M .A H.sc --403 Application of ergonomics(core compulsory)

Objectives:

- To provide a general introduction to ergonomics.
- To provide knowledge about ergonomics approach to design requirement at all levels.
- To provide knowledge about consideration to design work place and furniture.

<u>Unit 1:</u>

- 1. Ergonomics, its definition origin and historical perspective.
- 2. Scope of ergonomics, need and importance.
- 3. Components of ergonomics.

Unit 2:

- 1. Workers consideration in work space design --- anthropometric, work habit and work posture.
- 2. Work surface design consideration.
- 3. Ergonomics criteria for designing products.

Unit 3:

- 1. Envioremental factors --- tempereture, humidity, light, noise, sound and thermal Enviorement.
- 2. Atmospheric pollution.
- 3. Factors responsible for exchange of heat between body and surrounding enviorement.

Unit 4:

- 1. To recommend application of ergonomics furniture.
- 2. Techniques of ergonomics research & furniture.
- 3. Design of furniture for physically challenged and elderly person.

References:

- Johnson B .J (1970) equipment for morden lining –Macmillan co.newyork.
- Grandjean . E. 1973 ergonomics of home London -taylor and france.
- Mccormick, e. j 1976 human factors in engineering and design —new delhi mcgrraw hill publishing ltd.
- Ergonomics –surmya joshi dept of home management -1998.
- Essential of ergonomics by prof-veena gandotra, Krishna oberoi and promila Sharma.
- Obene david (1980) :ergonomics and work ,john wiley and sons ,new York London.