

# HUMAN ECOLOGY AND FAMILY SCIENCES PART II



11137



राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद्  
NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

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## FOREWORD

The National Curriculum Framework (NCF) 2005 recommends that children's life at school must be linked to their life outside the school. This principle marks a departure from the legacy of bookish learning which continues to shape our system and cause a gap between the school, home and community. The syllabi and textbooks developed on the basis of NCF signify an attempt to implement this basic idea. They also attempt to discourage rote learning and the maintenance of sharp boundaries between different subject areas. We hope these measures will take us significantly further in the direction of a child-centred system of education outlined in the National Policy on Education (1986).

The success of this effort depends on the steps that school principals and teachers will encourage children to reflect on their own learning and to pursue imaginative activities and questions. We must recognise that, given space, time and freedom, children generate new knowledge by engaging with the information passed on to them by adults. Treating the prescribed textbook as the sole basis of examination is one of the key reasons why other resources and sites of learning are ignored. Inculcating creativity and initiative is possible if we perceive and treat children as participants in learning, not as receivers of a fixed body of knowledge. These aims imply considerably change in school routines and mode of functioning. Flexibility in the daily time-table is as necessary as rigour in implementing the annual calendar so that the required numbers of teaching days are actually devoted to teaching.

This textbook marks NCERT's resolve to reconstruct knowledge in all areas from the perspective of the learner and the dynamic socio-economic realities of contemporary India. The National Focus Group on *Gender Issues in Education*, appointed under the auspices of NCF-2005, emphasises the urgency of incorporating women's perspective for epistemologically redefining conventionally defined subjects like home science. We hope that the present textbook will make this subject free of gender bias and capable of challenging young minds and teachers for creative study and practical work.

NCERT appreciates the hardwork done by the Textbook Development Committee and its Chief Advisors, Neerja Sharma, Lady Irwin College, University of Delhi and Shagufa Kapadia, M.S. University, Baroda, Vadodra. We are indebted to the institutions and organisations which have generously permitted us to draw upon their resources, material and personnel. We are especially grateful to the members of the National Monitoring Committee, appointed by the Department of Secondary and Higher Education, Ministry of Human Resource Development under the Chairpersonship of *Professor* Mrinal Miri and *Professor* G.P. Deshpande, for their valuable time and contribution. We are particularly grateful to the members of the sub-committee for Human Ecology and Family Sciences (HEFS), Mariamma Varghese, *former Vice-Chancellor*, SNDT Women's University, Mumbai, and S. Anandalakshmy, *former Director*, Lady Irwin College, University of Delhi for their contribution for reviewing the textbook.

As an organisation committed to systemic reform and continuous improvement in the quality of its products, NCERT welcomes comments and suggestions which will enable us to undertake further revision and refinement.

New Delhi  
April 2009

*Director*  
National Council of Educational  
Research and Training

## PREFACE

The textbook on Human Ecology and Family Sciences (HEFS), a subject so far known as 'Home Science', has been reframed keeping in view the principles of the National Curriculum Framework – 2005 of the NCERT. Conventionally, the field of Home Science encompasses five areas, namely, Food and Nutrition, Human Development and Family Studies, Fabric and Apparel, Resource Management, and Communication and Extension. All these domains have their specific content and focus that contribute to the study of the individual and the family in Indian socio-cultural context. They also provide ample scope for professional avenues of higher education and career opportunities in this applied field. Many components of the field have grown to become specialised areas and even super-specialisations. They range from professions catering to various health and service institutions/agencies, educational organisations, industry and business houses of textiles, garments, foods, toys, teaching-learning materials, labour saving devices, ergo-nomically appropriate equipment and work stations. In Class XI the 'self and family' and the 'home' are focal points for understanding the dynamics of individual lives and social interaction. In Class XII, the emphasis will be on 'work and careers' through the life-span.

The subjects in HEFS concern themselves with enhanced human resources as well as productivity, and with better quality of life for individuals and society in general. People cannot be productive if they are physically unwell due to unhygienic personal and environmental conditions, children cannot learn if they are mal-nourished, or scarred from abuse and neglect, people cannot work if disturbed by family turmoil or resource management problems, or when preoccupied with rejection in the family or domestic violence. Conversely, human beings whose development is fostered by positive environmental surroundings, nurturing relationships, good nutrition, access to basic amenities for health, safety and sanitary living conditions, can be well-adjusted and productive citizens.

The possibilities of teaching and research careers are present at all levels of education, be it at school or college or university. To the professionals in the specialisation of Food and Nutrition, the spectrum of opportunities is wide ranging from the service sector as dietitians, healthcare consultants/counsellors to the food industry, in catering and food service management/institutional management, in accordance with the thrust of their educational inputs and acquired interests, skills and competencies. For professionals in Human Development and Family Studies, job opportunities range from being at several cadres of functionaries in social development organisations for children, adolescents, women and families, in early childhood care and education programmes, to being professionals in counselling settings at various levels and age groups. Those trained in Fabric and Apparel find their future careers in textile design, textile or fashion or garment industry, and entrepreneurship.

To the Resource Management trainees, the career choices abound between interior decoration, hospitality administration, ergonomics, to consumer

education and services as well as entrepreneurship, event management, investment and insurance enterprising. Those who specialise in Communication and Extension can work in media related fields, or be welfare and programme officers, administrators and supervisors in field-based activities of NGOs, private and public sector organisations.

The new textbook has attempted to break away from the conventional framework of the discipline in significant ways. In the new conceptualisation the boundaries between different areas of the discipline have been dissolved. This has been done to enable students to develop a holistic understanding of life in the home and outside. A special effort has been made to communicate respect for every student's life at home and in society by making the curriculum appropriate for both boys and girls, living in different contexts, including those who are homeless. It has also been ensured that all the chapters address the significant principles of equity, equality and inclusiveness. These include gender sensitivity, respect for diversity and plurality in relation to rural-urban and tribal location, caste, class, value for both transformative traditions and modern influences, concern for society and pride in national symbols.

The practicals have an innovative and contemporary character and reflect the utilisation of new technology and applications that would strengthen critical engagement with the lived realities of people. More specifically, there is a deliberate shift to field-based experiential learning. The practicals are designed to foster critical thinking. Further, conscious effort has been made to move away from stereotyped gender roles, thus making the experiences more inclusive and meaningful for both boys and girls. It is imperative that the practicals are conducted keeping in mind the available resources.

The textbook adopts a developmental framework using the life-span approach. However, it is structured a little differently in terms of the sequence of stages in human development. The first unit begins with adolescence, as this is the stage of development being experienced by the student. Beginning with one's own stage of development would instill interest and enable identification with the physical, emotional, social and cognitive changes that the student is undergoing. Once the adolescent learner develops some understanding of the self, the second unit spans to the diverse contexts in which one functions — these include the family, school, community and society. Relationships, needs and concerns stemming from each context are dealt with in this unit. Following this are two units dealing with the study of ecological and family issues arising in childhood and adulthood respectively. This approach would help the learner understand and analyse the significance of nutrition, health and well-being, growth and development, education and communication, apparel and management during these two phases of life, thereby completing the cycle of development. Thus the textbook addresses some significant concerns and challenges of each life stage, providing reasonable suggestions and resources necessary to enhance the quality of life of self, family, community and society.

## OBJECTIVES

The HEFS textbook has been framed to enable the learners to

1. develop an understanding of the self in relation to family and society.
2. understand one's role and responsibilities as a productive individual and as a member of one's family, community and society.
3. integrate learning across diverse domains and form linkages with other academic subjects.
4. develop sensitivity and critical analysis of issues and concerns of equity and diversity.
5. appreciate the discipline of HEFS for professional careers.

## NOTE FOR THE TEACHERS

As mentioned in the Preface, this textbook is intended to reflect a holistic perspective of what has been conventionally known as Home Science. The textbook is structured in two parts, i.e., Part – I and Part – II with a total of four units comprising 19 chapters. The units are organised along a developmental framework. Unit I begins with the stage of adolescence and related concerns. Unit II deals with the expanding interactions of the adolescent with others in the family, school, community and society, and the needs emerging from each of these contexts. Units III and IV, i.e., Part – II, focus on childhood and adulthood respectively. The correspondence of the units and the chapters in the textbook with the NCERT syllabus is indicated below.

| PART - I                                                   |                                                                                      |                                                                                      |
|------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Units and Chapters in Textbook                             |                                                                                      | Units and Sections in NCERT Syllabus                                                 |
| Chapter                                                    | Title of the Chapter                                                                 | Units and Sections                                                                   |
| 1.                                                         | Introduction: HEFS: Evolution of the discipline and its relevance to quality of life | Introduction: HEFS: Evolution of the discipline and its relevance to quality of life |
| <b>Unit I Understanding oneself: Adolescence</b>           |                                                                                      |                                                                                      |
| 2.                                                         | Understanding the Self                                                               |                                                                                      |
|                                                            | A. What makes me 'I':                                                                | A. Sense of self understanding who am I?                                             |
|                                                            | B. Development and Characteristics of the Self                                       | B. Characteristics and needs                                                         |
|                                                            | C. Influences on Identity: How do we Develop a Sense of Self?                        | C. Influences on identity                                                            |
| 3.                                                         | Food, Nutrition, Health and Fitness                                                  | D. Food, nutrition, health and fitness                                               |
| 4.                                                         | Management of Resources                                                              | E. Management of resources — time money, energy and space                            |
| 5.                                                         | Fabrics Around Us                                                                    | F. Fabric and apparel                                                                |
| 6.                                                         | Media and Communication Technology                                                   | G. Media and communication technology                                                |
| 7.                                                         | Effective Communication Skills                                                       | H. Communication skills                                                              |
| 8.                                                         | Living and Working in a Global Society                                               | I. Living and working in a global society                                            |
| <b>Unit II Understanding Family, Community and Society</b> |                                                                                      |                                                                                      |
| 9.                                                         | Relationships and interactions with 'significant others' within:                     | A. Relationships and interactions with 'significant others' within:                  |
|                                                            | A. Family                                                                            | - Family                                                                             |

|                           |                                                                               |                                                                                  |
|---------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|                           | B. School: Peers and Educators                                                | - School-peers and educators                                                     |
|                           | C. Community and Society                                                      | - Community                                                                      |
|                           |                                                                               | - Society                                                                        |
| 10.                       | Concerns and Needs in Diverse Contexts: Family, School, Community and Society | B. Concerns and Needs in Diverse Contexts: Family, School, Community and Society |
|                           | A. Nutrition, Health and Hygiene                                              | a. Health, nutrition and hygiene                                                 |
|                           | B. Work, Worker and Workplace                                                 | b. Activity, work and environment                                                |
|                           | C. Resource Availability and Management                                       | c. Resource availability and management                                          |
|                           | D. Learning, Education and Extension                                          | d. Learning, education and extension                                             |
|                           | E. Textile Traditions in India                                                | e. Textile heritage of India                                                     |
| <b>PART - II</b>          |                                                                               |                                                                                  |
| <b>Unit III Childhood</b> |                                                                               |                                                                                  |
| 11.                       | Survival, Growth and Development                                              | - Survival, growth and development                                               |
| 12.                       | Nutrition, Health and Well-Being                                              | - Nutrition, health and well-being                                               |
| 13.                       | Care and Education                                                            | - Care and education                                                             |
| 14.                       | Our Apparel                                                                   | - Clothes and apparel                                                            |
|                           |                                                                               | - Children with special needs                                                    |
|                           |                                                                               | - Socio-cultural influences on children                                          |
| <b>Unit IV Adulthood</b>  |                                                                               |                                                                                  |
| 15.                       | Health and Wellness                                                           | - Health and wellness                                                            |
| 16.                       | Financial Management and Planning                                             | - Financial planning and management                                              |
| 17.                       | Care and Maintenance of Fabrics                                               | - Care and maintenance of fabrics and apparel                                    |
| 18.                       | Perspectives in Communication                                                 | - Perspectives in communication                                                  |
| 19.                       | Individual Responsibilities and Rights                                        | - Individual responsibilities and rights                                         |

Each chapter begins with a brief introduction to the unit followed by learning objectives which serve as a useful guide to the teacher and the student. Most chapters also include instructions for activities. Please ensure that the activities are carried out, as this would encourage active participation of the students, create and sustain interest, and enhance learning. The activities may be modified to adapt to local contexts (e.g., urban, rural, tribal, different social class groups) as well as to gender variations.

The practicals depart from the conventional laboratory experiments and direct the student towards field based experiences. This would enable the learners to engage in first-hand interactions with children, adolescents and adults in real life contexts, including the family, neighbourhood, and community. The practicals are also aimed at developing basic research skills of observation and interview. The

teachers are welcome to modify the practicals in accordance with the resources available in their specific contexts.

Each chapter includes key terms; and definitions are provided only for the more complex terms. Review questions are also provided at the end of each chapter with the purpose of enabling both teachers and students to recapitulate and revise the main ideas presented in the chapter. The key terms and review questions will also help the students to connect with the content on which they are likely to be examined.

The present textbook on Human Ecology and Family Sciences is the first attempt to present at the higher secondary level contemporary and integrated perspectives on the five areas — Food and Nutrition, Human Development and Family Studies, Fabric and Apparel, Resource Management, and Communication and Extension. The aim is to project the field as a professional discipline.

Your feedback to the textbook is of utmost importance for us to improve the content for the next edition of the textbook. A feedback form has been given on the page *xiv* consisting of a set of questions related to different dimensions of the textbook. Please spare some time to respond to these questions after you have used the book. You may encourage the students also to respond through these forms or on a separate sheet. In addition, you are free to provide any other comments or suggestions. We look forward to your response. You may answer on the sheets attached and send the feedback by post at the given address. **The feedback form is also available on the NCERT website [www.ncert.nic](http://www.ncert.nic). The form can be filled and also sent to [dws\\_ncert@yahoo.co.in](mailto:dws_ncert@yahoo.co.in)**

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## FEEDBACK QUESTIONNAIRE (HUMAN ECOLOGY AND FAMILY SCIENCES TEXTBOOK)

Please give your comments on the textbook by filling this feedback questionnaire. You may please send the questionnaire by post, or through email, to Dr. Mona Yadav, *Professor and Head*, Department of Gender Studies, NCERT, Sri Aurobindo Marg, New Delhi-110016. Email: dws\_ncert@yahoo.co.in

We welcome feedback from teachers, students, parents and any other user of the textbook. *You may attach a separate sheet as per your requirement.*

Teacher/Student/Parent/Any other (please specify)

Name \_\_\_\_\_

School address \_\_\_\_\_

1a. Is the cover page and printing of the textbook attractive? Yes/No

1b. If not, please specify

\_\_\_\_\_

1c. Do you find the language simple and easy to understand? Yes/No

1d. Mention the chapters/pages where the language is difficult to understand.

| Chapter No. | Page No. | Lines |
|-------------|----------|-------|
| _____       | _____    | _____ |
| _____       | _____    | _____ |

2a. Do you find the content of the textbook adequate to meet the requirements of the syllabus? Yes/No

2b. Mention the chapters which are lengthy.

\_\_\_\_\_

2c. Mention the chapters which are too sketchy.

\_\_\_\_\_

3a. Does the textbook explain the scope and significance of each domain of HEFS?

Yes/No

3b. If no, please specify.

\_\_\_\_\_

4a. Certain practicals and activities have been suggested in the textbook. Which of them have you undertaken in your class? Mention those which you found useful, engaging and enriching.

\_\_\_\_\_

4b. Mention difficulties, if any, faced while organising/doing these practicals/activities.

\_\_\_\_\_

5a. Do you find the illustrations helpful in understanding the content? Yes/No

5b. Mention the illustrations which are not helpful in understanding the content.

| Chapter No. | Page No. | Figure No. |
|-------------|----------|------------|
| _____       | _____    | _____      |
| _____       | _____    | _____      |

6. Mention the printing errors, if any.

| Chapter No. | Page No. | Line  |
|-------------|----------|-------|
| _____       | _____    | _____ |
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7. Any specific comments/suggestions for overall improvement of the textbook.

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