Ergonomic Assessment of Tehran railway station: An approach on Traveling Quality of Life

Hassan Sadeghi Naeini
Iran Univ. of Science and Technology (IUST)
Associate Prof.- Industrial Design Dept.
Ergonomics-Scope

- Ergonomics as multidisciplinary science concern with both sides of wellbeing and productivity for both employees and employers/operators/end users.
- Fitting the task and conditions to human
- Design/redesign and modification of Environments, tasks, equipment and fit them to human limitations and abilities.
Ergonomics sub-branches

- Micro Ergonomics
- Macro Ergonomics
- Environmental Ergonomics
- Cognitive Ergonomics
Ergonomics sub-branches

Micro Ergonomics
- Anthropometry, Workstation design, Body postures, Work physiology
- Work organization, Techno-Social aspects
- Acoustic, Lighting, Temp., Radiation...

Macro Ergonomics
- Perception, Feeling
- Signs and Alarms

Environmental Ergonomics
- Social-cultural concepts
- Religion and habits

Cognitive Ergonomics

Cultural Ergonomics
Sustainability QoL
Research Methodology & Method

In this descriptive study, The Tehran railway station was studied.

In this field study, the data was gathered by
a) Ergonomic assessment of railway station,
b) Passengers’ Interviews (87 volunteers)

Displays Assessment
People circulation in station
Noise & Lighting Assessment
Furniture Assessment

Interviews-passengers’ opinions
About safety, security, pleasure, satisfaction
Results
Lighting (Lx)
Thank you
for your kind attention