



Best Practices

A.Y:2021-22

Details of two best practices successfully implemented by the institution.

Best Practice 1:

1. Title of the Practice: Development of innovative products

2. The Goal: To offer Community Service by developing innovative products

3. The context:

- Centre for collaboratory social innovation (CSI) design process includes modules like problem identification, specification development, conceptual design, detailed design, product delivery and maintenance.
- Students develop the products at different phases and formative assessment will be done after each phase of the design process and grades will be awarded as per the defined rubrics. After assessment, evaluation will be done.

4. The practice:

- Many Students presented their ideas during ‘CSI- Poster Presentation’ event. Students have actively involved in the interdisciplinary projects.
- They have identified the community partners as an end user of their products and visited nearby villages, farmers, hospitals, traffic police station, municipality, transportation departments and NGOs etc.
- Several Product Expos were organized and Students demonstrated their products and explained about the community partners. Dr D Laxmiah, Head of CSI visited the Expo and appreciated the students.
- Several MoUs were established and paper publications published in reputed journals and conferences

5. Evidence of success:

- Many innovative products are developed in different phases. Some of the products are Foot step power generation, Smart helmet, soil testing kit, smart urinal system etc.
- Centre for Design established to inculcate design thinking into minds of engineering students to enhance their creative and innovative skills. Various events like Product expo, workshops were organized and developed products like adjustable water tank cleaner, smart immersion water heater etc.

6. Problems Encountered:

- Not all students will get different innovative ideas.
- Various activities to be implemented requires pre-planning and also time consuming. Problem identification, specification development is a challenging task for every student.



Smart water tank cleaner (robot)
developed by Centre for Design team



Smart Rolling Bridge Prototype
developed by Centre for Design team



Soil Testing Kit (Artificial Rain System)



Smart Urinal system developed



Sri.R.Venkat Rao, Chairman Sri Indu Group of Institutions, giving suggestions to the students about the product developed under Centre for Design