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Subject - Design Thinking Laboratory
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Trimester - II

Practical No. 1

Q1) In your opinion what is Design?

Ans→ Design is to pull together something new or to arrange existing things in a new way to satisfy a recognized need of society. For me Design is to open my mind and apply creative and innovative ideas to a particuler field and to enhance the looks, astehics and beauty of that field.

Q2) How can we say that the design is a multidisciplinary task?

Ans→ ① Multidisciplinary design is when different design disciplines are used together. Or when design reaches beyond its bordes to other fields in order to enhance the way it solves a problem, or think laterally about how it can.

② Technology and data are two examples of practices that provide many new ways of approaching old problems.

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Q3) If you consider a product or a system, what are the parameters on which you can say that it is a good design?

Ans→ The parameters of a good design -

① Achievement of performance requirements -

ⓐ The service conditions under which the product must operate.

ⓑ Filling the environmental requirements.

② Life-cycle issues -

The total life cycle of a part starts with the conception of a need and ends with the retirement and disposal of the product.

③ Regulatory and social issues:

① The standards produced by such societies as ASTM and ASME represent voluntary agreement among many elements of industry.

Q4) what is the role of innovation and research in design?

Ans→ Design tools and processes can generate innovative new ideas, improve business performance and help growth. And by doing a research, which focuses on what your customers need and want and implementing with innovative ideas can play a important role in design.

Q5) what are the required quantities of a Design Engineer?

Ans→ The quantities of a Design Engineer are-

① Innovative approach to problem solving
② Intuition and empathy
③ Subject specific technical knowledge and expertise.
④ commercial awareness of your specialist area of engineering.
⑤ IT and CAD knowledge.
⑥ The ability to work in a team.