

University of Delhi, Design Innovation Center (DUDIC)

Jamia Milia Islamia, Delhi

Islamic University of Science & Technology, Srinagar

National Institute of Fashion Technology, Delhi

Projects

VaccSure

VaccSure is a low cost vaccination packaging solution for use in rural setup which ensures the storage temperature range of the vaccines. Heart of the VaccSure system is the device which senses internal temperature of the packaging and sends this data to the central server for monitoring.

DIY Clocks

The idea behind the project came out keeping in mind the current DIY kits available in market. The designed kit teaches the kid to control hardware using programming and simultaneously making utility of the kit.

My home office

A customizable modular furniture solution for professionals needing small office space at their residence. The product is flat pack, easy to assemble and customizable with multiple office accessories.

Gloop

Gloop is a kid friendly furniture designed for the kids unable to support their body postures or hyperactivity. The chair and table help instructors to conduct early intervention therapy in case of ASD and the furniture is also designed to be aesthetically coherence with in-home environment.

Food Passport

This passport is your gateway to the kaleidoscopic culture and history, manifesting itself through food, of Dilli - one amongst spectacular seats of civilizations in the history of humanity. With the turn of every leaflet you will be transcended to the crafty and piquant food traditions of old Delhi.

SmartX

SmartX is an IoT solution that can convert a regular switch board into a smart board that can be controlled over the network using a web interface as well as using the physical buttons in the conventional manner.

Awaas

Awaas is a makeshift shelter which can be assembled and disassembled with minimum effort, keeping in mind the end user and it's interaction with the product. The two key factors considered while designing the product was ease of usability and sustainability from rough use and extreme weather conditions.

DALI

DALI is a package developed by National Brain Research Center (NBRC) and digital platform is developed by DUDIC. It contains screening tools for school teachers and assessment tools for psychologists in Indian Languages to identify dyslexia.

Nest

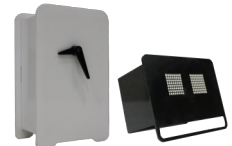
The project proposes a range of furniture which will have an identity and form inspired by the endangered species of Indian birds. This projects intends to spark a dialog and sensitivity towards their protection in the minds of the observers.

Arete

Arete is a digital platform where teachers can share their narratives of educational change. It brings together passionate teachers who are involved with developing fresh educational practices in the pedagogy.

SensOn

'SensOn' detects if a furniture is in use or not. It senses the vibration when somebody uses the furniture. 'SensOn' can be attached to any normal furniture and by doing so we can convert any furniture to a smart furniture.



Takhti

Takhti provides an efficient infrastructural support solution for rural schools in India where generally kids either seat on a broken furniture or on ground because the furniture is either vandalized or not available at all.

Accieo

Accieo is a mobile application designed to be used by differently-able people. It has a comprehensive database of the accessibility factors of the buildings for different kind of differently-ability.

IU-HaK

IU-HaK (Islamic University - Haptics Kit) is a plug and play device that lets users (students or any learner of physics) understand various STEM (Science, Technology, Engineering and Mathematics) concepts by connecting it to an appropriate virtual environment.

Low-cost thermal imager for predictive maintenance

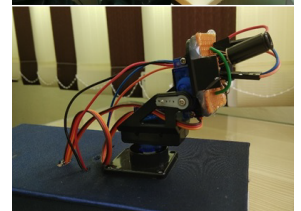
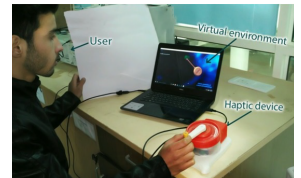
A low cost thermal imager was developed capable of detecting leaks under walls and slabs and overheated parts in machines and electrical equipment.

Dasterkhawan

A machine which cleans Dasterkhawan (Table Cloth used in homes/restaurants/feasts). The machine developed is equipped with such a rolling mechanism which ensures that the table cloth is rolled smoothly upwards and in the process all the waste material is removed by the special cleaning accessories and gets collected in the waste box that can be removed easily.

Assisted healthcare for Alzheimer's Patient based on IoT

A smart pillbox for such patients adapted around the concept of IoT (Internet of Things) was developed. Assistance for Alzheimer's patient is provided by setting up a system around the patient where he is timely notified about taking medicine through a screen on the pillbox. This pillbox not only reminds patients about his medicine for the day but also places an order for the registered medicines from a website after a fixed predefined number of chambers are empty. The pillbox also drops an email to a doctor or a caregiver if the chambers are not emptied on time.



Workshops

Winter Training

Organised in Jan-Feb 2016 @ DIC IUST, Introduced winter trainings on Embedded Systems and Robotics for engineering students of the state.

Hygieia 1.0

Rethinking cleanliness, Workshop for college students.

Organized on 9th April 2016, Attended by 40 Students from different colleges of Delhi.

Innovation Frontiers-I

Organised in April 2016 @ DIC IUST, Featuring lectures on innovation & opportunities, hands-on on rapid prototyping using 3D printing and a Design Thinking Exercise

Hygieia 2.0

Rethinking cleanliness, Workshop for school students.

Organized on 8th September 2016, Attended by around 30 school students and 10 Teachers from different schools of Delhi.

How to Design

Workshop to design products for mathematics education

Organized on 8th September 2016, Attended by more than 30 students and fellows from Masters of Mathematical Education program.

Makers Bootcamp

A day to learn DIY Electronics

Workshop organized from 15 -16 November 2016, Attended by 24 students and 8 teachers from different schools of Delhi.



Innovation Frontiers-II

Organised in July 2017 @ DIC IUST, It was a one day Design Thinking Workshop, featuring interactive design sessions by Dr. M. S. Farooqi, Director, Center for Incubation, Innovation & Entrepreneurship, Ambedkar University, Delhi.

Design Workshop

An introduction to Design

A four Day workshop organized from 24 - 27 October 2017, Attended by 29 students from different colleges of Delhi.

Graphic Design Workshop Series

An introduction to graphic Design and softwares

A regular recurring workshop organized on Saturdays starting from 28 October 2017 for college students to learn the principle of digital and print graphic Design and introduction to software like GIMP, Adobe Photoshop, Adobe Illustrator, Adobe InDesign etc.

3D Modeling

An introduction to 3D modeling and softwares

A regular recurring workshop organized on Saturdays for college students to learn how to design

Innovation Frontiers-III

Organised in July 2018 @ DIC IUST, It was a one-day workshop featured interactive sessions on 3D Printing, AutoCAD, hands-on 3D Printing activities. The number of participants for the workshop were 15.

School Outreach Program with students from Lyceum International School

Organised in September 2018 @ DIC IUST with Lyceum International School, Pulwama. A total number of 24 participants took part in the program which involved hands-on activities on creativity, innovation & design how to design

Summer Internship Award (SIA) @ IUST

To bridge the gap between a successful proof-of-concept to a market ready product, every year DIC offers Internships of 2 - 3 months duration to recent graduates. In 2018, the Summer Internship Award was offered to 2 projects:

1. TutorMe -the Smart e-tutor
2. Development of Cheap & Efficient Hamaams

How to make autonomous Robot using ROS(Robot Operating System) @ JIM

This workshop was organised to train the students to learn How to code and implement Robot in simulator.

Machine Learning and Artificial Intelligence meet @ JIM

This meet up was organised to discuss the scope of the ML/AI technology and its applications in the industry.

Workshop on GIT and Some Basic WebD @ JIM

A Session on "Social Impact through Innovation" delivered by the Ms. Prerna Prasad, Founder of Ecoplore @ JIM

Android Developers Community Building workshop

We have been regularly organising meet-ups for different skills set, in this series we organised the android developers community building workshop.

Start-up Meet

This workshop was organised to train the students to learn How to code and implement Robot in simulator.



Innovation and Entrepreneurship Workshop

Organised @ DUDIC between 29 Sep to 05 Oct 2018. A 5 Day intensive crash course for young innovators aspiring to have their own start-up attended by 60 Students from different colleges of Delhi

Delhi Design Innovation Bootcamp 20018

Organised in collaboration with DIC IIT Delhi, DIC SPA Delhi and DUDIC was a series of 3 today's workshop at each center and a 5 day bootcamp at DUDIC. More than 160 students participated in the workshops and more than 90 students attended 5 days prototyping bootcamp 27-31 October 2018 @ DUDIC



Courses

Art & Design

@ Cluster Innovation Center, University of Delhi

A semester paper for VI sem B. Tech. (Mathematics and IT Innovation) students

Microcontroller Based System Design

@ IUST

A semester paper for 3rd year students of Electrical, Electronics and Communication, Computer Science and Engineering, and Mechanical Engineering.

Fundamentals of Design

@ IUST

A semester paper for 2nd year UG and PG students of IUST

Mechatronics

@ IUST

A semester paper for 3rd year students of Electrical, Electronics and Communication, Computer Science and Engineering.

Basics of Mechatronics Design

@ IUST

Certificate Course for 1st and 2nd year Mechanical and Electrical Engineering student

PCB Design Learning on Altium Designer

@ IUST

Certificate Course for 3rd and 4th year Electrical Engineering, Electronics & Communication

Micro-controller based System Design

@ IUST

Number of Student Enrolled: 18

Fundamentals of Design

@ IUST

Number of Students Enrolled: 11

Mechatronics

@ IUST

Number of Students Enrolled: 30

PG Diploma Program in Entrepreneurship, Innovation and Design Thinking

@ JMI