

INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE, UMRAKH

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A Report on Four Days Design Engineering Workshop

46th FDP Design Engineering Basic level-1

16th January-2018 to 19 January-2018

References: Guidelines for the Design Engineering Workshop (Available at de.gtu.ac.in)

Attended By:

Mr. Ronak Khurana (Assistant Professor, Civil Department)

Mr. Vishal Shah (Assistant Professor, Chemical Department)

Mr. Sandip Tandel (Assistant Professor, Computer Department)

Mr. Janak Patel (Assistant Professor, Electrical Department)

Mr. Zaid Shaikhji (Assistant Professor, Electronics & Comm. Department)

Mr. Rinkesh Patel (Assistant Professor, Mechanical Department)

Mr. Arun Prajapati (Assistant Professor, Civil Department)

Schedule for Design Engineering Workshop

DAYS	ACTIVITIES
16 th January-2018	AEIOU FRAMEWORK & EXPERT LECTURE ON
	DESIGN THINKING
17 th January-2018	FIELD VISIT & DEVELOP CANVAS SHEET
18 th January-2018	PRODUCT DEVELOPMENT CANVAS
19 th January-2018	EXPERT LECTURE & PROTOTYPE MODEL



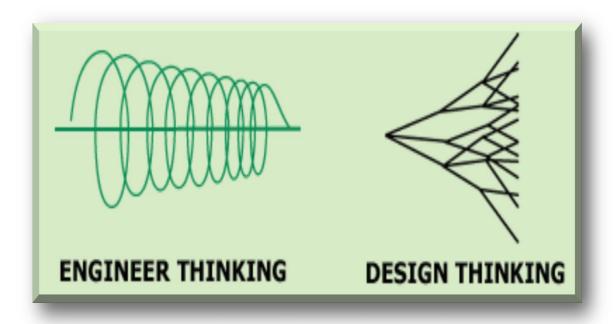
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Day-1

The workshop started with an inspiring speech by Prof Karmjitsinh Bihola, GTU for considering the subject as a chance to develop design thinking as an integral part of engineering studies.

Prof. Rohit Swarup started a first session on Design Thinking Methodology. He delivered the multimedia presentation emphasizing learning perspective of Design Thinking at initial stage of Design Engineering with GTU.



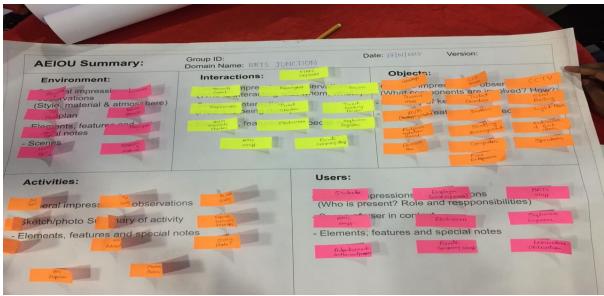
After this presentation the small exercise and group discussion session was conducted with the group of faculties.

In the post lunch sessions AEIOU Framework to make more insightful empathy by correlating AEIOU Observation sheets with Empathy mapping Canvas. Also he conveyed the importance of field survey for understanding the real problem and feeling of users.



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AEIOU FRAMEWORK OF BRTS VISAT JUNCTION









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SITARAMBHAI NARANJI PATEL

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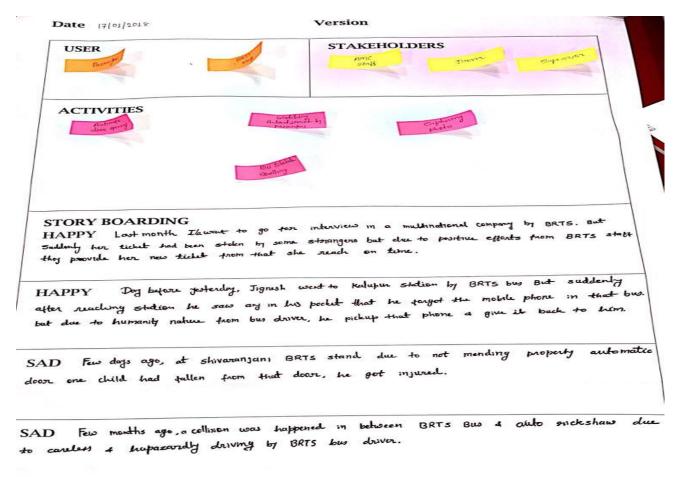
Day-2

Day-2 started with an intriguing review session. All the mentors discussed the first day activities with their assigned group of Faculties and suggested the changes required with viability of the topic.

Next all the groups of Faculties went for the field survey in nearby region area looking at their title of the design they selected the user segment. While doing the survey they kept their AEIOU framework in mind and captured photos / videos / interaction clippings etc. in a very efficient and beautiful manner. Once the field survey was over they again started the next activity based on the survey i.e. canvases preparation.

Post lunch, a very important session started and Faculties have explored lot many things which included Mind mapping, Empathy mapping & Ideation Canvas.

Last session of day was to define the learning needs and prioritizing them.

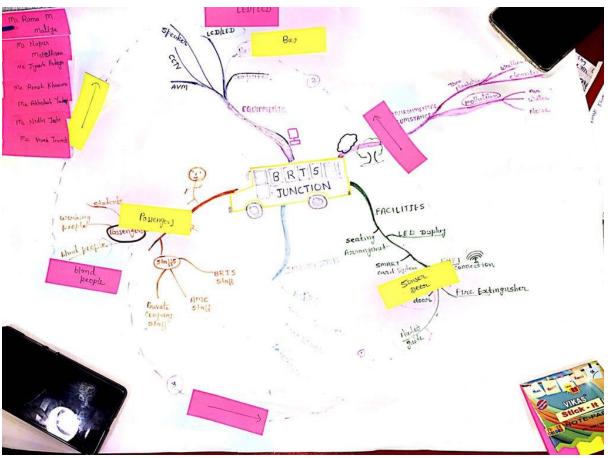


Empathy Canvas Development



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Mind Mapping Canvas Development

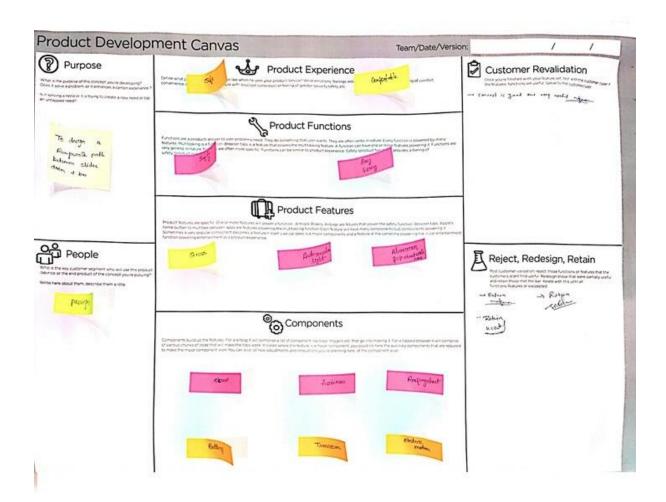


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Day-3

Day-3 started with review of Ideation canvas by Prof Karmjitsinh Bihola, GTU as well as development of Product Development sheets to know your complete idea for macro & micro observation.



Product Development Canvas



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Day-4

Day-4 started with Prof Karmjitsinh Bihola, delivered a brief talk covering the LNM theory and different ways to find out their learning needs in terms of theories, experiments, standards, components, hardware and software requirement of different tools and modules. After that the rough prototype design was carried out next. Faculties tried to convert their idea in the prototype with varities of ways. Building the rough sketch/ model given them chance to work with team spirit and provided broad idea about how their design should look like.









Prototype Model



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Workshop Conveners:

Mr. Karmjitsinh Bihola (Gujarat Technological University)

Mr. Rohit Swarup (Expert Guest)



