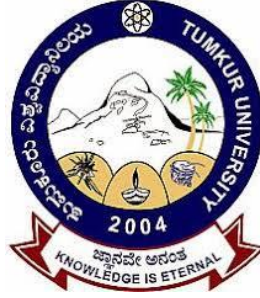


# TUMKUR UNIVERSITY



## Syllabus

for

**Bachelor of Science in Home Science**

**(I and II Semesters)**

**Effective from the Academic Year 2026-27**

# BSc I and II Semesters Home Science

## Curriculum

<b>Name of the Degree Program</b>	<b>: BSc</b>
<b>Subject</b>	<b>: Home Science</b>
<b>Discipline Core</b>	<b>: Home Science</b>
<b>Year of Implementation</b>	<b>: 2026-27</b>

### Course Structure for First and Second Semesters (Core Papers)

Semester	L	P	T	Total Credits
	4 h/week	4 h/week	-	
I	4 credits	2 credits	-	6
II	4 credits	2 credits	-	6

### Examination Structure for First and Second Semesters

Semester	Paper title	Semester End Examination		Internal Assessment Marks	Total Marks
		Duration	Marks		
I	HSCS101: Home Science-I	3h	80	20 (Average of Two Tests 10 M + Average of Two Assignments 10 M)	100
I	HSCSP101: Home Science-I Practical	3h	40	10 (One Assignment 5M + One Test 5M)	50
II	HSCS101: Home Science -II	3h	80	20 (Average of Two Tests 10 M + Average of Two Assignments 10 M)	100
II	HSCSP101: Home Science-II Practical	3h	40	10 (One Assignment 5M + One Test 5M)	50

# BSc I and II Semesters Home Science

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## Home Science HSCS101: Home Science -I

Contact Hours: 60

Workload: 4 Hours/Week

Credit Points: 4

Theory Evaluation: Continuous Internal Assessment -20 Marks  
Semester End Examination -80 Marks

### Course Objectives:

#### To attain theoretical knowledge about:

1. Understanding the concept of growth and development.
2. The study of prenatal development.
3. Examining the importance of developmental tasks from prenatal stage to childhood years.
4. Assessing the importance of growth and development in childhood years.
5. Determining the importance of nutrition and immunization during early years.

### Course Specific Outcomes

#### At the end of the course student would be able to:

1. Explain the need for Holistic Development of the child
2. Understand the importance of domains of development during early years.
3. Discuss the significance of a stimulating environment
4. Explain the concept of developmental delay
5. Compare and contrast the programs offered for children at early childhood centres.

### Unit-I: PRENATAL DEVELOPMENT

15 Hours

Introduction: Meaning, scope and stages of Human Development.

Genetic foundations: Genes, chromosomes, DNA, types of genetic inheritance- single gene, polygenic, sex linked.

Pregnancy-Conception, Signs, Symptoms and discomforts, Complication, Prenatal development- Stages, factors influencing prenatal development.

Infertility- Causes and treatment.

Prenatal and Postnatal care of the mother.

Child birth- Stages and types.

### UNIT-II: NEONATE AND INFANCY

15 Hours

Neonate: Definition, characteristics and adjustments, sensory capacities and reflexes. Importance of 1000 days.

Infancy: Definition, characteristics, developmental tasks, physical, motor, social, emotional and cognitive development, exclusive breast feeding, weaning, supplementary foods, immunization. Developmental delays. Concept of assessment. Early Stimulation- Importance and types.

### **UNIT- III: EARLY CHILDHOOD YEARS**

**15 Hours**

Definition, characteristics, developmental tasks, physical, motor, cognitive, social, emotional and language development. Common behavioral problems- causes and management. Care during early childhood years. Importance of Nutrition. Common childhood ailments. Screen time usage.

### **UNIT-IV: LATE CHILDHOOD YEARS**

**15 Hours**

Definition, characteristics, developmental tasks, physical, cognitive, social, emotional and language development. Interests of school children, Influence of peer group and media. Screen time usage- effects and managements.

#### **References/ Books**

1. Asha Rani (2011). Child Psychology. New Delhi. Centrum Press.
2. Banerjee, B G (2014). Child Development and Socialization. Deep And Deep, Publications, New Delhi.
3. Elizabeth B Hurlock., (2024). Child Development, 7<sup>th</sup> Edition. McGraw-Hill.
4. Feldman Robert S. (2013). Development Across the Life Span, 7th edition, United States, Pearson Education
5. Frost, J. L. Wortham, S. C and Reifel, S. (Ed.). (2012). Play and Child Development. New Jersey, USA:Pearson Education Inc.
6. Mishra L. (2012), Early Childhood Care and Education, New Delhi, APH Publishing Corporation
7. Naresh Gupta (2019). Human Development in India. Emerald Publishers.
8. Neelima Gupta and Vinod Gupta., (2024). Introduction to Home Science (NEP Syllabus). Yellow Sapphire Publication Pvt. Ltd.
9. Premlata Mullick., (2017). Textbook of Home Science. Kalyani Publishers, New Delhi.
10. Santrock John W. (2012), Life-Span Development- 14th edition, McGraw-Hill.
11. Shumann, M. J. and Goffin, S. G. (2013). Early Childhood Education for a New Era. New York, NY: Teachers College Press.
12. Suriakanthi, A. (Ed.). (2009). Child Development. Tamil Nadu: Kavitha Publications.
13. T.S. Saraswathi, Shailaja Menon and Ankur Madan (2018). Childhoods in India: Traditions, Trends and Transformations. Routledge Publishing House.
14. Text book of Home Science (2013) for IPUC, Department of Pre-University Education, Govt. of Karnataka.

**PRACTICALS**

**HSCSP101: Home Science- I**

**Credit Points: 2**

**Teaching Hours: 4 Hrs**

**Practical Evaluation: Continuous Internal Assessment-10 marks**

**Semester End Examination: 40 marks**

**Course objective:**

**To attain practical knowledge about:**

1. Understanding the concept of developmental milestones and gaining an insight in identifying and recording neonatal reflexes.
2. Analyzing the different approaches and administrative structures of Early Childhood Care and Education (ECCE) centers like Montessori, Anganwadis, and Crèches.
3. Learning to design and develop age-appropriate to foster cognitive, language, and socio-emotional competence among school-age children.
4. Developing the skills required to execute educational programs for children.
5. Strengthening the ability to observe, document, and interpret child behavior in naturalistic settings (hospitals, schools, and community centers).

**Course outcomes:**

**At the end of the course student would be able to**

1. Explain the developmental milestones.
2. Identify and demonstrate the significance of newborn reflexes.
3. Understand the concept of educational environments and teaching methods used in various early childhood centers like Montessori and Anganwadis.
4. Design age-appropriate activities that promote language, thinking, and social skills of school children.
5. Conduct developmental activities with a group of children and document the results.

**PRACTICAL**

**16 Classes**

- |   |                                                                                                                                 |           |
|---|---------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1 | Prepare a visual aid on prenatal / postnatal care.                                                                              | 4 Classes |
| 2 | Visit a Hospital to observe reflexes of a newborn and write a report. / Prepare a visual aid on reflexes.                       | 3 Classes |
| 3 | Visit an Early Childhood centre to understand the programs – Montessori/ Play Home/ Balwadi/ Anganwadi/ Crèche. Write a report. | 3 Classes |
| 4 | Prepare an aid for Tactile Stimulation /Auditory Stimulation / Vestibular Stimulation.                                          | 3 Classes |
| 5 | Make a classroom presentation of the prepared aid in exercise 4 and write a report.                                             | 3 Classes |

**Home Science**

**HSCS102: Home Science Paper -II**

**Contact Hours: 60**

**Workload: 4 Hours/Week**

**Credit Points: 3**

**Theory Evaluation: Continuous Internal Assessment -20 Marks**

**Semester End Examination -80 Marks**

**Objectives**

To enable the students

- To understand the concepts of management.
- To know the components of Resources in management.
- To understand the importance of management in everyday life.

**Unit-I: CONCEPTS OF MANAGEMENT**

**15 Hours**

Definition, Managerial Process - Planning, Organizing, Controlling and Evaluation Decision Making- Definition, Types, Steps in Decision Making Process.

**Unit-II: RESOURCE MANAGEMENT**

**15 Hours**

Introduction and Classification of Resources. Characteristics of resources. Factors affecting the use of resources.

Time and Energy Management:

Time Management: Importance, Time plan, Tools in time management.

**Unit- III: ENERGY MANAGEMENT**

**15 Hours**

Definition, Importance, Types of Efforts required for various activities, Fatigue – Types, methods to overcome fatigue.

Work Simplification: Definition, Techniques of work simplification, Mundell's classes of change.

**Unit-IV: MONEY MANAGEMENT**

**15 Hours**

Income, Types of Income, Budget- Importance, Steps in Budgeting.

Savings- Need, Types of saving institution.

Consumer Education: Rights and Responsibility of Consumers,

Problems, Consumer Education, Consumer Aids- Brands, Labels,

Trademarks

**PRACTICALS**  
**HSCSP102: Home Science- II**

**Credit Points: 2**

**Teaching Hours: 4 Hrs**

**Practical Evaluation: Continuous Internal Assessment-10 marks**  
**Semester End Examination: 40 marks**

**PRACTICAL**

**16 Classes**

- |   |                                                                                                  |           |
|---|--------------------------------------------------------------------------------------------------|-----------|
| 1 | Plan a time and activity log for three days –Evaluate and give suggestions for improvement.      | 3 Classes |
| 2 | Work Simplification Techniques: Path way chart and Process chart.                                | 3 Classes |
| 3 | Budget Planning for Low, Middle- and High-income groups.                                         | 3 Classes |
| 4 | Banking Transaction: Open and Cross Cheque, Remit and withdrawal slip, Demand draft, NEFT, RTGS. | 4 Classes |
| 5 | Consumers Aids- Brands, Labels, Trademark.                                                       | 3 Classes |

**References:**

1. Shashi k, Gupta, Neeti Gupta, (2020), Management Concepts and Strategies, Kalyani Publishers, New Delhi.
2. Sushma Gupta and Anita Aggrawal, (2022), Text Book of Family Resource Management – Hygiene and physiology, Kalyani Publishers, New Delhi.
3. Trupathi.P.C, Reddy. (2022), Principles of Management, Tata McGraw Hills Publishing company Limited, New Delhi.
4. Veena Gandontri and Neerja Jaiswal., (2020). Management of Work in Home. Dominant Publishers and distributors.
5. Verghese.M.A, Saha, P.N.Atreya.N,(2000), Ergonomics of Women at Works, Allied Publishers, Mumbai

## BSc I and II Semesters Home Science

### Examination Pattern Core Papers (I-II Semesters BSc) Theory: 4 Credits: 100 Marks

[Summative Assessment (SA) - 80 Marks + Internal Assessment (IA) - 20 Marks]

Practicals: 2 Credits- 50 Marks

[Summative Assessment (SA) - 40 Marks + Internal Assessment (IA) - 10 Marks]

CREDITS: Lecture (L) + Practical (P) (4:2)	THEORY	PRACTICALS	TOTAL
	Maximum Marks (M)		
Internal Assessment (IA)	20 Average of two Tests (10M) + Average of two Assignments (10M)	10 1 Test (5M) 1 Assignment (5M)	30
Summative Assessment (SA)	80	40	120
Duration of End Semester Examination	3 hours	3 hours	
Maximum Marks	100	50	150

### Pattern of Question Papers for Examination and Evaluation Core Papers (I - II Semesters BSc) Theory Examination

Duration: 3 Hours	The question paper shall consist of three parts: Part A, Part B, and Part C	Max Marks: 80
Part A	Answer any 5 out of 7 questions [Q 1 to Q 7] (three questions from each unit)	$5 \times 2 = 10$
Part B	Answer any 6 out of 8 questions [Q 8 to Q 15] (two questions from each unit)	$6 \times 5 = 30$
Part C	Answer any 4 out of 6 questions [Q 16 to Q 21] (two questions from each unit)	$4 \times 10 = 40$

### Practical Examination

Duration: 3 Hours	Max. Marks: 40
Performance	30 Marks
Record	10 Marks

**TUMKUR UNIVERSITY, TUMKUR**  
**Bachelor of Science**  
**Subject: Home Science**  
**Question Paper Pattern – 2026-27 Batch Onwards**

**Duration: 3 Hours**

**Max. Marks: 80**

**Part A:**

**I. Answer any Five questions of the following. (5x2=10)**

1. .
2. .
3. .
4. .
5. .
6. .
7. .

**Part B:**

**II. Answer any Six questions of the following. (6x5= 30)**

8. .
9. .
10. .
11. .
12. .
13. .
14. .
15. .

**Part C:**

**III. Answer any Four questions of the following. (4x10= 40)**

16. .
17. .
18. .
19. .
20. .
21. .