamol, Sulphanilamide 4) Dyes
	 Definition, important terms like chromophore, Auxochrome, chromogen Classification based on application
	 e.g. and uses of different dyes in food, textile, medicine, laboratory, etc. & their hazards 5)Polymers Introduction Define-monomer, polymer, polymerization Some important polymers and their structure & uses polyethylene, polyester, polyvinyl chloride

Module 2 (Credit 1)	Applied Biology
Learning Outcomes	After learning the module, learners will be able to
	 Acquire the basic knowledge of the fundamentals of biological sciences. Apply the knowledge of the biological processes to everyday life.
Content Outline	Cell
	As the basic unit of life
	Types of cells
	Salient features of animal cell
	Introduction to Micro-organism
	• Bacteria-Structure, Classification based on response to O ₂ , nutrition,
	Importance of bacteria
	• Fungi- Morphology of molds and yeasts, classification, beneficial and
	harmful aspects
	• Virus- Morphology, Classification based on nucleic acid content and
	hosts
	Genetics and Heredity
	Origin of the term gene Chaminal hasis of handity, anappingtion of human communications are human.
	Chemical basis of heredity- organization of human genome, sex determination monogonic and polygonic traits patterns of
	determination, monogenic and polygenic traits, patterns of inheritance- autosomal, recessive and sex-linked inheritance
	 Mutation and its type, abnormalities in chromosome number Genetic Engineering and Biotechnology
	 Definition of the terms
	 Methodology of gene cloning-in brief
	1. Application of genetic engineering in plants- insects & virus resistant
	plants, plants with improved characters.
	2. Application in human medicine- pharmaceuticals, thallessemia
	ontogenesis, interferon, production of growth hormone, human insulin
	ELISA.
Module 3 (Credit 1)	Applied Chemistry (Practical)
Learning Outcomes	After learning the module, learners will be able to
0	
	1. Develop in students the ability to work systematically in laboratory.
	2. Develop in them the skill for simple chemical procedures.
Content Outline	1) Introduction to chemistry lab & apparatus.
	2) Neutralization of strong acid with strong base (HCl & NaOH)
	3) Neutralization of weak base with strong acid ($Na_2CO_3\&H_2SO_4$)
	4) Neutralization of weak acid with strong base (Oxalic acid & NaOH)
	5) Oxidation- reduction reaction (Oxalic acid & KMnO ₄)
	6) pH determination of various solutions: acid, base and neutral (two
	household example for each)
	7) Preparation of soap bar
	8)Viscosity measurement: water, oil, shampoo by Oswald's viscometer

Learning Outcomes	After learning the module, learners will be able to		
	 Acquire knowledge of various micro-organisms and the required skills to study them. Apply this knowledge in day to day life. 		
Content Outline	 Study and care of microscope Observation of motility of bacteria by Hanging drop method (<i>E.coli / Proteus</i>) Observation of bacteria by the simple: monochrome staining method (Hay infusion culture or milk) Gram staining of bacteria in buttermilk To observe common pathogenic bacteria (any 6 – permanent slides) Observation of fungi on different food materials To observe common pathogenic protozoa (permanent slides of <i>Entamoeba histolytica</i> and <i>Plasmodium vivax</i>) Study of medicinally important plants (projects) 		

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE) Module 1 Applied Chemistry

Assignment / Quiz Module 2 Applied Biology Assignment / Quiz Module 3 Applied Chemistry (Pr) Daily work Journal Performing experiment Module 4 Applied Biology (Pr) Daily work Journal Performing experiment

- 1. George A. (1984): Shreeve's Chemical Process Industries
- 2. Glazer A. Na Ni Baido H (1995) Microbial Biotechnology W.H. Freemen Company.
- 3. K. Venkatraman (1952): The Chemistry of Synthetic Dyes, Vol. I, Academic Press, New York.
- 4. Kent S.A. (1974): Riegel's Handbook of Industrial Chemistry.
- 5. Loewy A. and Sckevilz (1995) Cell Structure and Functions, Hold, New-York
- 6. Nicholl D.S.T. (1994) An Introduction to Genetic Engineering-Cambridge University, Press.
- 7. Pelczar N.S, Chan F.C.S. Krieg N.R. (1998) Microbiology, Tata Mc Grow Hill.
- 8. Person D. (1983): The Chemical Analysis of Food, Churchill Livings Tone, Edunburgh, London, New York.
- 9. Porter K.R., Bonnevile M.A. (1964) Fine Structure of Cells and Tissues, Lea & Blanchard, Philadelphia.
- 10. Prof. V. A. Shenal (1991): Introduction to the Chemistry of Dyestuffs, sevsk Publications.
- 11. Rao C.V. (1994) Foundation to Mol. Biol, R. Chenda. Co. Publisher
- 12. Thomsen E.G. (1985): Modern Cosmetics Universal publishing corp
- 13. Zhdanov L.S. (1980): Physics for the Technician, MIR Publications. Moscow.

1.5 Vocational Skill Course

Course Title	Introduction to Human Ecology and Community Science (Practical)
Course Credits	2
Course Outcomes	After going through the course, learners will be able to
	1. Apply and analyze basic skills in textile and clothing
	2. Apply and analyze basic skills in Food Science and Nutrition
	3. Evaluate basic skills in the area of Human Ecology and Community Science
Module 1 (Credit 1) S	kills in Textile and clothing
Learning Outcomes	After learning the module, learners will be able to
	1. To identify different types of fibers
	2. Apply knowledge of care and maintenance of clothes
	3. Acquaint with basic stitching skills
	4. Apply basic skills for garment finishing
Content Outline	Basic skills in Human Ecology and Community Science
	Identification of fibers
	Care and maintenance of clothes
	Basic Stitching skills
	Basic skills of garment finishing
Module 2 (Credit 1)	Skills in Food Science and Nutrition
Learning Outcomes	After learning the module, learners will be able to
	1. Apply knowledge of various methods in cooking
	2. Create decorative vegetables and fruit cutting
Content Outline	Cooking methods: Boiling, Baking, Grilling, Roasting,
	Steaming, Poaching, Broiling, Frying
	Decorative vegetables and fruit cutting

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

Module 1 Skills in Textile and clothing

- Project on basic stitching
- Project on garment finishing

Module 2 Skills in Food Science and Nutrition

- Preparing and presenting one recipe using cooking method
- Preparing Decorative vegetables and fruit cutting

- 1. Gohl E.P. and Velensky L.D. (1983) Textile Science, Melbourne: Longman Cheshire Pvt. Ltd.
- 2. Kefgan & Phyllis T. (2000) Individuality in Clothing Selection and Personal
- 3. Mudambi, S.R. and M.V. Rajgopal (2006). Fundamentals of Foods and Nutrition. Wiley Eastern Ltd.
- 4. Shadaksharaswamy, M, Manay, S, (2010): Food facts and Principles, 3rd Edition, New Age International Publishers
- 5. Srilakshmi, B: (2010). Food Science, 5th Edition, New Age International Pvt Ltd Publishers
- 6. Zarapkar K.R. (1999).Zarapkar system of cutting. Navneet Publications (India)Ltd

1.6 Skill Enhancement Course

Course	Professional and Presentation Skills (Practical)
Title	
Course	2
Credits	
Course	The course will enable the students to:
Outcomes	
outcomes	1. Acquire professional skills to pursue in a successful career path
1.	2. Apply knowledge for preparing professional resume, interviews and group
	discussions
	3. Acquire presentation Skills
	4. Design and develop effective presentation for professional purposes
	5. Function as a better team member for collaborative work
Module 1 (C	redit1) – Professional Skills
Learning Outcomes	This will enable students to:
2	1. Prepare their resume in an appropriate format
	2. Actively participate and perform in a practice interview
	3. Embrace good listening skills
	4. Perform appropriately and effectively in group discussions
	5. Function manners and etiquette in social and cultural settings
Content	Resume Skills
Outline	Interview Skills
•••••	Social and Cultural Etiquette
	Listening Skills
	Group Discussion Skills
	Collaborative Skills
Module 2 (C	redit1) – Presentation Skills
Learning	This will enable students to:
Outcomes	1. Acquire knowledge related with the purpose and skills of presentation
	2. Develop various skills required for presentation
	3.Apply presentation skills for personal professional development
	4. Create effective presentation for professional usage.

Content	Purpose
Outline	Types: Presentations , Skills
outine	Stages of presentation
	Factors affecting presentation
	Tools for presentation
	Handling Open Discussion
	Characteristics of good presenter
	Ways to improve presentation

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

<u> Module - 1</u>

Resume writing

Mock Interview

Group Discussion

<u> Module - 2</u>

Preparing presentation

Individual Presentations

- 1. Ellen. M. G and Loewy. D, (2022) "The Essentials of Business Communication" Cengage Learning, Australia
- Locker. K and Kaczmarek. S., (2014) "Business Communication: Building Critical Skills". ISBN-9781259089091
- 3. Murphy. H, Hildebrandt. H, and Thomas. J.(2011) "Effective Business Communication". McGraw-Hill, New York
- 4. Chesebro. J. L and Goss. T.P. (2018): "Professional Communication at Work: Interpersonal Strategies for Career Success". Routledge, US
- 5. Barun K. Mitra, "Personality Development & Soft Skills", Oxford Publishers, Third impression, 2017.

2.1 Major (Core)

Course Title	Introduction to Human Ecology and Community Science – II (Theory)
Course Credits	2
Course Outcomes	After going through the course, learners will be able to
	1.understand and analyze the significance of nutrition, health and well-
	being, growth and development, education and communication, apparel
	and management suggestions and resources necessary to enhance the
	quality of life of self, family, community and society.
	2. Develop a holistic understanding of life in the home and outside.
Module 1 (Credit 1)	Introduction to Food Science, Nutrition and Human Development
Learning Outcomes	After learning the module, learners will be able to
	1.Understand Meaning, Scope and Area of specialization in Food Science &
	Nutrition
	2.know the meaning, Scope and Area of specialization in Human
Constant Outline	Development
Content Outline	Unit 1: Meaning, Scope and Area of specialization in Food Science & Nutrition
	Food Science
	Nutrition
	Meal Management in Health and Disease
	Food Service Management
	Food Safety, Sanitation and Hygiene
	Public Health Nutrition
	Unit 2: Meaning, Scope and Area of specialization in Human
	Development
	Early Childhood Care & Education
	Human Development
	Marriage and Family studies
	Guidance and counseling
Module 2 (Credit 1)	Introduction to Textile Science, Resource Management and Extension & Communication
Learning Outcomes	After learning the module, learners will be able to
	1.Understand Meaning, Scope and Area of specialization in Textile science;
	Resource management and Extension and communication

Content Outline	Unit 1: Meaning, Scope and Area of specialization in Textile
	Science
	Textile Science
	Clothing and apparel
	Accessories design
	Fabric ornamentation
	Fashion Designing
	Unit 2: Meaning, Scope and Area of specialization in Resource
	Management
	Resource Management
	Interior Designing
	Entrepreneurship Development
	Interior designing
	Unit 3: Meaning, Scope and Area of specialization in Extension
	and Communication
	 Extension
	 Media & Communication
	Community Development
	Programme Planning

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE) Module 1 Introduction to Food Science, Nutrition and Human Development

• Assignment on areas of specialization and its scope

Module 2 Introduction to Textile Science, Resource Management and Extension & Communication

• Assignment on areas of specialization and its scope

- 1. A Textbook of Home Science. (1990) .Rev. Edn Publisher : Orient BlackSwan
- 2. Bhargav Priya and Chand Tara (2018). Principles of Home Science. Commonwealth Publishers.
- 3. Mullick Premlata. (1995). Textbook of Home Science. Kalyani Publishers
- Sharma S. R. and Kaushik Vijay. (2002). Encyclopedia of Home Science. Anmol Publication PVT. LTD.

2.6 Open Elective Course

Course Title	Human Physiology (Theory & Practical)
Course Credits	4 (2+2)
Course Outcomes	After going through the course, learners will be able to
	1. Understand the basic structure and functions of the human body
	2. Acquainted with common diseases/disorders of each system
Module 1 (Credit 1) H	uman Physiology I
Learning Outcomes	After learning the module, learners will be able to
	1. Introduce students to basic terminologies
	2. Understand the basic structure of human body
	3. Understand the functioning of cardio vascular, respiratory , gastro intestinal
	4. Brief knowledge about common diseases affecting each system.
	5. To create awareness about interdependence and co-ordination
	between different systems of the body for normal functioning.
Content Outline	 INTRODUCTION General terms- anatomy, physiology, symmetrical arrangement, anatomical position. Median plane / lateral plane, internal/ external, superficial /deep, superior/ inferior, anterior/posterior. Basic human tissues. Introduction to human skeleton. Structure of bone and cartilage. Classification of various types of muscle. BLOOD AND LYMPHATIC SYSTEM Physical characteristics of blood Blood volume, composition of plasma and functions of plasma protein RBC formation and functions Information about anaemia and thalessemia. Blood groups, their importance , Rh-incompatibility. WBC- types, functions, importance of CBC Platelets and mechanism of coagulation Lymph and lymphatic system, spleen and its functions. HEART Its structure and circulation of blood. Cardiac cycle Information about hypertension & ischemic heart disease

	RESPIRATORY SYSTEM Respiratory organs-nose, sinuses, larynx, trachea, bronchi lung brief structure and functions. Mechanism of respiration, factors affecting efficacy of respiration. Various lung volumes and capacities. Common diseases- TB, asthma, bronchitis, cough, pneumonia sinusitis. GASTRO - INTESTINAL SYSTEM Oral cavity, tonsils, pharynx, oesophagus, stomach small and large intestine - brief structure and functions. Liver, gall bladder, pancreas structure and functions. Common disorders- Dental caries, vomiting. diarrhoea, constipation. Hyperacidity, diabetes.
Module 2 (Credit 1)	Human Physiology II
Learning Outcomes	After learning the module, learners will be able to
	 Understand the functioning of excretory system and brief knowledge about common diseases affecting this system. Know more about the nervous system
	3.Know more about the endocrine system
	-
	4. Have knowledge of reproductive system and importance of reproductive health
Content Outling	
Content Outline	 EXCRETORY SYSTEM Structure and function of organs of urinary system (in brief). Mechanism of urine formation Common diseases- urinary tract infection and renal stones. Structure and function of skin Regulation of body temperature Common disorders - acne dandruff and burns. NERVOUS SYSTEM Classification of nervous system Structure and functions of different parts of brain, spinal cord and reflex action. Eye - structure and mechanism of vision Common problems - conjunctivitis, cataract. Ear - structure and mechanism of hearing Common problems - deafness, vertigo, motion sickness ENDOCRINE SYSTEM Listing of endocrine glands and their location Functions of pituitary, thyroid, parathyroid and adrenal.

	REPRODUCTIVE SYSTEM
	FEMALE REPRODUCTIVE SYSTEM
	Structure
	Menstrual cycle
	• Fertilization
	• Breast- Structure, function, importance of breast hygiene and breast
	feeding
	Physiological changes in pregnancy
	Importance of ante-natal care.
	MALE REPRODUCTIVE SYSTEM
	• Structure
	• Sex education
	 Contraception and infertility
	Sexually transmitted diseases-syphilis, gonorrhoea, AIDS
Module 3 (Credit 1) H	Iuman Physiology I Practical
Learning Outcomes	After learning the module, learners will be able to
	1. Introduce the students to human skeleton and enable them to identify
	various bones in the body
	2. perform simple clinical tests like estimation of haemoglobin and blood
	group and blood pressure
Content Outline	• Study of human skeleton and identification of bones.
	Estimation of hemoglobin
	• Estimation of blood groups,
	Demonstration of peripheral blood smears. Importance of
	complete blood count.
	Measurement of pulse rate and blood pressure.
	• Discussion of normal components of urine. Test for abnormal
	components like sugar, albumin and acetone and discussion on
	diseases in which they are found.
Module 4 (Credit 1) H	Iuman Physiology II Practical
Learning Outcomes	After learning the module, learners will be able to
	1. Utilize the knowledge learnt to administer first aid for common
	emergency situations.
	2. Acquaint the students with the basic principles of home nursing.
Content Outline	FIRST AID
	• -Definition, aims, qualities of first aider, contents of first aid box.
	 -Different types of bandages and bandaging techniques.
	WOUNDS
	 -Classification, dressing and management of hemorrhage- basic
	principles and discussion about bleeding from various parts of
	body.

•	FRACTURE
•	-Types, symptoms, management.
•	Sprain and dislocation
•	First Aid for- foreign bodies in eye, ear, nose, skin.
•	<i>First Aid for</i> - fainting, burns, heat stroke, asthma, convulsions, electric shock and heart attack.
•	<i>First Aid for</i> - common poisoning, dog bite, snake bite, bee-sting and scorpion bite.
•	BASIC PRINCIPLES OF HOME NURSING-
•	Measuring body temperature, steam inhalation, body sponging, taking care of bed ridden patient and enema.
•	Cardio pulmonary resuscitation

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

Module 1

Multiple choice questions, Short notes, Display, Quiz

Module 2

Multiple choice questions, Short notes, Display, Quiz, PPT Presentation

Module 3

Practical exam

Module 4

Practical exam

REFERENCES:

1) Guyton, A.C., Hall J.E.- Textbook of Medical Physiology - Prism Books Pvt Ltd., Bangalore.

2) Concise Medical Physiology - Chaudhari.

3) API Text Book of Medicine.

4) Textbook of Gynaecology - Datta.

5) Winwood - Sear's Anatomy and Physiology for Nurses - London, Edward Arnold.

6) Wilson -Anatomy and Physiology in Health and Illness, Edinburgh, Churchill Livingstone.

7) Chatterjee Chandi Charan -Textbook of Medical Physiology - London. W.B. Saunder's company.

8)Glynn M. (2013) Hutchinson's Book of Clinical Medicine (23rd ed). Saunders Ltd.

9) First Aid St .John's Ambulance Association (2002) (8th Revised edition). Dorling Kindersley

Publishers Ltd

2.7 Skill Enhancement Course

Title Course 2 Credits 2 Course The course will enable	
Credits	
	the students to:
Outcomes	
1. Identify univer 2. Develop life sl	rsal human values
	s consciously to be a good human being
Module 1 (Credit1) – Introduction to	o Life Skills
Learning This will enable studer	nts to:
	eaning and significance of life skills
2. Gain Self Com	petency and Confidence
3. Practice Emot	ional and social Competency
4. Implement an	d analyze various techniques for developing life skills
Content Meaning and sign	ficance of life skills
Outline Life skills identified	d by WHO: Decision making, creative thinking, communication,
self-awareness, co	pping with emotions, problem solving, critical thinking,
interpersonal skills	s, empathy, coping with stress
Techniques for de	veloping life skills
Module 2 (Credit1) –Human values	
Learning This will enable studer	nts to:
Outcomes 1. Gain Knowled	ge about universal human values
2. Understand th and national li	ne importance of human values in personal, social, professional fe.
3. Instill human	values in their core personality
4. Apply human	values and bring awareness in their surrounding
Content Human values (In	brief): Love and Compassion, Truth, Non-violence
Outline ,Righteousness , P	eace , Service , Renunciation (Sacrifice) ,
Constitutional Val	ues, Justice, and Human Rights

Assignment/Activities towards Comprehensive Continuous Evaluation (CCE),

Module - 1

Conducting a Case study with predesigned questionnaire and its presentation <u>Module - 2</u>

Analyzing and presenting a case study by identifying different human values (Recognized personalities who followed and practiced human values)

References:

1. R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.

2. Bhatia, R. & Bhatia, A (2015) Role of Ethical Values in Indian Higher Education.

5. A Nagraj, 1998, JeevanVidyaEkParichay, Divya Path Sansthan, Amarkantak.

7. A N Tripathy, 2003, Human Values, New Age International Publishers.

1. Shiv Khera, You Can Win, Macmillan Books, New York, 2003.

2. Barun K. Mitra, "Personality Development & Soft Skills", Oxford Publishers, Third impression, 2017.

6. Larry James, "The First Book of Life Skills"; First Edition, Embassy Books, 2016.

7. Shalini Verma, "Development of Life Skills and Professional Practice"; First Edition; Sultan Chand (G/L) & Company, 2014.

10. Butterfield Jeff, "Soft Skills for Everyone", Cengage Learning India Pvt Ltd; 1 edition, 2011.

11. Training in Interpersonal Skills: Tips for Managing People at Work, Pearson Education, India; 6 edition, 2015.

12. The Ace of Soft Skills: Attitude, Communication and Etiquette for Success, Pearson Education; 1 edition, 2013.