

Design Activity 1: Changing hats + Product study

Submission guidelines

- Submit a combined report in a *.PDF format (max 3 pages) as per instructions.
 - The submission is to be done individually.
 - You may convert your handwritten document / *.doc/ */pptx or similar to a *.PDF; make sure to incorporate image (in Part 1) and actual photograph (in Part 2 A+B)
 - It is allowed to change the product (w.r.t. what was discussed in the class)
- **Part 1: Changing hats:** choose any ONE product to bring out the best of different perspectives. You are encouraged to think of a product different from the classroom discussions
Mention the name of the product, include an image and articulate perspectives of ALL the stakeholders
 - Industrialist
 - Marketing expert
 - Technology expert / maker
 - Activist
 - Consumer/ user
 - **Part 2A: Functional design** (Choose a product with minimum 2 and maximum 3 materials; different from part 1; to suit this activity)
Use the following template for product analysis as discussed in the session.
Include the photograph of the chosen product in the first column.

	Name	
	Purpose	
	How does it work?	
	Structure and main parts	
	Materials and manufacturing process (your best guess)	
	Critical detail (if any)	
	Usability requirement	

- **Part 2B: Material properties:** Answer the following questions for the product (same as part 2A). You are advised to use pictures/ figures as needed.

1. Why are the current materials suitable for each part and how are they contributing towards the purpose?
 2. What other materials are currently being used for manufacturing the same product?
 3. Suggest an unconventional material for the said product. Analyse how the material properties will have to be modified to suit the purpose.
 4. Which of the product details will not work with this unconventional material?
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Add notes on the challenges and learnings from the activity as a general practice. This is helpful while reviewing the learnings of the course. (Optional)