

Usage of PBL Equipment in Students' research work

July to November 2022



Knowledge management and data analytics for manufacturing process

- About research work: Mr. Kiran Ghadge is pursuing research in knowledge management for manufacturing processes. His work involves asset tracking by indoor positioning, ergonomic assessment in manual processes and a framework that represents a unit manufacturing process.
- Use of PBL equipment: Apple iMac





Analysis of experimental samples for Additive Manufacturing

- About research work: Mr Ansuman Sahu is a PhD Scholar at CPDM pursuing research in Additive Manufacturing.
- Use of PBL equipment: Prusa i3 MK3S 3D Printer





Complex data analysis and processing

- About research work: Mr Sanjay Singh is a PhD student at Ideaslub, CPDM, IISc, pursuing research in design theory and creativity. His work involves use of statistical tools for analysis.
- Use of PBL equipment: HP Zbook





Testing experimental samples for bio-medical device design

- About research work: Deval Karia's research focused on the design of medical devices for resource-constrained settings, and the use of open-source communities as a channel for their accelerated development and commercialization.
- Use of PBL equipment: Prusa i3 MK3S 3D Printer

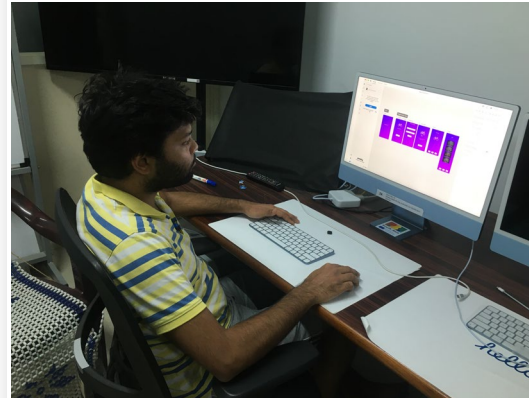




Development of PBL IISc and PBL South Asia websites

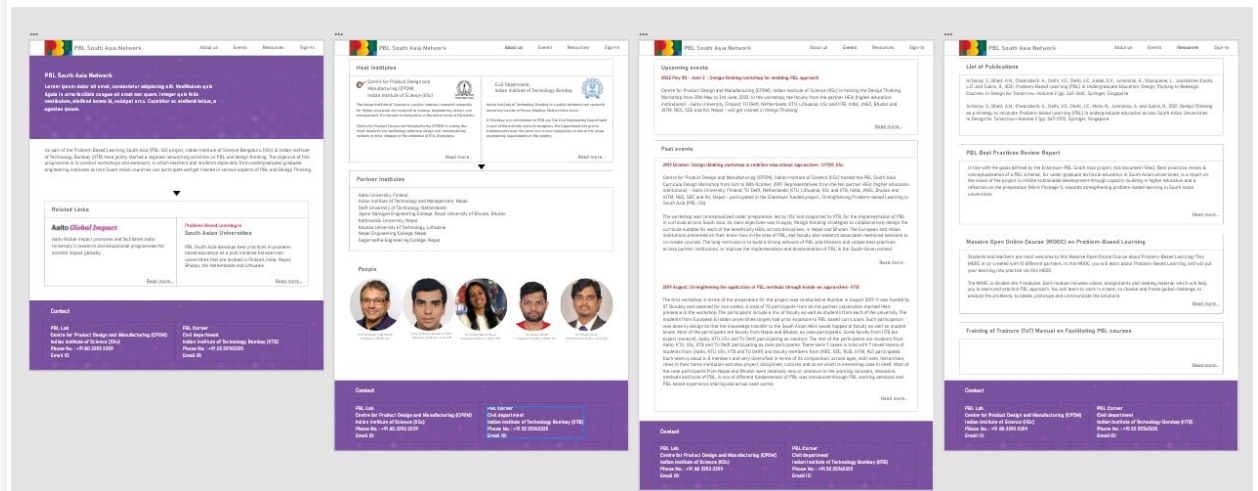
• About research work: Mr Apoorv Bhatt is pursuing research in Design Pedagogy. He involves in the ERASMUS+ project, 'Strengthening Problem-based Learning in South Asian universities'.

• Use of PBL equipment: Apple iMac along with Adobe suits



PBL Lab @ Ideaslab, CPDM, IISc

The PBL lab is a major contribution towards the goal of regional capacity building and aims to impart training and mentorship for PBL in South Asia.





Developing and analyzing multiple-state mechanical devices using additive manufacturing

- About research work: Anubhab Majumder is currently pursuing Ph. D. IDEaS Lab, IISc, India. His research interests include conceptual design synthesis, multiple-state mechanical devices, creativity, kinematics and robotics.
- Use of PBL equipment: Prusa i3 MK3S 3D Printer

