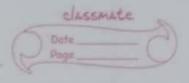
Assignment 2- Jugood Designs



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Problem statement: "The Jugaad": Humans are very creative and often use it to get work done with available set up and resources. Students are expected to find Jugael (things used creatively but not meant for that) things and submit a minimum of 3 to 5 photographs of jugad in their surroundings or home. Propance a report mentioning the Jugaed and source of photos. Discuss the outcome during lab session.

what is Jugard: An approach to problem solving that is flexible and uses limited resources in an innovative way.

It is an Indian phrase used to describe the kind of ingenuity that enables Indians to mange the large and small changes of every day life. I

the essence is to improvise, and to quickly and cheaply comble a situation.

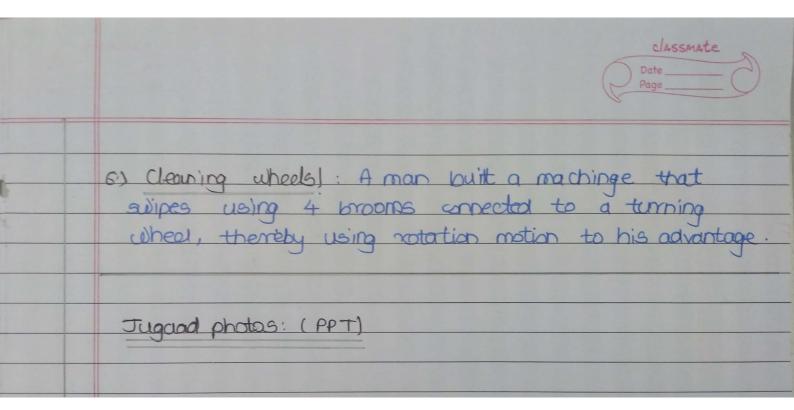
Jugaad examples:

1.) Indian scientists in 1969:

The parts of rocket for India's first ever rocket launch were transported using bicycles and bulbok carts, due to shortage of funds.

the expensive machinery to transport was avoided and instead using a simple and indepenious way, our scientists saved a lot of money for other important things.

- 2.) Table drawer: The metallic handle of my study table had broke so I used a simple string of micron and put it in the holes of the broken handle. So without getting a new metallic handle, I can use a string to open the drawer.
- 3.) Plants in pot: Instead of getting expensive plant pots, one can use buckets or containons that one use and throw to plant small house plants. This brings out 'The best of waste'.
- 4,) cooler with exhaust fan: An exhaust fan throws out hot air. An individual thought why not use it to throw in cold air instead?
- 5.) Ropes to the rescue: Due to floods in Telangana, cans were getting wiped out. A person used ropes to tie his can and saved his property without any help for from the authorities.



Jugaad at its best



Science and technology revolutionize our lives, but memory, tradition and myth frame our response.

ARTHUR SCHLESINGER



Benifits of Jugaad

The non-conventional way to get things done!



NEW AVENUES FOR PROGRESS

Sometimes biggest of big problems can be solved by a simple thought in mind.



TIME SAVING

A flexible approach to solve a problem is benefitting for time as well as resources.



INNOVATION

Thinking out of the box brings out innovative ideas that no one could have even thought of!

A cycle and a church were used for India's 1st rocket launch

The rocket for India's first-ever rocket launch was carried in parts on a bicycle to the launch site, a church in Thiruvananthapuram in 1963. The launch sent NASA-made Nike-Apache rocket to space and led to the foundation of the Indian Space Research Organisation (ISRO) by Vikram Sarabhai on August 15, 1969. The church was later renamed Vikram Sarabhai Space Centre.



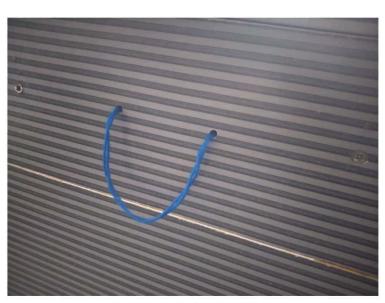
Due to budget restrictions, ISRO didn't have the money to use trucks for carrying rocket equipment instead they used simple bicycles and bullock carts and made the mission a success.

Source - "The winges of fire" (autobiography of Dr. APJ Abdul Kalam





APPLE Satellite being transported in bullock cart (1981)



Source - Individual Idea Picture source - Home

Table Drawer

The metallic handle of my table drawer had broke.

I had a string of micron, I put it inside the holes of the metallic drawer, and instead of the metallic handle, I can use a string to open or close the drawer.



Plants in a pot!

Instead of purchasing expensive flower pots for garden plants, one can simply use buckets or any kind of container available at home that is of no use or was a use and throw container.

Source - https://in.pinterest.com/nirmalparekh200/jugad-from-home-waste/



Cooler with an exhaust fan!

Normally we think of an exhaust fan as a fan that throws out hot air. But a creative individual thought- Why not use it to throw cool air!

Source - https://twitter.com/bhandaraic/status/1307554988944584705?
ref_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed%7Ctwterm%5E1307554988944584705%7Ctwgr%5E%7Ct
wcon%5Es1_&ref_url=https%3A%2F%2Fwww.timesnownews.com%2Fthe-buzz%2Farticle%2Fdesi-jugaadcooler-made-out-of-an-exhaust-fan-goes-viral-watch%2F810537



ref_src=twsrc%5Etfw%7Ctvcamp%5Etweetembed%7Ctwterm%5E1435246719948791810%7Ctwgr%5E%7Ctwcon %5Es1_&ref_url=https%3A%2F%2Fwww.siasat.com%2Fman-ties-car-with-ropes-in-flood-hit-telangana-town-2188985%2F

Ropes to the rescue!

Due to floods in Telangana, everything was getting swiped up. A person wanted to save his car, so they used a rope in this dire situation to hang around his car and save his property without any help form the authorities!



Cleaning wheels!

A man sitting on a machine that cleans the floor as it moves forward. A solution that reduces manual labour and is really innovative.

Source - https://twitter.com/anandmahindra/status/1010033280752680960?lang=en

What's Next in Jugaad?

	Increased task automation.
C	Extra focus on high-value tasks.
_	Continuous investment.
	A better conscious focus on money saving
2	Greater geographic distribution and representation of the workforce.



- Anand Mahindra



Conclusion: Various examples of "Jugaad" were studied and the application of Jugaard into technical aspect as an engineer was thought upon. The labs had a healthy discussion about various examples and applications on Jugaad.