



# **RESEARCH METHODS FOR ERGONOMICS**

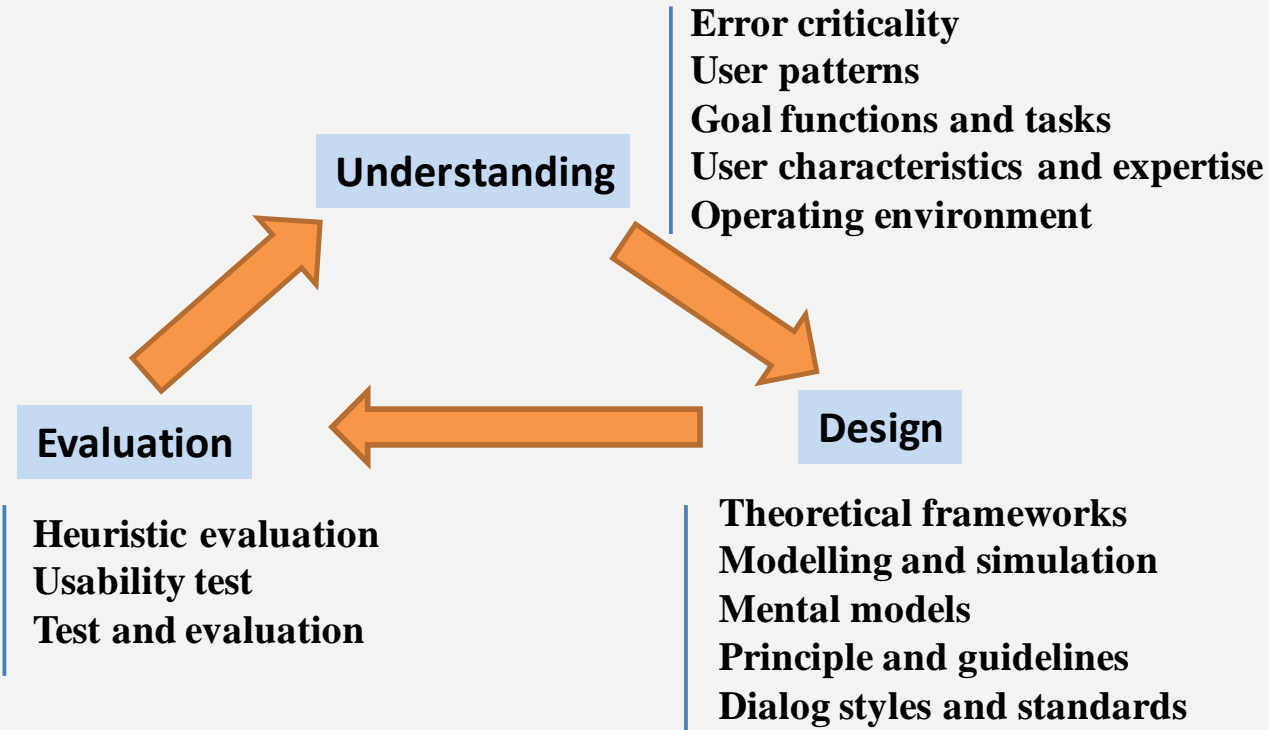
# SUMMARY OF PREVIOUS LECTURE

- Tools used for ergonomic assessment

# RESEARCH METHODOLOGIES:

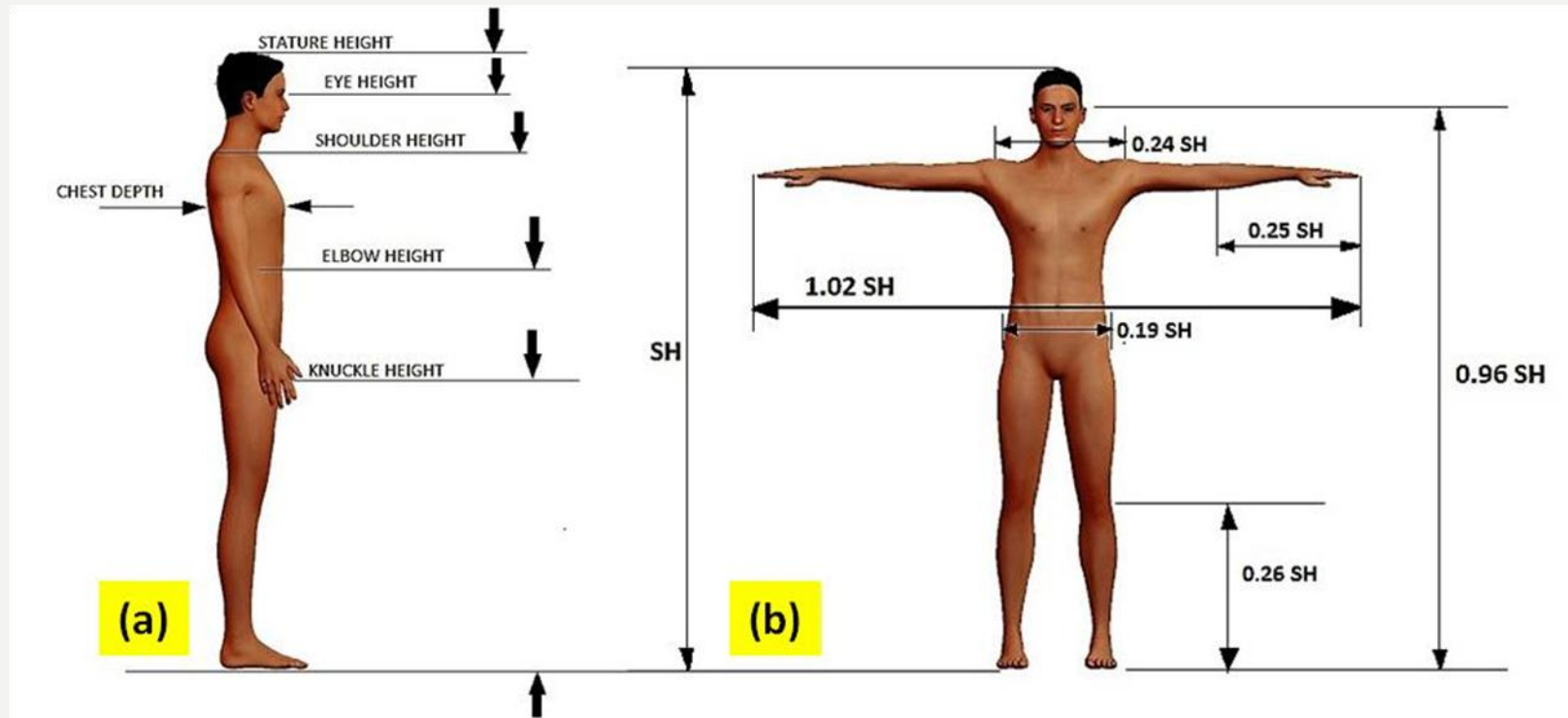
- Researchers use many descriptive methods, tools, techniques for ergonomic assessment. summary of these techniques are as follows:
- **Survey and Questionnaire:**
- Most of researchers measures a number of variables and evaluate about the relation of each other. In most of the cases, Behaviour of the workers are recorded while performing the tasks under various circumstances. There are situations where conclusion is made on the basis of surveys and relevant questionnaire.


- **Experimental research methods:**
- Systematic analysis of risk factors is one of the experimental research methods. Methods based on the ergonomics are: HAYOP, DST, MORT, RNUR etc.
- **Ergonomic Product Design Evaluation Research**
- While design a product/system, sequence of the operation may be (i) Understanding the need by designer by involving user input (Involvement of user is essential throughout the design life cycle for meeting the requirement), (ii) setting and implementation of guidelines in design, (iii) Iterative usability testing beginning early in the design process. So, Product design evaluation can be simplified as : understand the user, design and then evaluation



- As the technological advancement is taking place, newer products are appearing. These products are user friendly and equipped with sophisticated designs.
- keyboarding systems, including new keyboard designs
- keyboard platform systems.
- mouse designs and other input devices.
- furniture workstation designs.
- chair design issues.
- hand-operated devices.
- computer monitor design and anti-glare filters

# ANTHROPOMETRIC ANALYSIS



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# **LECTURE CLOSING**





# THANK YOU ...



PLEASE READ ANTHROPOMETRY FROM  
RECOMMENDED REFERENCE BOOKS FOR A  
BETTER UNDERSTANDING OF NEXT  
LECTURE