



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

Model Syllabus for 4-Year UG Honours in B.Sc. (Home Science) as Major in consonance with Curriculum framework w.e.f. AY 2026-27

Prepared by Sri Venkateswara University, Tirupati

COURSE STRUCTURE

Year	Semester	Course	Title of the Course	No. of Hrs /Week	No. of Credits
II	III	5	Fundamentals of Food Science	3	3
			Fundamentals of Food Science-Practical	2	1
		6	Fundamentals of Textiles and Clothing	3	3
			Fundamentals of Textiles and Clothing-Practical	2	1
		7	Human Development	3	3
			Human Development-Practical	2	1

SEMESTER - III

COURSE 6: FUNDAMENTALS OF TEXTILES AND CLOTHING

Theory

Credits: 3

3 hrs/week

At the end of the course the students will be able to

- 1 Understand the use of Textile fibers in various fields.
- 2 Identify different fibers like plants, and animal fibers based on properties.
- 3 Gains knowledge on manufacturing of different textile fibers.
- 4 Understand the method of Spinning and process of yarn construction.

THEORY

Unit- Introduction to Textiles

- I**
- Introduction to textiles - Importance of study of textiles.
 - General properties of a Textile Fiber - Primary and Secondary.
 - Classification of textile fibers – Natural and manmade; cellulose, protein, synthetic and mineral

Unit-II Natural Fibers

- Cellulose fibers – Cotton and Linen - Production, properties, use and care
- Minor cellulose fibers
- Protein fibers – Silk and wool - Production, properties, use and care.

Unit-III Synthetic Fiber

- Nylon – Production, properties use and care
- Polyester – Production, properties use and care
- Acrylic fibers – Production, properties use and care

Unit – IV Mineral Fibers

- Mineral fibers – Fiber glass and Asbestos Production, properties and Uses
- Mixtures and Blends – Importance and advantages of Blending Blends of
- Natural cellulose fibers, protein fibers and manmade fibers.

Unit – V Yarns

- Yarns – Types of Yarns - Staple and Filament
- Methods of spinning – Mechanical process
- Methods of spinning – Chemical process - Wet, Dry
- Classification of yarns – simple, novelty and textured yarn

SEMESTER - III

COURSE 6: FUNDAMENTALS OF TEXTILES AND CLOTHING

Practical

Credits: 1

2 hrs/week

1. Identification and collection of Textile Fibers
 - Plant Fibers – Cotton, Linen, Jute
 - Animal Fibers – Silk, Wool
 - Synthetic Fibers – Polyester, Nylon, Acrylic
2. Identification and collection of Yarns - Simple Yarns and Novelty Yarns
3. Tests to identify textile fibers – Texture
4. Microscopic examination of fibers.
5. Examination and identification of fibers using Burning test.

REFERENCES

1. Deepali Rastogi and Sheetal Chopra (2017). Textile Science, 1st edition, Orient Black Swan Pvt. Ltd.
2. Kanwar Varinder Pal Singh. (2014). Introduction to Textiles, 1st edition, Kalyani Publishers.
3. Seema Sekhri. (2017). Text book of Fabric – Fundamentals to Finishing, 2nd edition, PHI Learning Pvt. Ltd.
4. Sushma Gupta, Neeru Garg, Renu Saini. (2018). Text book of clothing, textiles and laundry, 8th edition, Kalyani publishers.
5. Vastala, R. (2013). Text book of Textiles and Clothing, 1st edition, Published by ICAR.

CO- CURRICULAR ACTIVITIES

1. Seminar/Assignment/Quiz/Group Discussion
2. Use of ICT in Class reports and Seminars.
3. Project Work
4. Construction of garments and their exhibition.
5. Visit to nearby weaving, dyeing units and printing Centres.

4- Year UG Honours, Major
Syllabus
(2026-27)
Semester-III

Model Question Paper

Time : 3hrs

Marks:75

Part-A

Answer any Five Questions. Each Question carries 3 Marks.

5x3=15

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Answer the following questions. Each question carries 12 Marks

5x12=60

11. a) Unit-I
(Or)
b) Unit-I

12. a) Unit-II
(Or)
b) Unit-II

13. a) Unit-III
(Or)
b) Unit-III

14. a) Unit-IV
(Or)
b) Unit-IV

15. a) Unit-V
(Or)
b) Unit-V