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Innovation  
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Cluster Innovation Centre  
UNIVERSITY OF DELHI

**2020 - 2023**

# Partners



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Jamia Milia Islamia (JMI), Delhi



Islamic University of Science & Technology  
(IUST), Srinagar



Lady Irwin College (LIC), Delhi



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# **Incubation of Innovative Ideas and Start-ups**



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# Start-Up

DIC, University of Delhi (DU-DIC), Delhi

## IndiJaan: Transforming Food System



IndiJaan Activated Agrifood Pvt. Ltd.  
Transforming Food System



<https://www.indijanglobal.com/>

### Focus Area

Post-Harvest, Food Technology  
and Value Addition

### Founded In

2020

### Location

Begusarai, Bihar

### Problem Statement

Three intertwined problems—Lower income of Small and Marginal Farmers, Inability of Small Food Processors to scale & sustain their businesses and rising epidemic of Malnutrition, NCDS & Hidden Hunger.

### Tech Brief

Creating an integrated tech-enabled offline ecosystem under which we are providing farmers procurement & primary processing at the village level and small food processor food processing inputs and customer Functional, nutritious food products.

### Unique Selling Proposition

- For Small & Marginal Farmers:** Procurement and Processing at Village level of traditional as well as winning crops.
- For Small Food Processors:** One-stop solution for sale effective design & Packaging, Product Development, Equipment & tools, Raw material, and Additional Capital.
- For Customers:** Minimally Processed, Functional, Nutritious, food products backed by indigenous wisdom and Modern Science— Food Synergy, Food Technology.

5875

UNITS SOLD

700Q

PROCURED

5000

CUSTOMERS  
REACHED

34 L

REVENUE



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# Start-Up

DIC, University of Delhi (DU-DIC), Delhi

## DeepLogic AI



## Your Partner for AI-Powered Business Growth

Greetings!

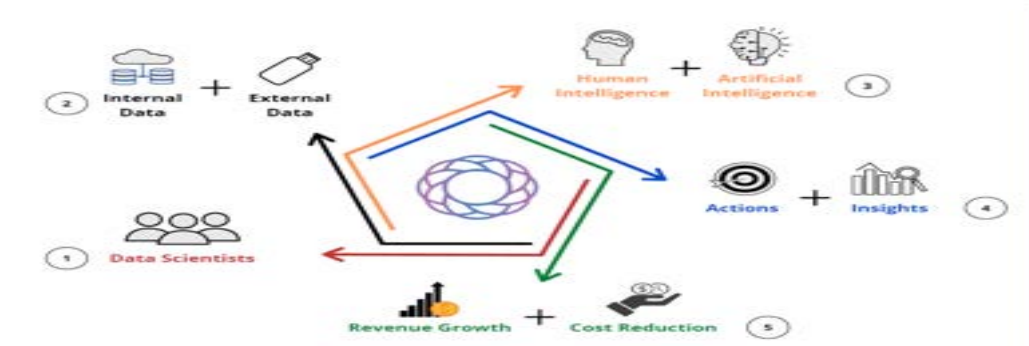
DeepLogic AI is a technology consulting firm with a focus on building AI-powered applications according to your needs. Our goal is to enable AI adoption across organizations, allowing them to optimize their business processes & develop new avenues of business capabilities.

- ✓ Are you looking for business growth ideas for your organization?
- ✓ Curious if custom-made AI technology can be the solution?



CLIENTS

## We work with a wide variety of industries & users



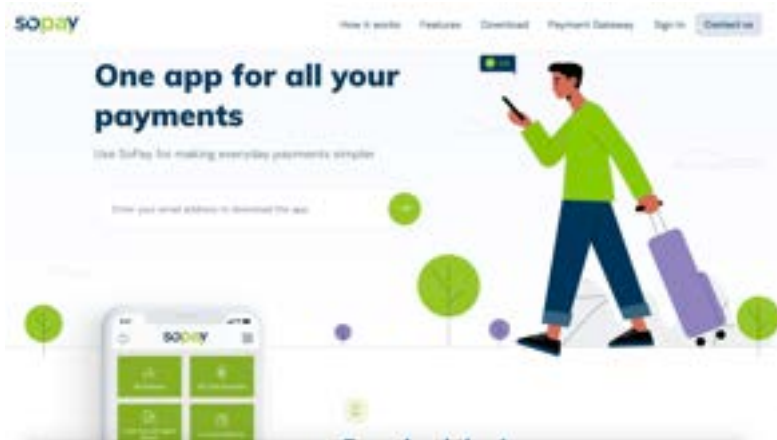


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# Start-Up

Jamia Milia Islamia (JMI), Delhi



**SoPay:** SoPay is an all-in-one mobile money solution which is a fast, simple, convenient, secure and affordable way of transferring money, making payments and doing other transactions using a mobile phone.

**Kaksha.live:** The premier school management system designed to make life easier for parents, teachers, and students. By collaborating with us, schools can streamline their operations and focus on what matters most: providing a high-quality education to their students



Welcome to **कक्षा.LIVE**





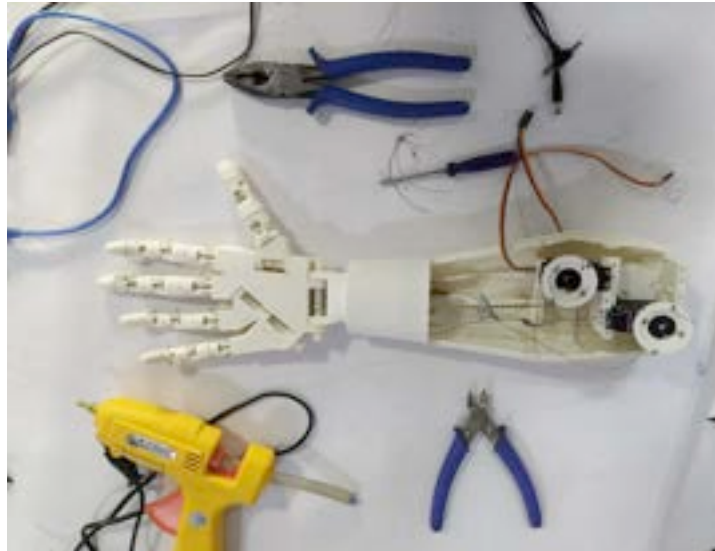
# Start-Up

Jamia Milia Islamia (JMI), Delhi

**Quilt Comfort:** Quilt Comfort fastest-growing D2C pregnancy-care startup that aims to revolutionize the lifestyle of pregnant women. They design exclusive products that promote active pregnancy which makes the pregnancy journey active, healthier and easier.



**NicheBy.com:** The team collaborates with the existing placement cell/admin staff, where the team carefully analyses the requirements of the universities/colleges. After an in-depth review and strong analysis of the requirements, they reach out to the companies best for the institute and bring them to campus.



**Edhence.com:** In order to help students alter their jobs and become future-ready, Edhence is the most reputable provider of skill-based certificate programs with placement assistance. We collaborate with top universities and businesses to offer adaptable, accessible, and career-relevant online learning to people and organizations all around the world.

# Start-Up

Jamia Milia Islamia (JMI), Delhi

**Alternate Dynamics:** Upper limb prosthetics are designed to provide users with smoother control, a lightweight feel, and better functionality. With the help of machine learning and real-time trained datasets, Alternate Dynamics can continuously upgrade its products and provide a better user experience. Alternate dynamics is a Biotechnology company, inspired to help differently-abled people take back again normal activities with their flagship product - a fully functional upper limb prosthetics hand.

Edhence

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## WHAT MAKES US DIFFERENT

Transform your career with a world-class education.

**Developing real-world skills**

You'll gain knowledge and skills that are validated by the industry while getting mentored by world-class professionals.

**Connect with the best**

Experience Edhence's 100+ courses and get your doubts cleared personally by renowned industry experts who are on top of their game.

**Providing flexibility in delivering value**

Work, study, and life commitments can all be balanced with Edhence's flexible courses.

**Future lies in community-led learning**

Become a part of an ecosystem with other learners who can help you find opportunities, including jobs and freelance projects.



**Spark India:** Spark India is a B2B E-commerce marketplace, it allows MSMEs to sell and buy their products through unique technology and futuristic features such as build your brand, live commerce, and voice-integrated AI chatbot to enhance retailers' and manufacturers' online trade experience. Sparkindia focuses on doorstep fast logistics, transactions, and product quality assurance as well as offers accounting, order management, and payment management solutions.



**Acadenow:** Acadenow is the revolutionary All space gaming and learning smart platform powered by web3 technology and integrated with Artificial Intelligence. With a focus on providing holistic gaming and learning experience, Acadenow offers a range of courses on web2 and web3 technology for learners and developers, as well as play to earn, play to multiply, and play for fun gaming options.



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**Patents Filed**

# Patent Granted

Jamia Milia Islamia (JMI), Delhi

Vehicle Escape Tool remains attached to the seatbelt, can easily be positioned according to need and is able to cut the seatbelt effortlessly in fraction of second as compared to other solutions present in market. As it is installed on the seatbelt, it always stays within reach. The device and operating mechanism are simple. No moving parts or electronic parts thus nearly zero points of failure. The seatbelt resides in a prong-shaped metallic sliding cutter which itself resides in an external housing. The housing is orange in colour for high visibility. The slider is corrosion-resistant spring steel. The cutting blade is made of high hardness Iron and can be upgraded to ceramic or steel.



## Accidental Use Deterrent

### Warning Tape Seal

- Blocks handle access
- Adequate resistance
- Psychological factor
- Just the right amount of steps
- Easy to remove
- Easy manufacturing
- Instant installation
- Single use/replacable
- Cheap and instant reinstall
- Self repair is possible.



Vehicle Escape Tool

Patent No. 402846 (2022)



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# Patents Granted/ Published

Islamic University of Sci. & Tech. (IUST), Srinagar



Granted (Design Patent)



Published (Industrial Patent)

S.No	Patent Application No		Product Name
1	335076-001		Negative Pressure Chamber
2	337122-001		Automatic Book Page Flipper for Disabled
3	337123-001		Face Splash Guard
4	337124-001		Frugal Mechanical Ventilator with Vertical Actuation
5	337125-001		Frugal Mechanical Ventilator with Horizontal Actuation
6	201911019834		Situational Awareness and Alarming System for the Hearing Impaired
7	201911024652		Development of an Assistive Haptic Device “Hapkid” for Refinement of Motor Skills in Children
8	202211063914		Prayer Time Indicator Based on Internet of Things

# Patents Filed

Islamic University of Sci. & Tech. (IUST), Srinagar

● Awaiting Publication (Design Patent)

S.No	Patent Application No	Product Name
1	365226-001	● Branch Bending Clip
2	366811-001	● Air Pump for Potable Powered Air Purifying Respirator
3	366810-001	● Air Filter for Potable Powered Air Purifying Respirator
4	366809-001	● Air Handling Unit for Potable Powered Air Purifying Respirator
5	367226-001	● Rotary Inverted Pendulum Setup
6	367227-001	● Knee Exoskeleton for Assistive Walking
7	375967-001	● Double Rotary Inverted Pendulum Setup





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**Products Designed**



# Product Design

Jamia Millia Islamia (JMI), Delhi



**SuperDev:** is a one-stop solution for all the needs of front-end developers and designers, including text editor, screenshot tool, site design information, color picker, image extractor, page guidelines, and page ruler among its massive set of toolbelt. It also includes a range of features such as live preview, real-time updates, and page reload, making it easier for developers and

**Expanse Aerospace** is India's First Space Transportation and logistics Startup". We're building a "BOSON" OTV (Orbit Transfer Vehicle). A customizable & reusable in-space logistics vehicle to bridge critical gaps. Expanse Aerospace is building a reusable third-stage tug to address the problem of last-mile delivery in space

Expanse Aerospace is building a reusable third stage tug to address the problem of last-mile delivery in space.



**Simplify Note** Chrome Extension allows you to add text, images, and quotes to Google Docs with just a single click. The extension automatically formats your content, so it looks great in Docs. Plus, everything you add is synced across all your devices, so you can access your notes from anywhere. With Simplify Note, taking and organizing notes has never been easier.

# Product Design

## Jamia Milia Islamia (JMI), Delhi



**Platocast** is a wheelchair power add-on/clip-on-kit/power assist is a medical device Class I that provides manual wheelchair users with an easy-to-use power boost. It is designed for people who are unable to walk but who can independently move in a wheelchair. Thanks to quick adjustment possibilities and easy clip-on systems for a wide variety of wheelchairs, power add-ons may be used by people with a wide variety of walking impediments.



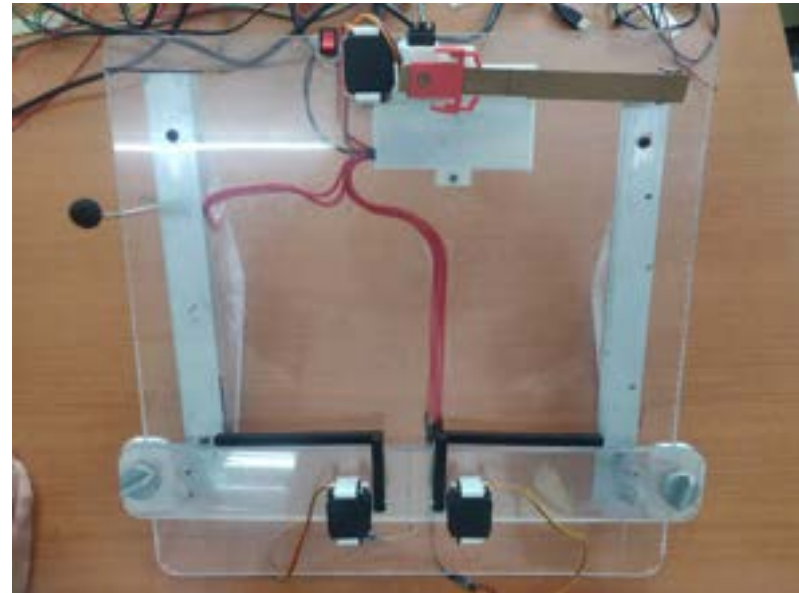
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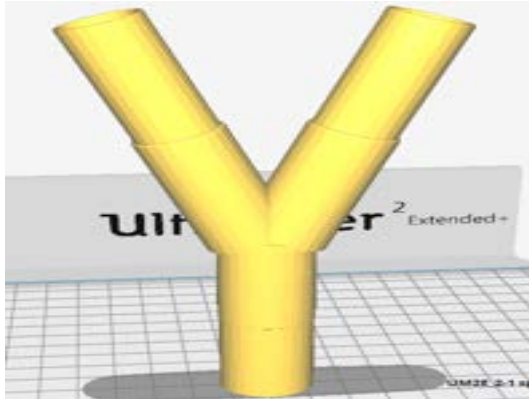
**MAGICFLIP** is a device to help neck-down-disabled people to turn book pages. Such people can easily read books and turn pages using voice control. Design Registration of this product has been filed under application number 337122-001 at India Patent Office.

# Product Design



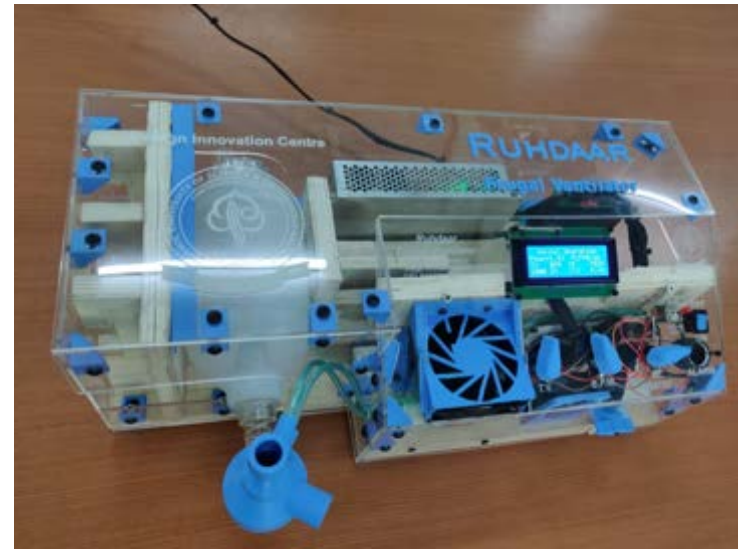
**Face Splash Guard – Face Shield:** Low Cost, easy to use Face Splash Guards made from locally available materials for medical and health workers facing the COVID-19 situation were made during the height of the COVID-19 pandemic. Design registration was also filed for this product and the design has been accepted and published in journal No 02/2022 dated 14/01/2022 at India Patent Office. The design number is 3337123-001.





**Ventilator and Oxygen Splitters for the super-speciality hospital SKIMS** are simple 3D printed designs that have one input and multiple outputs to connect one ventilator to multiple patients at the same time. They have been used in many countries to cope with the shortage of ventilators in view of the huge patient influx during COVID 19.

**RUHDAAR 1.0**, a low cost mechanical ventilator was primarily developed to assist hospitals in the ongoing pandemic, COVID-19. The developed ventilator provides sufficient control on the necessary parameters, viz. Tidal Volume (TV), Breaths Per Minute (BPM) and Inspiration Expiration (IE) Ratio, required by the medical practitioners. The design has been accepted and published in journal No 50/2021 dated 10/12/2021 at India Patent Office. The design number is 337125-001.







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Islamic University of Sci. & Tech. (IUST), Srinagar

# Product Design

**AirVac 400 Negative Pressure Chamber** is a type of hospital chamber that keeps patients with infectious diseases away from other patients and healthcare workers. It includes ventilation that creates a negative pressure (pressure lower than ambient pressure) to allow air to flow into the isolation chamber but not escape from the chamber.



**AirVac 40 + Negative Pressure Chamber:** After a rigorous testing of Airvac 400 and discussion with various doctors, following modifications were implemented in AirVac 40+: The size of the chamber was reduced. Higher ACH value and Negative Pressure values were achieved. Better Air Filtration design implemented. Design registration was also filed for this product and the design has been accepted and published in journal No 29/2021 dated 16/07/2021 at India Patent Office. The design number is 335076-001.

# Product Design

Lady Irwin College (LIC), Delhi

## Circular Approach to Design

- Post Harvest Waste Management
- Cement Composite

## Toys/ Games

- Toys based on Indian Traditional Art & Craft
- Edutainment Toys
- Swachh ToyCathon 2022: Toys from Waste Material
- Toys for Physical Fitness

## SUP Alternatives

- Reusable Lunch Box
- Cutlery Pouch
- Carry Bags
- Paper Plates

## Application of Traditional Art & Craft

- Madhubani, Pattchitra, Gond Art, Warli Art
- Lifestyle Products for Corporate Gifting
- Desk Organizer, Planter, Serving Trays, Coasters, Wall Hangings



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# **Courses & Workshops**

# Regular Courses

- Design Thinking (DU DIC)
- Innovation and Entrepreneurship (DU DIC)
- PG Diploma Program in Entrepreneurship, Innovation and Design Thinking (JMI)
- Entrepreneurship Development Program (JMI)
- Microcontroller Based System Design (IUST)
- Mechatronics (IUST)
- Fundamental of Design (IUST)



**3 days International Workshop & Certificate Course on Social Innovation, Entrepreneurship and Start – Up**

**10<sup>th</sup> – 12<sup>th</sup> November, 2022**



**2 days workshop on ICT Embedded pedagogy for School Teachers**

**13<sup>th</sup> – 14<sup>th</sup> December, 2022**

## **DU – DIC Workshops**



**1 day workshop on Intellectual Property Rights and Importance of Startup Connect**

**23<sup>rd</sup> August, 2022**



# DU – DIC Workshops

Course code- DUCIC0082

## 2D AND 3D PRODUCT DESIGNING



This is a short online training in blended learning format: online interactive classes through online VC apps, assignments, case studies, project work, evaluation.

Design Innovation Centre, University of Delhi offers a number of online skill courses to promote design thinking, entrepreneurship and startups.

In this course we learn basics of Digital Design & prototyping by laser cutting and 3D printing.

When	Course Content
May 26-27, 2020 June 9-10, 2020 June 23-24, 2020	<b>Introduction</b> What is 2D & 3D product design?
	<b>Laser cutting for product designer</b> What is   How it works   Application   Material used
	<b>Getting Ready to laser cutting</b> Crafts & preparation   Pre-Assembly   Consideration to be kept in mind
	<b>Understanding 3D design process</b> Software   Process   Scope
	<b>3D printing Overview</b> What is   Type   Advantages
	<b>3D Modeling</b> Making file   Consideration to be kept in mind

**Who**  
UG/PG students, Innovators and Startup Promoters

**Duration**  
2 Days

**How to apply**  
Online, Visit [www.duic.in](http://www.duic.in)

**Expected Learning outcome**  
Understanding of 2D & 3D design and prototyping process using Laser and 3D Printer.


You'll be issued completion certificate with grade by Design Innovation Centre, University of Delhi.



For more details visit [www.duic.in](http://www.duic.in)

Course code- DUCIC0082

## BRANDING BASICS



This is a short online training in blended learning format: online interactive classes through online VC apps, assignments, case studies, project work, evaluation.

Design Innovation Centre, University of Delhi offers a number of online skill courses to promote design thinking, entrepreneurship and startups.

This course is aimed at people who are talented in their field but feel overwhelmed by branding and how to get started with their own business. We will start to learn about how to design brand identity from scratch.

When	Course Content
May 26-27, 2020 June 9-10, 2020 June 16-17, 2020	<b>Design Principles</b> Creating the code to great design with a solid foundation
	<b>Introduction to Branding</b> What is a "brand"?   What is Branding?   How to build a brand
	<b>Branding Elements Part 1</b> Identified your place in the market   Brand's focus and Personality   Choose a business name   Write a slogan   Design your logo
	<b>Branding Elements Part 2</b> Creating a logo mark   adding typography   presentation
	<b>Color Theory and psychology</b> Using Color Wheel   Color Experiment   Psychology of colors   Choosing Color for a brand
	<b>Stationary Design and Mockups</b> Learn creating Letterhead   Envelope   Business Card   Packaging Design   How to present your work

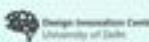
**Who**  
UG/PG students, Innovators and Startup Promoters

**Duration**  
2 Days

**How to apply**  
Online, Visit [www.duic.in](http://www.duic.in)

**Expected Learning outcome**  
Participants shall acquire an understanding of design principles by realizing what brand is and the key things you'll need to get your business started.

You'll be issued completion certificate with grade by Design Innovation Centre, University of Delhi.



For more details visit [www.duic.in](http://www.duic.in)

Course code- DUCIC0082

## DESIGN INNOVATION AND STARTUP



This is a short online training in blended learning format: online interactive classes through online VC apps, assignments, case studies, project work, evaluation.

Design Innovation Centre, University of Delhi offers a number of online courses to promote design thinking, entrepreneurship and startups.

In this course we explore the idea of applying a holistic design process to real-world challenges, and create solutions that can be effectively put into the market.

When	Course Content
May 19-20, 2020 June 2-3, 2020 June 16-17, 2020	<b>Design Innovation</b> Problems to solutions, Difference between design and design innovation
	<b>Perspectives</b> Designer   Company   Business Product Desirability, Feasibility and Viability
	<b>Entrepreneurship</b> Risk   Funding   Clarity and Preparation   Commercial viability, Designer and innovation
	<b>Team</b> Spent and resources inside and outside   10 new products, environments, experiences
	<b>Entering Market and Traction</b> Design   Business   Tools, When to launch, Where to launch, Whom to target, How to launch
	<b>Legal</b> Tech and Quality   Marketing   Manufacturing   Finance and Admin   Legal Affairs

**Who**  
UG/PG students, Innovators and Startup Promoters

**Duration**  
2 Days

**How to apply**  
Online, Visit [www.duic.in](http://www.duic.in)

**Expected Learning outcome**  
Understanding innovation, and being able to execute it from scratch to market

You'll be issued completion certificate with grade by Design Innovation Centre, University of Delhi.



For more details visit [www.duic.in](http://www.duic.in)

Course code- DUCIC0182

## DESIGN THINKING



This is a short online training in blended learning format: online interactive classes through online VC apps, assignments, case studies, project work, evaluation.

Design Innovation Centre, University of Delhi offers a number of online skill courses to promote design thinking, entrepreneurship and startups.

In this course we explore Design Thinking, a technique used by designer to generate new ideas for products and services; this course offers the creative technique of Design Thinking that can be applied to every aspects of life.

When	Course Content
May 19-20, 2020 June 2-3, 2020 June 16-17, 2020	<b>What is Design Thinking</b> understand new age definition of design thinking, a psychological perspective on Thinking and as a tool to solve problem
	<b>Why learn Design Thinking</b> Design thinking can be used to generate new ideas and drive our contribution in variety of thoughts and decision-making process
	<b>Where Design Thinking is applied</b> Case studies of non-technical examples where design thinking is applied to solve problems
	<b>How to do Design Thinking</b> Learn techniques like creative solution, lateral Thinking, Mind Mapping, SCAMPER to generate new ideas and apply whenever there is a mental block.

**Who**  
UG/PG students, Innovators and Startup Promoters

**Duration**  
2 Days

**How to apply**  
Online, Visit [www.duic.in](http://www.duic.in)

**Expected Learning outcome**  
The participants are expected to understand basics of Design thinking technique that they can apply in development of products and services.

You'll be issued completion certificate with grade by Design Innovation Centre, University of Delhi.



For more details visit [www.duic.in](http://www.duic.in)

Course code- DUCIC0282

## ELECTRONIC PRODUCT DESIGNING



This is a short online training in blended learning format: online interactive classes through online VC apps, assignments, case studies, project work, evaluation.

Design Innovation Centre, University of Delhi offers a number of online courses to promote design thinking, entrepreneurship and startups.

In this course we mainly focus on hardware electronic designing as well as an overall discussion on Embedded, IoT & Solar products.

When	Course Content
May 21-22, 2020 June 4-5, 2020 June 18-19, 2020	<b>Develop the Electronics</b> Electronic process & product development Strategy
	<b>A brief study on Electronics</b> Electronic components & its application   Electronic tools, Designing software & its utilization
	<b>Electronic products</b> Embedded Electronics, IoT & Solar products
	<b>Prototype Design</b> Schematic circuit design, Simulating of the design, PCB design EDA, PCB Prototype design
	<b>Project work</b> Hands-on prototype design by the use of software
	<b>Case Study</b> Modern world Sustainable Development projects

**Who**  
UG/PG students from any background & start-up enthusiasts focused on Electronic product innovation

**Duration**  
2 Days

**How to apply**  
Online, Visit [www.duic.in](http://www.duic.in)

**Expected Learning outcome**  
Participants shall be able to understand various electronic product development process in different segments like IoT, Solar etc. including knowledge of schematic & PCB designing.

You'll be issued completion certificate with grade by Design Innovation Centre, University of Delhi.



For more details visit [www.duic.in](http://www.duic.in)

Course code- CISE0182

## UNDERSTANDING SOCIAL ENTERPRISES



**CISE, KMC & DIC, DU**

This is a short online training in blended learning format: interactive classes through online VC apps, assignments, case studies, project work, and evaluation.

Design Innovation Centre, University of Delhi offers a number of online courses to promote design thinking, entrepreneurship and startups.

When	Course Content
May 28-29, 2020 June 21-22, 2020	<b>Introducing Social Innovation and Social Enterprise</b> Meaning, Role and Significance in Current Context
	<b>Social Enterprise</b> The Burning Boundaries Between Nonprofits, Socialism, and Business
	<b>Theory of social change</b> The social value proposition and identifying a social business opportunity
	<b>Social Enterprise and Corporate Social Responsibility, Sustainable Development Goals</b>
	<b>Opportunities</b> Case Studies and Profile of a Social Entrepreneur and Social Enterprise
	<b>Design Thinking, Solution design and Startup</b>

**Who**  
UG/PG Students and Entrepreneurs

**Duration**  
2 Days

**How to apply**  
Online, Visit [www.duic.in](http://www.duic.in)

**Expected Learning outcome**  
Participants shall gain familiarity about social enterprise and how they are creating solutions to tackle societal problems, learn how to develop innovative solution to address social problems, and social entrepreneurship as a force for social change.

You will be issued completion certificate with grade jointly by CISE, KMC & Design Innovation Centre, University of Delhi.



For more details visit [www.duic.in](http://www.duic.in)



**School Outreach Programme on CAD and Rapid Prototyping with School Children**

**1<sup>st</sup> June 2022, 2022**

**IUST  
Workshops**



**2 days certificate course on Printed Circuit Board Designing**

**6<sup>th</sup> – 7<sup>th</sup> April, 2022**



# Design Innovation Centre

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Design Innovation Centre

DREAM Building  
University of Delhi  
Delhi - 110007