

WORKSHOP PROJECT SHEET

Anno Accademico / Academic Year 2022/2023

Titolo Workshop / Title and subtitle:

Design for disaster and climate change; a challenge for designers, Interior Designers and Visual Designers.

A cura di / By:

Proposed by: Ely Rozenberg

Entrepreneur: Noemi Bitterman

Indirizzato a / Intended audience:

To all students.

Particularly recommended to Design students, Graphic design, Visual & Innovation Design, Multimedia Arts and Design – Realtà virtuale, Multimedia Arts and Design – Digital humanities

Partecipanti / Participants

MIN 12 – MAX 22

Requisiti richiesti / Requirements

- English Language
- Basic requirements in drawing and software knowledge. Basic drawing equipment and personal laptop.

Durata e Crediti / Duration and Credits:

30 hours – 2 FC

Periodo di svolgimento / Possible dates:

19/23 June 2023

Giorni, orari ed aule di svolgimento / Days, times and classrooms

Lunedì 9.00-16.00 (1 ora pausa pranzo)

Martedì 9.00-16.00 (1 ora pausa pranzo)

Mercoledì 9.00-16.00 (1 ora pausa pranzo)

Giovedì 9.00-16.00 (1 ora pausa pranzo)

Venerdì 9.00-16.00 (1 ora pausa pranzo)

SEDE RUFA VIA LIBETTA 7 – G05

Breve descrizione / Short description:

Nature disasters such as heat waves and cold waves, floods, earthquakes, avalanches, tsunamis, hurricanes, tornadoes, epidemics, and droughts, are expanding due to climate change, global warming, population explosion and overcrowding of cities. The basic assumption is that people will be harmed, remain homeless, infrastructure will be damaged or paralyzed, roads blocked and more. It is therefore that we must be prepared for disaster situations to support citizens and enhance their ability to recover and return to normal everyday life as soon as possible (community resilience).

The aim of the studio is to increase student's awareness and knowledge of disaster situations, explore special needs of diverse populations (elderly, children, special needs, gender), and design solutions for improving disaster problems (detection, rescue, treatment, support, protection, survival, rehabilitation, and infrastructure).

Short Biography

Holding PhD in Medical Sciences (Physiology), and M.Sc in Industrial Design, including Post Doctoral fellowship at the University of Pennsylvania, USA.

Former positions: Founder and Chair of Masters of Industrial Design (MID) with focus on Medical and Social Design ,Technion, Tel Aviv. Chair of Industrial Design at the Faculty of Architecture & Town Planning, Haifa (2003 - 30.9.2016), and Director of Research Unit of the Israeli Naval Hyperbaric Institute (INHI) (1982- 1999).

Visiting Prof. at University of Venice IUAV, Italy (2016 – 2018).

Mentor of Biodesign program Israel- Stanford, consultant for medical technology.

Research interests:

- *Design and Human Factors in Healthcare*

Design aspects of medical technology, transfer of technology, innovation & smart technologies. Home healthcare devices and Electronic Medical Record (EMR), Hospitals design: Operating room of the future, portable hospitals, Health smart home

- *Personalized Design, Design for All*

Adapting (personalization) the Internet, interactive healthcare services (mHealth) and innovative technologies for elderly, disabled and both genders.

- *Human Factors and Design in Extreme Environments*

Design for disaster and rescue situations, portable hospitals. Performance and design on exposure to hyperbaric pressures (diving), hyperbaric chambers design, designing for stressful environments (operating room of the future).

- *Evidence Based Design (EBD) Methodologies*

Developing physiological objective (quantitative) methods for design and assessment of equipment and environments (e. g. Human Computer Interface, mobility aids, electronic healthcare record, gardens), simulation methods.

Teaching experience (graduate students)

- *Faculty of Architecture (Technion):* Physiological Aspects of Person-Environment Relations; Relationship between Nanotechnology and Industrial Design; Industrial Design and Human Factors in Healthcare; Design for Disaster and Rescue Zone; Design, Technology and Innovation; Selected topics in Industrial design.
- *Faculty of Medicine (Technion):* The Physiology of Diving & High Pressures.
- *Università IUAV di Venezia, Italy (2016- 2018):* Design for Emergencies (Studio).
- *Università degli Studi di Perugia, Italy (2018):* Design for Emergencies (Studio).