



DR. BHANUBEN NANAVATI
COLLEGE OF ARCHITECTURE
FOR WOMEN

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GreenContributor™ Empowering Green Character Through Green Behaviour

Date and time: 4th and 5th March 2016

Day 1 - 9.00 am - 5.00 pm

Day 2 - 9.00 am - 7.00 pm

Venue: Dr. B. N. College of Architecture, Karvenagar, Pune



A UNAI Initiative at BNCA

The United Nations Academic Impact (UNAI) is a global initiative that aligns institutions of higher education with the United Nations in furthering the realization of the purposes and mandate of the Organization through activities and research in a shared culture of intellectual social responsibility.

Dr. B. N. College of Architecture is a member of UNAI and a Hub addressing poverty through education





DEMOLA is an award-winning Finnish innovation ecosystem for students, companies and universities. It is a collaborative open innovation platform where talented university students cocreate new solutions to real-life problems with companies and other project partners.





It provides an inspiring atmosphere of creative co-creation and new learning opportunities for students and professionals of different universities and organisations.

Budapest, and responsible for the creative process & case design at Budapest DEMOLA node, outlining project ideas, making technology match & facilitating design & inventive process.



György Surek

BNCA Instructors:



Prof Asmita Divekar



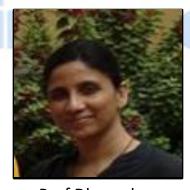
Dr. Anurag Kashyap



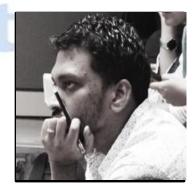
Prof Vaishali Anagal



Prof Swapnil Gawande



Prof Dhanashree Sardeshpande



Prof Deva Prasad



Prof Poorva Kulkarni



Prof Mahesh Bangad



Prof Dharati Sote

Aim: The aim of this workshop was to design a small scalable shelter covering as many human needs as possible, which could be made of any materials or a "sandwich" made from several materials including recycled products.



Objective: Students came up with designs where the idea was to ensure that the shelter could be put up on the go, easily transportable, readily assembled, and could be used in different types of emergencies, always keeping in mind for whom they were designing this product; thereby leading the students to understand technology and materials that could be used for constructing structures in case of disaster management.

This workshop was done with the user-perspective & feasibility in mind. During the workshop the students experienced an inventive thinking process having a modular and global approach.

Task: The workshop had task to work as a team starting with students from the same discipline moving towards working in multidisciplinary team including the manufacturing company.





Benefit: While as part of the UNAI initiative this is ultimately meant to help people in times of disaster, students get to initiate work on something which can become real, where the plans and mockups made by students will be introduced to the manufacturers.

DAY 1



Day 1 started with introduction to the brief of Shelter design workshop.



Hand out information was given to the students with respect to the technologies that could be used.



Different groups were formed and narrative of disaster scenario and challenges were given in groups.





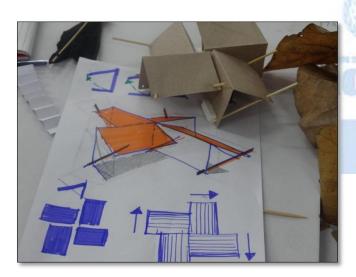




Goal in terms of design was to think about a unit shelter which could mitigate the above mentioned scenario. Ex. – Flood, Tsunami, Earthquake, Heavy rains and heavy snow and Landslide.



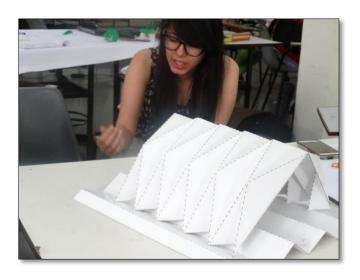














The students were also thinking about other objects used for disaster mitigation such as bed which could fold into a shelter during a disaster scenario.







The students presented their initial design concepts to the partner at Mega Plast, Budapest via Skype session

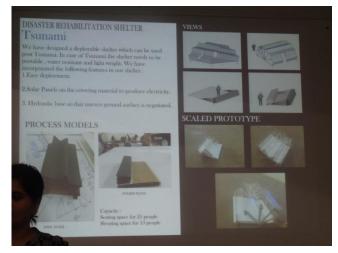




SOCIAL CONTRIBUTION AT GLOBAL LEVEL

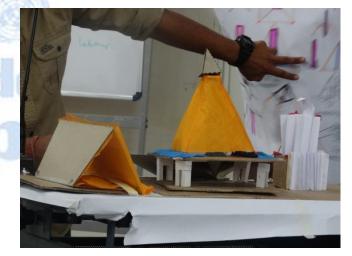
DAY 2



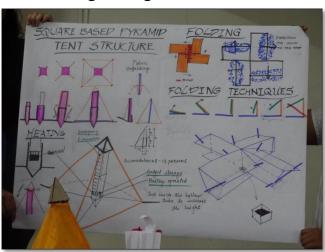


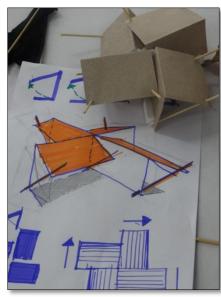
The students gave thought for different environment and use-cases for previous day shelter. They also presented their shelter with respect to influence of external parameters on their design



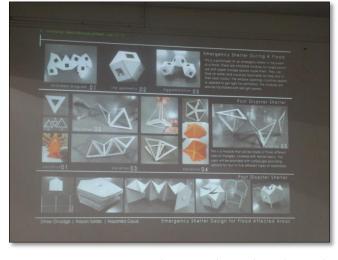


After this students worked on their final design and gave results.









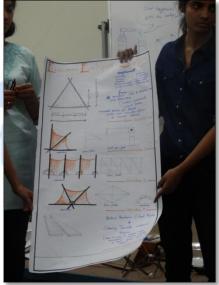
Students presented their design and final results in front of faculty members and other groups.

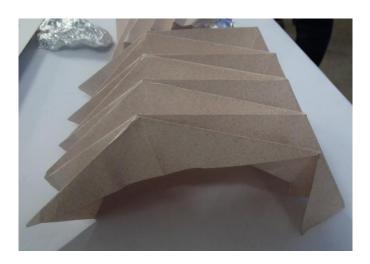






Students also developed 3D models on software to illustrate their designs.













Students presented their work in form of sketches on drawing sheets, models to demonstrate the structure along with materials used and the technology adopted for same





During presentation, participant groups also have discussion and query for their design among rest group members.









MAHARSHI KARVE STREE SHIRSHAN SAMSTHA'S DR. BHANUBEN NANAVATI COLLEGE OF ARCHITECTURE FOR WOMEN





Certificate of Participation

This document certifies that

Mr. / Miss. ______

Participated in the workshop on

"EMERGENCY SHELTER DESIGN WORKSHOP"

A United Nations Academic Impact initiative at Dr. <u>Bhanuben Nanavati</u> College of Architecture, Pune, India

This hands-on workshop is part of a Global Collaborative initiative between DEMOLA Budapest,

Dr. Bhanuben Nanavati College of Architecture for Women's – Pune India & Green Contributor Inc. Canada partnering together to generate innovative designs to derive prototypes for emergency shelters with an inventive thinking process working in interdisciplinary teams

Presented on 4th & 5th of March 2016

Gvorgy Surek DEMOLA Budapest

Dr. Anurag Kashyap Principal BNCA – Pune India Asmita Divekar UNAI Hub Program director

George Koshv Green Contributor Inc. Canada