

As Per NEP 2020

## University of Mumbai



### Title of the program

- A. U.G. Certificate in **Home Science – Community Resource Management**
- B. U.G. Diploma in **Home Science – Community Resource Management**
- C. B.Sc. ( **Home Science – Community Resource Management** )
- D. B.Sc. (Hon. ) in **Home Science – Community Resource Management**
- E. B.Sc. ( Hons. with Research ) in **Home Science – Community Resource Management**

### Syllabus for Semester – Sem I & II

Ref: GR dated 20<sup>th</sup> April, 2023 for Credit Structure of UG

(With Effect from the Academic Year 2024-2025 Progressively)

# University of Mumbai



(As per NEP 2020)

Sr. No.	Heading	Particulars	
1	<b>Title of program</b> O: _____A	A	U.G. Certificate in Home Science – Community Resource Management
	O: _____B	B	U.G. Diploma in Home Science – Community Resource Management
	O: _____C	C	B.Sc. (Home Science – Community Resource Management)
	O: _____D	D	B.Sc. (Hons. )Home Science – Community Resource Management
	O: _____E	E	B.Sc. (Hons. with Research) in Home Science – Community Resource Management
2	<b>Eligibility</b> O: _____A	A	\\\n Higher Secondary Education 10+2 OR Passed Equivalent Academic Level 4.0
	O: _____B	B	Under Graduate Certificate in Home Science/Science/Arts/any field_OR Passed Equivalent Academic Level 4.5
	O: _____C	C	Under Graduate Diploma in Home Science/Science/Arts/any allied field OR Passed Equivalent Academic Level 5.0
	O: _____D	D	Bachelors of Home Science/Science/Arts/any allied field with minimum CGPA in 7.5 OR Passed Equivalent Academic Level 5.5
	O: _____E	E	Bachelors of in Home Science/Science/Arts/any allied field with minimum CGPA in 7.5 OR Passed Equivalent AcademicLevel 5.5
3	<b>Duration of program</b> R: _____	A	One Year
		B	Two Years
		C	Three Years
		D	Four Years
		E	Four Years
4	<b>Intake Capacity</b> R: _____	<b>200 in the First Year</b> (Allocation of Seats in Major, Minor and other components will be done into the four specializations of Home Science based on Choice and Merit across the Semesters)	

5	<b>Scheme of Examination</b> R: _____	NEP 40% Internal 60% External, Semester End Examination Individual Passing in Internal and External Examination is mandatory	
6	R: _____ <b>Standards of Passing</b>	40%	
7	<b>Credit Structure</b> Sem. I - R: _____ <b>A</b> Sem. II - R: _____ <b>B</b>	Attached herewith	
	<b>Credit Structure</b> Sem. III - R: _____ <b>C</b> Sem. IV - R: _____ <b>D</b>		
	<b>Credit Structure</b> Sem. V - R: _____ <b>E</b> Sem. VI - R: _____ <b>F</b>		
8	<b>Semesters</b>	A	Sem I & II
		B	Sem III & IV
		C	Sem V & VI
		D	Sem VII & VIII
		E	Sem VII & VIII
9	<b>Program Academic Level</b>	A	4.5
		B	5.0
		C	5.5
		D	6.0
		E	6.0
10	<b>Pattern</b>	Semester	
11	<b>Status</b>	New	
12	<b>To be implemented from Academic Year</b> <b>Progressively</b>	From Academic Year: 2024-2025	

**Sign of the BOS Chairperson**  
Name of the Chairperson:  
Prof. Dr. Vishaka Ashish Karnad  
Name of the BOS: Home Science

**Sign of the Offg. Associate Dean**  
Name of the Associate Dean  
Name of the Faculty

**Sign of the Offg. Dean**  
Name of the Offg. Dean  
Name of the Faculty

## Preamble

### Introduction:

Home Science is an interdisciplinary science, which offers holistic and socially-relevant educational program. Home Science has emerged as a full-fledged scientific course in which overall improvement in the quality of life of the individual, family, and community is sought. There is a prominent emphasis on professional competence and sensitivity to the needs of society. The degree courses are B.Sc. (Home Science), M.Sc. (Home Science) and Ph.D. (Home Science).

The four major areas of specialization are as follows:

- Foods, Nutrition and Dietetics
- Human Development
- Textile and Fashion Technology
- Community Resource Management

PO No.	After completing the program, the student should have	Graduate Attribute
PO1	the capability of demonstrating comprehensive knowledge and understanding of Home Science	Disciplinary knowledge
PO2	good language skills and the ability to express thoughts and ideas verbally as well in writing and effectively communicate the same using appropriate media suitable for different target groups	Communication Skills
PO3	competence of applying disciplinary knowledge and the ability to critically analyze and evaluate data, practices, policies and theories for knowledge development	Critical thinking
PO4	skill to identify problems and to apply disciplinary knowledge to tide over real life situations	Problem solving
PO5	aptitude to evaluate the reliability and relevance of a knowledge body, identify lacunae, analyze and draw valid conclusions	Analytical reasoning
PO6	develop a sense of enquiry and the capability for asking relevant questions for scientific understanding, along with the ability to recognize cause-and-effect relationships, define problems and plan, execute and report the results of an experiment	Research-related skills Scientific reasoning
PO7	ability to work effectively with diverse teams facilitating cooperative effort	Cooperation/Team work
PO8	ability to apply the skills, knowledge and competencies learned in through laboratory training at the personal, household, community and professional level	Reflective thinking
PO9	skill to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data and its application for different purposes	Information/digital literacy
PO10	ability to work independently, identify appropriate resources required for a project, and manage a project through completion.	Self-directed learning
PO11	awareness of the values and beliefs of multiple cultures and the ability to interact and reflect appropriately with diverse groups with respect.	Multicultural competence
PO12	capacity to imbibe moral and ethical values and do away with falsification and plagiarism in personal and professional life. Also, the ability to identify ethical issues related to environmental and sustainability thereby developing the skill to practice unbiased actions in all aspects.	Moral and ethical awareness/reasoning
PO13	capability of planning, organizing, executing and controlling various activities with a sense of responsibility and commitment along with the skill to motivate, inspire and encourage team work in an efficient way.	Leadership readiness/qualities
PO14	the competencies and acquire openness for participating in learning activities throughout life, through self-paced and self-directed learning, focusing at personal development to meet economic, social and cultural objectives and the changing trends and demands of the industry and society.	Lifelong learning

The program offers major and minor courses along with open electives (OE), ability enhancement courses (AEC), IKS, value education (VEC) vocation skill (VSC)based projects, field (FP) and research projects (RP) with due credits along with credits for cocurricular (OC) activities. It is designed in a wholesome manner and structured to impart knowledge, skills and attitudes aiming at personal, professional, career and community growth and enrichment and holistic development of individuals capable of contributing to society for national and global challenges and idiosyncrasy to be considered strongly for sustainability.

**Objectives of the Program:**

The objectives of the Home Science curriculum are as follows:

1. To impart knowledge and facilitate the development of skills and techniques in the basic area of Home Science required for personal, professional and community advancement.
2. To inculcate in students, values and attitudes that enhance personal, life skills and family growth and to sensitize them to various social issues for the development of a humane society.
3. To promote in students a scientific temper and competencies in research to enable contributions to the national and international knowledge base in Home Science and allied fields.
4. In sum, to empower our students such that they can effect positive changes at multiple levels.

- 1) Credit Structure of the Program (Sem I, II, III, IV, V & VI)
- 2) Under Graduate Certificate Home Science – Community Resource Management

**Under Graduate Diploma Home Science – Community Resource Management  
Credit Structure (Semester I & II)**

R: _____ A												
Level	Semester	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Cum. Cr. /Sem.	Degree/ Cum. Cr.		
		Mandatory	Electives									
4.5	I	6 <b>Principles of Management</b> (Theory) (2 cr) <b>Introduction to Ergonomics</b> (Theory) (2 cr) <b>Basic Health Assessment</b> (Practical) (2 cr)		-	2+2	VSC:2 SEC:2  Basic Health Assessment	AEC:2 VEC:2 IKS:2	CC:2	22	UG Certificate Home Science Community Resource Management  44 Credits		
	R: _____ B											
	II	6 <b>Personal Finance</b> Theory (2 credits) <b>Introduction to Tourism</b> Theory (2 credits) <b>Anthropometry and Desk Ergonomics</b> Practical (2 credits)		2	2+2	VSC:2, SEC:2 Anthropometry and Desk Ergonomics	AEC:2, VEC:2	CC:2	22			
Cum Cr.	12	-	2	8	4+4	4+4+2	4	44				

**\*Note:** It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.

**Exit option:** Award of UG Certificate in Major with 40-44 credits and an additional 4 credits core NSQF course/ Internship  
**OR** Continue with Major and Minor

**Under Graduate Diploma Home Science – Community Resource Management  
Credit Structure (Semester III & IV)**

		R: C								
Level	Semester	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Cum. Cr./ Sem.	Degree/ Cum. Cr.
		Mandatory	Electives							
5.0	III	8		4	2	VSC:2	AEC:2	FP: 2 CC:2	22	UG Diploma Home Science – Community Resource Management  88 Credits
		<b>Management of Human Energy Theory</b> Theory (2 credits) <b>Interior Design and Decoration Theory</b> Theory (2 cr) <b>Fundamentals of Human Resource Management Theory</b> Theory (2 cr) <b>Work Study Practical</b> Practical (2 cr)								
	R: D									
	IV	8		4	2	SEC:2	AEC:2	CEP: 2 CC:2	22	
		<b>Event Management Theory</b> Theory (2 cr) <b>Occupational Health and Safety Theory</b> Theory (2 cr) <b>Principles of Marketing Theory</b> Theory (2 cr) <b>Entrepreneurship and New Venture Development Practical</b> Practical (2 cr)								
	Cum Cr.	28		10	12	6+6	8+4+2	8+4	88	

\*Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.

**Exit option; Award of UG Diploma in Major and Minor with 80-88 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor**

**Under Graduate Diploma Home Science - Community Resource Management  
Credit Structure (Semester V & VI)**

R: _____ E										
Level	Semester	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Cum. Cr. / Sem.	Degree/ Cum. Cr.
		Mandatory	Electives							
5.5	V	<b>10</b> <b>Physical Ergonomics</b> (Theory) (2 cr) <b>Brand and Retail Management</b> (Theory) (2 cr) <b>Human Resource Management</b> (Theory) (2 cr) <b>Extension Development</b> Theory (2 cr) <b>Strategies for Prevention of Occupational Injuries</b> Practical (2 cr)	<b>4</b> <b>Elective 1</b> <b>Residential interior</b> (Theory) (2 Cr) <b>Kitchen planning and residential lighting</b> (Practical) (2 cr) <b>OR</b> <b>Elective 2</b> <b>Accommodation Management</b> (Theory) (2 Cr) <b>Accommodation Management</b> (Practical) (2 cr)	4				FP/CEP: 2	22	UG Degree Home Science - Community Resource Management  132 Credits
	VI	<b>10</b> <b>Total Quality Management and Workplace</b> (Theory) (2 cr) <b>Outreach and Social Interaction</b> Theory (2 cr) <b>Customer Resource Management</b> Theory (2 cr) <b>Talent Management</b> (Theory) (2 cr) <b>Ergonomic investigation and risk assessment</b> (Practical) (2 cr)	<b>4</b> <b>Building materials</b> (Theory) (2 cr) <b>Interior Working Drawing</b> (Practical) (2 cr) <b>Business Tourism (MICE)</b> (Theory) (2 cr) <b>Airport Ground Operation</b> (Practical) (2 cr)	4				OJT :4	22	
	Cum Cr.	48	8	18	12	8+6	8+4+2	8+6+4	132	

\*Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.

Exit option: Award of UG Degree in Major with 132 credits OR Continue with Major and Minor

[Abbreviation - OE – Open Electives, VSC – Vocation Skill Course, SEC – Skill Enhancement Course, (VSEC), AEC – Ability Enhancement Course, VEC – Value Education Course, IKS – Indian Knowledge System, OJT – on Job Training, FP – Field Project, CEP – Continuing Education Program, CC – Co-Curricular, RP – Research Project]



# **Semester – I**

**Syllabus**  
**B.Sc. Home Science – Community Resource Management**  
**(Semester - I)**  
**MAJOR**

Course Code	Course Title	Theory/ Practical	Hours	Credits	Marks
	<b>Principles of Management</b>	<b>Theory</b>	<b>30</b>	<b>2</b>	<b>50</b>

**Course Objectives:**

1. Memorize key terminology and definitions relevant to the study of management principles.
2. Interpret the basic functions of management and their significance within organizational contexts.
3. Evaluate the effectiveness of management strategies and decision-making processes employed in various organizational settings.
4. Develop comprehensive management plans incorporating elements from both units to address organizational needs and achieve strategic objectives.

**Course Outcomes:**

CO. No.	At the successful completion of the course, students will be able to:
CO1	demonstrate an understanding of the key concepts, principles, and theories introduced in the field of management, as covered in the unit on Introduction to Management.
CO2	develop the ability to identify and explain the basic functions of management, including planning, organizing, leading, and controlling, and understand their significance in organizational settings.
CO3	apply management concepts and theories to analyze and solve real-world management problems, particularly those related to the functions of planning, organizing, leading, and controlling.
CO4	demonstrate proficiency in evaluating management strategies and decision-making processes used in various organizational contexts, employing critical thinking skills to assess their effectiveness and appropriateness.
CO5	develop the skills necessary to communicate management concepts and ideas effectively, both orally and in writing, and collaborate with peers to develop and present comprehensive management plans addressing organizational challenges and opportunities.

S.No.	Course Content	Hours
1.	<p><b>A. Introduction to Management:</b></p> <ul style="list-style-type: none"> <li>● Definition of management</li> <li>● Importance and role of management</li> <li>● PODSCORB</li> <li>● Fayol's principles of management</li> </ul> <p><b>B. Modern Management Challenges and Opportunities:</b></p> <ul style="list-style-type: none"> <li>● Levels of Management</li> <li>● Managerial Grid</li> <li>● Entrepreneurship</li> </ul> <p><b>C. Corporate Social Responsibility</b></p> <ul style="list-style-type: none"> <li>● Meaning, Definition, Features, Scope,</li> <li>● Social Responsibility of a Manager, Stakeholders, Government, and Society.</li> </ul> <p><b>Functions of Management</b></p> <p><b>D. Planning:</b></p> <ul style="list-style-type: none"> <li>● Meaning and Definition</li> <li>● Steps in the Planning Process</li> <li>● Importance, Advantages, and Disadvantages of Planning</li> <li>● Types of Plans</li> <li>● Management by Objectives (MBO)</li> </ul> <p><b>E. Decision Making:</b></p> <ul style="list-style-type: none"> <li>● Definition, Meaning,</li> <li>● Decision-Making Styles</li> <li>● Decision-Making Process</li> <li>● Types of Decisions.</li> </ul>	15

2.

**A. Organizing:**

- Definition, Meaning, Characteristics
- Process
- Organization Chart – Types, Contents, Uses, Limitations, Factors Affecting Organizational Chart,
- Organizational Structure – Line Organization, Line and Staff, Functional, Project, Matrix, and Virtual

**B. Departmentation:**

- Definition, Meaning, Characteristics
- Process

**C. Delegation:**

- Delegation of Authority
- Responsibility and Accountability

**D. Direction**

- Definition, Nature, Need, and Importance
- Principles of Directing

**E. Supervision**

- Role and Functions of a Supervisor
- Effective Supervision

**F. Controlling:**

- Control Process
- Managerial Control – Types and Phases

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**Reference Books:**

- Aggarwala, D. V. (2002). *Management By Objectives (MBO)*. India: Deep & Deep Publications.
- Arora, S. P. (2009). *Office Organization and Management*. Mumbai. Vikas Publishing House.
- Aswathappa, K. (2013). *Human Resource Management and cases*.
- Bhat, A. (2015). *Management: Principles, Process, and Practices* (1st Ed.) New Delhi. Oxford University Press.
- Bright, D. S., Cortes, A. H., Hartmann, E. (2023). *Principles of Management*: Independently Published.
- Carpenter, M., Banee, T. & Erdogan, B. (2009). *Principles of Management*. Pearson Education Pvt. Ltd.
- Certo, S. C., & Certo, S. T. (2006). *Modern Management* (10th Ed.). Delhi, India: Pearson Prentice Hall.
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- Ivancevich, J. M., Matteson, M. T. (2002). *Organizational Behaviour and Management*. United States: McGraw-Hill.
- Koontz, H., Weihrich, H. (2012). *Essentials of Management - An International & Leadership Perspective*. (8th Ed.). Tata McGraw Hill Education.
- Management Principles And Applications*. (2021). (n.p.): Instant Publication.
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- Principles of Management*. (2020). United States: Jyothis Publishers.
- Principles of Management: Functions and Fundamentals of Effective Management*. (2020). United States: Prabhu Thankaraju.
- Roopa Rao (2018). *Principles of Resource Management*. Self-Published.
- Shinde, S. V. (2018). *Functions Of Management*. (n.p.): Lulu Press, Incorporated.
- Suman Singh, Sapna Dinesh, Roopa R. Rao. (2024). *Resource Management (RM: ASSET) Advancements & Strategies for Education and Transformation* (Hardbound). Satish Serial Publishing House, Delhi. ISBN 9788119105403
- Taylor, F. W. (2022). *The Principles of Scientific Management*. Czechia: DigiCat.

**Syllabus**  
**B.Sc. Home Science – Community Resource Management**  
**(Semester - I)**  
**MAJOR**

Course Code	Course Title	Theory/ Practical	Hours	Credits	Marks
	<b>Introduction to Ergonomics</b>	<b>Theory</b>	<b>30</b>	<b>2</b>	<b>50</b>

**Course Objectives:**

- To define ergonomics and describe its significance in various domains, including workplace design, product design, and human-computer interaction.
- To demonstrate an understanding of the historical development of ergonomics and its evolution as an interdisciplinary field encompassing psychology, engineering, and physiology.
- To explain the basic principles and concepts underlying ergonomics, including the relationship between human capabilities and system design.
- To comprehend the key ergonomic factors influencing human performance, safety, and comfort in different work environments and tasks.
- To apply ergonomic principles to analyze workplace settings, equipment, and tools to identify ergonomic hazards.

**Course Outcomes:**

CO. No.	At the successful completion of the course, students will be able to:
CO1	develop a comprehensive understanding of the fundamental principles and concepts of ergonomics, including its definition, scope, and historical evolution.
CO2	gain insight into the three domains of ergonomics and their relevance in addressing human factors in various environments such as workplaces, healthcare, transportation, consumer products, etc.
CO3	develop thinking skills to evaluate ergonomic design solutions and assess their effectiveness in addressing human needs, preferences, and limitations.
CO4	effectively collaborate with peers to articulate ergonomic concepts, principles, and issues, brainstorm potential solutions, and justify design decisions based on ergonomic considerations.
CO5	apply interdisciplinary knowledge and analytical techniques to address complex ergonomic issues and propose actionable recommendations for integrating ergonomic design principles into practical applications across different domains.

Sr. No.	Course Content	Hours
1.	<b>A. Introduction</b> <ul style="list-style-type: none"> <li>● Meaning, Definition, and basic terms</li> <li>● Scope of Ergonomics</li> <li>● Goals/Aims of Ergonomics</li> <li>● History of Ergonomics</li> <li>● Interdisciplinary nature of Ergonomics</li> </ul> <b>B. Man- Man-Machine-Environment Systems</b> <ul style="list-style-type: none"> <li>● Types of system</li> <li>● Human Characteristics, Capabilities, and Limitations</li> <li>● Machine Components and Limitations</li> </ul>	15
2.	<b>Domains of Ergonomics</b> <b>A. Organizational Ergonomics</b> <ul style="list-style-type: none"> <li>● Micro and Macro Ergonomics</li> <li>● Work Design</li> <li>● Work organization</li> <li>● Problems arising from poor work design</li> </ul> <b>B. Cognitive Ergonomics</b> <ul style="list-style-type: none"> <li>● Perception, Cognition</li> <li>● Memory</li> </ul>	15

- Decision Making
- Perception of Risk
- Work Stress
- Human Error
- C. Physical Ergonomics**
  - Physical Factors of the Work Environment – Introduction, Meaning, Importance
  - Risks and Hazards in the Workplace

**Reference Books:**

Basics of Ergonomics. (2022). (N.P.): A. G. Publishing House (AGPH Books).  
 Bridger, R. (2017). *Introduction to Human Factors and Ergonomics*. United Kingdom: CRC Press.  
 Chengalur, S. N., Rodgers, S. (2004). *Kodak's Ergonomic Design for people at work*. New Jersey. John Willey and Sons.  
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**Syllabus**  
**B.Sc. Home Science – Community Resource Management**  
**(Semester - I)**  
**VSC/SEC**

**\*Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.**

Course Code	Course Title	Theory/ Practical	Hours	Credits	Marks
	Basic Health Assessment	Practical	60	2	50

**Course Objectives:**

- To familiarize students with the instruments and equipment commonly used in ergonomic research, enabling them to operate and interpret data from these tools effectively.
- To provide students with a foundational understanding of human physiology, focusing on the structural composition and functions of organ systems relevant to ergonomics.
- To equip students with the knowledge and skills necessary to assess vital physiological parameters accurately, including body weight, temperature, pulse rate, respiration rate, and blood pressure.
- To train students in conducting physical fitness assessments using various methods such as body composition analysis, somatotyping, and measurement of muscle strength and flexibility.
- To enable students to evaluate physiological work stress parameters and determine VO<sub>2</sub> max through practical exercises and tests.

**Course Outcomes:**

CO. No.	At the successful completion of the course, students will be able to
CO1	demonstrate proficiency in operating and interpreting data from instruments and equipment used in ergonomic research, enhancing their ability to conduct meaningful research in the field.
CO2	develop a comprehensive understanding of human physiology, allowing them to recognize the implications of physiological responses in ergonomic contexts.
CO3	be able to accurately assess vital physiological parameters across different age groups and conditions, ensuring reliable data collection for ergonomic studies.
CO4	acquire practical skills in conducting physical fitness assessments, including body composition analysis, somatotyping, and muscle strength measurement, enabling them to evaluate individuals' physical fitness levels effectively.
CO5	demonstrate competence in evaluating physiological work stress parameters and determining VO <sub>2</sub> max, enhancing their ability to assess and optimize workplace conditions for worker health and safety.

S.No.	Course Content	Hours
1.	<p><b>Introduction to Ergonomics Research</b></p> <p><b>A. Instruments and Equipment Used in Ergonomic Research</b></p> <p><b>B. Fundamentals of Human Physiology</b></p> <ul style="list-style-type: none"> <li>Basic comprehension of the structural composition of various human body organ systems, their functionalities, and their reactions to pathological circumstances from the perspective of ergonomics studies</li> </ul> <p><b>C. Vital Physiological Parameters</b></p> <ul style="list-style-type: none"> <li>Describing and understanding factors that influence each vital sign</li> <li>Identifying equipment used to assess vital signs</li> <li>Recognize normal vital sign range among various age groups</li> <li>Recording basic physiological parameters</li> </ul> <p>Such as Body weight, Height/Stature, Body temperature, Pulse rate, Heart rate (at rest and different working conditions), Respiration rate, and Blood Pressure</p>	30
2.	<p><b>Physical Fitness Assessment</b></p> <ul style="list-style-type: none"> <li>Body Composition, Body Fat Percentage by Skinfold method, Anthropometric method</li> <li>Determination of somatotypes</li> <li>BMI, WHR</li> <li>Assessment of Muscle Mass</li> <li>Determination of muscle strength by dynamometer - hand grip strength, pinch strength, leg and back strength.</li> <li>Measurement of flexibility, agility, power, and maximal work capacity</li> <li>Measurement of reaction time (hand, foot) and movement time</li> <li>Evaluation of physiological work stress parameters</li> <li>Determination of VO<sub>2</sub> max by indirect method (Queens College Test), Harvard Step test</li> </ul>	30

**Reference Books:**

- Acutt, J., Hattingh, S. (2004). *Occupational Health: Management and Practice for Health Practitioners*. Zambia: Juta.
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# **Semester - II**

**Syllabus**  
**B.Sc. Home Science – Community Resource Management**  
**(Semester - II)**  
**MAJOR**

Course Code	Course Title	Th/Pr	Hours	Credits	Marks
	Personal Finance	Theory	30	2	50

**Course Objectives:**

- To provide students with an understanding of the fundamental concepts and principles of personal finance, including the time value of money, budgeting, and financial planning.
- To introduce students to the basics of investment fundamentals, including savings plans and the various types of investment instruments.
- To familiarize students with the concept of investment risks and the process of investment planning, including assessing and handling risks and understanding investment returns.
- To educate students about insurance planning, including the different types of insurance products and their relevance in managing financial risks.
- To equip students with knowledge of taxes, types of taxes, and tax planning strategies, as well as factors influencing tax plans.
- To provide students with an understanding of retirement planning, including the importance of retirement savings and the different types of annuities.

**Course Outcomes:**

CO.No.	At the successful completion of the course, students will be able to:
CO1	demonstrate an understanding of key concepts in personal finance, such as the time value of money, budgeting techniques, and the financial planning process.
CO2	analyze different investment options and develop effective savings plans based on their financial goals and risk tolerance.
CO3	assess various types of investment risks and develop strategies to mitigate them through informed investment planning, and evaluate insurance products, select appropriate coverage options to manage financial risks effectively.
CO4	apply tax planning strategies to optimize their tax liabilities and maximize their financial resources.
CO5	develop retirement savings plans tailored to their individual needs and goals, considering factors such as age, income, and desired lifestyle

S.No.	Course Content	Hours
1.	<p><b>A. Introduction to Personal Finance:</b></p> <ul style="list-style-type: none"> <li>• Definition, Meaning of basic terms, importance and need,</li> <li>• Time Value of Money</li> <li>• Personal Budgets</li> <li>• Financial Planning Process</li> </ul> <p><b>B. Investment Fundamentals:</b></p> <ul style="list-style-type: none"> <li>• Savings Plan</li> </ul> <p><b>C. Investment Risks and Investment Planning:</b></p> <ul style="list-style-type: none"> <li>• Meaning and Definition of Risks, Types of Investment risks</li> <li>• Pure Risk – Meaning, Types</li> <li>• Assessing and Handling Risks</li> <li>• Investment Returns</li> <li>• Investment Instruments – Mutual Funds, Bonds, Stocks, Commodities</li> </ul>	15



2.	<p><b>A. Insurance Planning</b></p> <ul style="list-style-type: none"> <li>● Meaning, Types</li> <li>● Insurance and Risks</li> <li>● Insurance Products - Life insurance, General insurance, Fire insurance, Medical and health insurance, Property insurance, Motor insurance</li> </ul> <p><b>B. Taxes and Tax Planning:</b></p> <ul style="list-style-type: none"> <li>● Taxes and Types of Taxes</li> <li>● Tax Planning</li> <li>● Factors Affecting Tax Plans</li> <li>● Calculation of Personal Income Tax</li> </ul> <p><b>C. Retirement Planning:</b></p> <ul style="list-style-type: none"> <li>● Meaning, Importance, Need, Implications</li> <li>● Annuities and Types</li> </ul> <p><b>D. Estate Planning</b></p>	15
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**Reference Books:**

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**Syllabus**  
**B.Sc. Home Science – Community Resource Management**  
**(Semester - II)**  
**MAJOR**

Course Code	Course Title	Th/Pr	Hours	Credits	Marks
	<b>Introduction to Tourism</b>	<b>Theory</b>	<b>30</b>	<b>2</b>	<b>50</b>

**Course Objectives:**

1. Provide students with an overview of the history and evolution of the travel and tourism industry.
2. Familiarize students with the various career paths and opportunities available in the travel and tourism sector.
3. Introduce students to the different components and types of tourism, including their characteristics and significance.
4. Explore the socio-economic and environmental impacts of tourism on destinations and local communities.
5. Equip students with knowledge of the legal aspects and regulations governing travel and tourism operations, both internationally and domestically.

**Course Outcomes:**

CO.No.	At the successful completion of the course, students will be able to:
CO1	demonstrate a comprehensive understanding of the historical development and growth of the travel and tourism industry
CO2	identify and evaluate various career options within the travel and tourism sector and develop career goals accordingly.
CO3	gain insights into the different components and types of tourism and their respective roles in shaping the industry.
CO4	analyze the socio-economic and environmental impacts of tourism and propose sustainable tourism practices.
CO5	exhibit proficiency in understanding and complying with legal regulations and requirements related to travel and tourism operations

S.No.	Course Content	Hours
1.	<p><b>Overview of the Travel and Tourism Industry:</b></p> <p><b>A. History of Travel and Tourism</b></p> <ul style="list-style-type: none"> <li>● History of Travel Agency &amp; Tour Operations</li> <li>● Growth of Air Travel - International / Domestic</li> </ul> <p><b>B. Careers in Travel and Tourism</b></p> <ul style="list-style-type: none"> <li>● Career paths and career goals</li> <li>● Managed services, Restaurants &amp; Lodging, Club management, MICE, Recreation, Leisure, Amusement, Theme parks etc</li> <li>● Professionalism and Etiquettes</li> </ul> <p><b>C. Components of the Tourism Industry</b></p> <p><b>D. Types of Tourism</b></p> <ul style="list-style-type: none"> <li>● Ecotourism, Rural Tourism, Heritage Tourism, Medical Tourism, Culinary Tourism, Educational Tourism, etc.</li> </ul> <p><b>E. Impact of Tourism</b></p> <p><b>F. Legal Aspects in Tourism</b></p> <ul style="list-style-type: none"> <li>● Laws pertaining to Travel and Tourism – passport, visa regulation, customers, foreign exchange, immigration, etc.</li> <li>● Travel Formalities</li> <li>● Health Regulations</li> </ul>	15
2.	<p><b>Tourism Organizations, Tour Operators &amp; Travel Agents</b></p> <p><b>A. Tourism Organization</b></p> <ul style="list-style-type: none"> <li>● International Organization</li> <li>● Government &amp; Non-Government Organizations in India</li> <li>● Private Sectors in India</li> </ul> <p><b>B. Tour Operators &amp; Travel Agents</b></p> <ul style="list-style-type: none"> <li>● Role of Travel Agent and Tour Operators</li> <li>● Travel Agent – Types, Functions,</li> </ul>	15

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|  | <ul style="list-style-type: none"> <li>● Tour Operators – Types, packages tour, Guides and Escorts.</li> </ul> <p><b>C. Itinerary Planning:</b></p> <ul style="list-style-type: none"> <li>● Planning the itinerary</li> <li>● Resources for planning itinerary</li> <li>● Guidelines for Tourist</li> <li>● Places of Tourist Interest – Local. National</li> <li>● Calculation of Tour Cost</li> </ul> <p><b>D. Tourism Marketing:</b></p> <ul style="list-style-type: none"> <li>● Tourism Market segmentation, Designing a Tour Brochure</li> <li>● E-Travel</li> <li>● Web Marketing</li> </ul> <p><b>E. Future Tourism Trends</b></p> |  |
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**References:**

- Lickorish, L. J., Jenkins, C. L. (2007). *Introduction to Tourism*. United Kingdom: Taylor & Francis.
- Introduction to Tourism*. (2001). India: Atlantic Publishers & Distributors (P) Limited.
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**Syllabus**  
**B.Sc. Home Science – Community Resource Management**  
**(Semester - II)**  
**VSC/SEC**

\*Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.

Course Code	Course Title	Th/Pr	Hours	Credits	Marks
	<b>Anthropometry and Desk Ergonomics</b>	<b>Practical</b>	<b>60</b>	<b>2</b>	<b>50</b>

**Course Objectives:**

- To introduce students to the fundamental principles of anthropometry and its significance in ergonomics.
- To familiarize students with the instruments and equipment used for anthropometric measurements.
- To develop students' proficiency in collecting static and dynamic anthropometric data for ergonomic design considerations.
- To provide students with practical skills in workstation analysis and ergonomic risk assessment.
- To enable students to understand the importance of anthropometry and desk ergonomics through real-world case studies and field visits.

**Course Outcomes:**

CO. No.	At the successful completion of the course, students will be able to:
<b>CO1</b>	demonstrate a comprehensive understanding of the fundamentals of anthropometry and its role in ergonomics.
<b>CO2</b>	be proficient in using instruments and equipment for accurate anthropometric measurements.
<b>CO3</b>	collect and analyze static and dynamic anthropometric data for various ergonomic design considerations.
<b>CO4</b>	acquire practical skills in assessing workstation layout and design for optimal ergonomics.
<b>CO5</b>	apply anthropometric principles and ergonomic analysis techniques to real-world scenarios, as evidenced by their participation in case studies and field visits.

S.No.	Course Content	Hours
<b>1.</b>	<b>Introduction to Anthropometry</b> <b>A. Instruments and Equipment Used</b> <b>B. Fundamentals of Anthropometry</b> <ul style="list-style-type: none"> <li>• Definition, importance of Anthropometry in Ergonomics,</li> <li>• Anthropometric Data – static, Dynamic, Newtonian</li> </ul> <b>C. Anthropometric Data Collection Methods</b> <ul style="list-style-type: none"> <li>• Recording static and dynamic anthropometric data for different ergonomic design considerations <ul style="list-style-type: none"> <li>- Standing measurements</li> <li>- Sitting measurements</li> <li>- Measurement of head</li> <li>- Measurement of girth</li> <li>- Measurement of hand</li> <li>- Measurement of foot</li> </ul> </li> <li>• Statistical analysis of the data and interpretation of findings</li> <li>• Determining the relationship of anthropometric dimensions of workers with space requirements for some selected activities</li> </ul>	<b>30</b>
<b>2.</b>	<b>A. Desk Ergonomics</b> <ul style="list-style-type: none"> <li>• Principles of ergonomic workstation design</li> <li>• Assessment of workstation layout and design</li> <li>• Adjustment of furniture and equipment for optimal ergonomics</li> </ul> <b>B. Workstation Analysis:</b> <ul style="list-style-type: none"> <li>• Hands-on practice sessions for measuring anthropometric dimensions</li> <li>• Analysis of ergonomic risks in different work environments</li> </ul>	<b>30</b>

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|  | <ul style="list-style-type: none"> <li>•</li> <li>C. Case studies highlighting the importance of anthropometry and desk ergonomics in various industries</li> <li>D. Field Visits</li> </ul> |  |
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**Reference Books:**

- A Laboratory Manual of Anthropometry.* (2012). United States: HardPress.
- Anthropometry: Types, Uses and Applications.* (2021). United States: Nova Medicine & Health.
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- Wilder, H. H. (1920). *A Laboratory Manual of Anthropometry.* United States: P. Blakiston's Son & Company.

**QUESTION PAPER PATTERN**  
(External and Internal)  
**B.Sc. SEMESTER I/II/III/IV/V/VI**

**Evaluation for Theory (4 Credits for 100 Marks)**

<b>CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)</b>	<b>Marks</b>
Class participation/Quiz/Review of literature and guided discussions/Q&A sessions	20
Class tests/PPT Presentations and relevant planned assignments	20
<b>Total Marks for Internal Assessment</b>	<b>40</b>
<b>SEMESTER-END THEORY EXAMINATION</b>	
<b>All questions are compulsory with internal choice.</b>	
Question 1 – Unit 1	12
Question 2 – Unit 2	12
Question 3 – Unit 3	12
Question 4 – Unit 4	12
Question 5 – From Multiple Units	12
<b>Total Marks for Semester End Examination</b>	<b>60</b>

**Evaluation for Theory (2 Credits for 50 Marks)**

<b>CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)</b>	<b>Marks</b>
Class participation/Quiz/Review of literature and guided discussions/Q&A sessions	10
Class tests/PPT Presentations and relevant planned assignments	10
<b>Total Marks for Internal Assessment</b>	<b>20</b>
<b>SEMESTER-END THEORY EXAMINATION</b>	
<b>All questions are compulsory with internal choice.</b>	
Question 1 – Unit 1	10
Question 2 – Unit 2	10
Question 3 – From Multiple Units	10
<b>Total Marks for Semester End Examination</b>	<b>30</b>

**Evaluation for Practical (2 Credits for 50 Marks)**

<b>CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)</b>	<b>Marks</b>
Class Participation/Internal Assessment during laboratory work/experiments/practical tasks	10
Journal/Portfolio/Presentation/Reports/Case papers/Assignments	10
<b>Total Marks for Internal Assessment</b>	<b>20</b>
<b>SEMESTER-END PRACTICAL EXAMINATION</b>	
<b>All questions are compulsory with internal choice.</b>	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Journal/Portfolio/Report/Viva-Voce	10
<b>Total Marks for Semester End Examination</b>	<b>30</b>

## Question Paper Pattern (NEP Syllabus)

### THEORY EXAMINATION

<b>Marks: 30</b>	<b>1 Hour</b>
<b>Upto 50% choice to be given within each Question.</b>	
<b>Questions may be divided into sub questions as a, b, c....</b>	
<b>Allocation of marks depends on the weightage of the topics in the units; no sub-question should be of 1 mark or less</b>	
Q1 Unit 1	10 marks
Q2 Unit 2	10 marks
Q3 Mix of Unit 1 and 2	10 marks
<b>TOTAL</b>	<b>30 Marks</b>

<b>Marks: 60</b>	<b>2 Hours</b>
<b>Up to 50% choice to be given within each Question.</b>	
<b>Questions may be divided into sub questions as a, b, c....</b>	
<b>Allocation of marks depends on the weightage of the topics in the units; no sub-question should be of 2 marks or less</b>	
Q1 Unit 1	12 marks
Q2 Unit 2	12 marks
Q3 Unit 3	12 marks
Q4 Unit 4	12 marks
Q5 Mix of all units	12 marks
<b>TOTAL</b>	<b>60 Marks</b>

### PRACTICAL EXAMINATION

<b>Marks: 30</b>	<b>2 Hours</b>
Q1 Unit 1	10 Marks
Q2 Unit 2	10 Marks
Journal/Portfolio/Report/Viva-Voce	10 Marks
<b>TOTAL</b>	<b>30 Marks</b>

### Letter Grades and Grade Points

Semester GPA/ Program CGPA Semester/ Program	% of Marks	Alpha-Sign/ Letter Grade Result	Grading Point
9.00 - 10.00	90.0 – 100	O (Outstanding)	10
8.00 - < 9.00	80.0 - < 90.0	A+ (Excellent)	9
7.00 - < 8.00	70.0 - < 80.0	A (Very Good)	8
6.00 - < 7.00	60.0 - < 70.0	B+ (Good)	7
5.50 - < 6.00	55.0 - < 60.0	B (Above Average)	6
5.00 - < 5.50	50.0 - < 55.0	C (Average)	5
4.00 - < 5.00	40.0 - < 50.0	P (Pass)	4
Below 4.00	Below 40.0	F (Fail)	0
Ab (Absent)	-	Ab (Absent)	0



## Justification for B.Sc. Home Science – – Community Resource Management

1.	I	<p>The syllabus for B.Sc. Home Science – Community Resource Management formulated with great care in accordance with the National Education Policy (NEP 2020). The program aims at imparting technical knowledge and hands-on skills. It enables learners to acquire fundamental knowledge and skills that are life-oriented, career-oriented and community-oriented, towards building a profession for self-growth and societal welfare. As the specialized fields of industry and education is continuously evolving and the Indian market can expand nationally and globally, this program will empower students through skill-building and knowledge enhancement to meet our nations and global needs.</p> <p>This course has been planned with a foresight into the increasing demand for practical knowledge and skills required in the specific industry of expertise and specialization. It will provide gainful employment opportunities in the ever-expanding technology-driven industry.</p> <p>It is an excellent blend of theory and practical and it has special relevance to specific industries with fundamental knowledge and experience in entrepreneurship skills, fieldwork, rural camp, internship, industrial visits, computer-aided technologies, marketing and skills in the areas of Home Science. Value Education is integral to the curriculum rooting some basic concepts of subjects into Indian Knowledge System (IKS).</p> <p>There are core areas that include theoretical knowledge and practical skill sets training along with vocation based skills with ample opportunities for ability and skill enhancement. It aims at building and nurturing learner's personality as responsible citizens competent with language and intuitive, proactive, positive attitudes, who can bring about a change in society.</p> <p>The program is designed to train students with job relevant skills through laboratory work, on-the-job training and apprenticeship in sustainable start-ups and entrepreneurial ventures, it enables the students to find career paths in the relevant industries research centers NGOs, schools, hospitals, hotels etc. The curriculum is supplemented with extension work and educational trips for experiential learning. The curriculum addresses an understanding of Indian Knowledge System pertaining to traditional culture and heritage and its relation to traditional concepts and practices. It fosters appreciation through multicultural sensitivity.</p> <p>Research and field projects is included as an essential component of the program to develop an innovative and scientific temper.</p> <p>In addition to this, students are encouraged to undertake industry- and socially-relevant field projects and research projects. They are also motivated to participate in research competitions at various levels, publish research findings and engage in networking and collaboration.</p>
2.	Whether the UGC has recommended the course:	Yes
3.	Whether all the courses have commenced from the academic year 2023-24	No
4.	The courses started by the University or are self-financed, whether adequate number of eligible permanent faculties are available?	Aided Affiliated to the University of Mumbai Adequate eligible permanent faculty and CHB/visiting faculty appointed for vacant posts till posts sanctioned
5.	To give details regarding the duration of the Course and is it possible to compress the course?	No

6.	The intake capacity of each course and no. of admissions given in the current academic year:	200
7.	Opportunities of Employability/ Employment available after undertaking these courses	The program has multi-faceted dimensions of design and technical aspects of Home Science. Students have ample employment and entrepreneurial opportunities on successful completion and graduation from <b>B.Sc. Home Science - Community Resource Management</b> are well placed in a realm of lucrative employment prospects unfolds. Graduates are poised for dynamic career across industries/sectors like management, ergonomics, interior design, and hospitality management. This specialized education empowers individuals to seamlessly integrate their knowledge into real-world scenarios, becoming sought-after professionals capable of strategic decision-making, innovative design, and adept customer service. With diverse skill sets, the graduates can excel in roles ranging from resource optimization to leadership positions, offering substantial contributions to their chosen sectors. This program ensures that the graduates are job- ready and will be positioned for impactful careers in the ever- evolving landscape of community resource management.

**Sign of the BOS Chairperson**  
**Name of the Chairperson:**  
**Prof. Dr. Vishaka Ashish Karnad**

**Sign of the Offg. Associate Dean**  
**Name of the Associate Dean**  
**Name of the Faculty**

**Sign of the Offg. Dean**  
**Name of the Offg. Dean**  
**Name of the Faculty**