

SARDAR PATEL UNIVERSITY
Programme: B.Sc (Home Science)
Semester: VI
(Family Resource Management)
Syllabus with effect from: November/December-2013

Theory

Objectives:

- To know the procedure for designing work and work place to increase efficiency in household work.
- To familiarize schedule with the effect of work place environment on health and efficiency.
- To make aware about anthropometric dimensions of worker with their activities
- To acquire skill in handling tools and equipments used in ergonomics study.
- To understand the change in human body at work.

Paper Code:UH06CFRM06	Total Credit: 3
Title Of Paper: Ergonomics	

Unit	Description in detail	Weighting (%)
I	Work in Home: Work Component The worker. The work. The work place. The work triangle.	15%
II	The Worker: Affective component (Interest, attitude, motivation, satisfaction, help) Liked and dislike tasks. Reasons for task preferred. Cognitive component Knowledge Thinking <ul style="list-style-type: none"> ➤ Planning. ➤ Problem Solving. ➤ Making judgements. Paying attention – Factors important in paying attention. Skill <ul style="list-style-type: none"> ➤ Acquisition of skill. ➤ Skill in controlling processes. Temporal component Control of time <ul style="list-style-type: none"> ➤ Organizing techniques. ➤ Constraints on timing. ➤ Flexible & flexible events. ➤ Nature of household work. ➤ Home maker preferences. Timing <ul style="list-style-type: none"> ➤ Interpretation of time use. Physical component – Anthropometry & Postures	40%
III	Special requirements for the study of ergonomics. Elbow room, Knee space, clearance space of work.	15%



	Work heights. Circulation space in rooms & corridors. Physiological cost of work-Methods of measuring energy expenditure.	
IV	The Work Place Work environment Work space, indoor outdoor climate, lighting, noise, humidity,heat, cold, vibration. Work Station design Design for standing worker. Design for seated worker.	30%

Basic Text & Reference Books

- Grandien (1973) ‘Ergonomics of the Home” Taylor & frances.
- Barnes.R.N ‘Motion and time study, design and measurement of work, john willy.
- Hudso W.R(1962).Work place dimensions and physiological cost to the worker. The journal of industrial engineering.

