

# CLUSTER INNOVATION CENTRE (CIC)

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**Cluster Innovation Centre**, University of Delhi has been introduced with the aim to provide innovative curriculum and multi- programmes to the students. It provides a springboard for new ideas to emerge and constantly translate them to workable projects in the real world.

Cluster Innovation Centre is an institution in the University of Delhi .Through its Cutting edge degree programmes the centre exposes a bright cohort of students to the most advanced research, techniques and methodologies in their respective streams.

University of Delhi is still in a process to provide various multi-programmes and curriculum in Cluster Innovation Centre.

## CONCEPT:

Cluster Innovation Centre aims to break the functional fixedness of academic and look at the world with a new perspective using state of art facilities.

Cluster Innovation Centre (CIC) also acts as the platform for an alliance between the Industry and Academic with its team of leading researchers acting as a catalyst for innovation and problem solving.

Cluster Innovation Centre (CIC) provides a platform to University of Delhi and all its partners to forge mutually beneficial linkages to initiate and assist innovation activities and act as a catalyst and facilitator.

CIC connects and facilitates various stakeholders on all aspects of the innovation process including training and support.

CIC acts as a hub for Innovation activities, facilitating and guiding development of ideas into innovative applications that can benefit society directly or can be marketed successfully.

## AIM/ OBJECTIVE:

Cluster Innovation Centre aims to create and develop innovative research breakthroughs thereby helping nascent entrepreneurs to explore and expand their horizon. Cluster Innovation Centre (CIC) aims at:

- Providing those programmes which are exposed to most advanced research techniques and methodologies.
- Club the theory and practical programmes with most sophisticated tools and techniques.
- Providing a hub for Innovation activities, facilitating and guiding development of ideas into innovative applications that can benefit society directly or can be marked successfully.
- Facilitate collaborations and partnerships with Industry, Academic and other Stakeholders.

## **COURSE OFFERED AT CLUSTER INNOVATION CENTRE:**

Cluster Innovation Centre provides three programmes till date, which are as follows:

- B. Tech / B.S. (Innovation with Mathematics and Information Technology).
- B. Tech (Humanities).
- Master of Mathematics Education.

## **FACILITIES AT CLUSTER INNOVATION CENTRE:**

### **❖ Information Technology Engineering Kitchen-**

The University has invested in a state of the art Information Technology Lab. It provides for the incubation of innovative ideas and solutions to real life problems. The Lab is equipped with Computers having both Windows and Linux OS. The software development programs such as:

- Programming - C, C++, JAVA, FORTRAN, Prolog, Visual Basic
- Computer Aided Software - MATLAB, Mathematica, Maxima
- Packages - Scilab, Latex, PSPICE
- Multimedia - Adobe Photoshop, Corel Video Studio, Blender, Google Sketch Up

### **❖ Electronics Engineering Kitchen-**

The Electronics Lab is well equipped with state-of -the-art facilities such as electronic components PCB designing facility etc., for catering the research and innovation needs of Cluster Innovation Centre.

### **❖ Artificial Intelligence and Robotics Laboratory-**

The Artificial Intelligence and Robotics Laboratory aims to work on research problems and innovative projects that extend the state of the art in Robotics. The undergraduate course has semester workshops by E-Yantra. Students shall also to be given an option to clear their 7 credits of the 7th Semester in Robotics that will be taught and evaluated by E-Yantra, IIT-Bombay. This module intends to provide capabilities and basic understanding concepts of computer controlled motion in different scenarios. It will provide an insight of the technology that deals with the design, construction, and operation and its application in manufacturing and automation processes.

The Artificial Intelligence & Robotics Lab is under an overhaul. E- Yantra and University of Delhi shall jointly set up the lab.

## **BACHELOR OF TECHNOLOGY (Innovation with Mathematics and I.T.)**

University of Delhi offers four year B. Tech / B.S. Programme in Innovation. The programme includes training in core Mathematics, IT and Science disciplines and additional courses on innovation and technology management, entrepreneurship, business, communication etc.

There is a strong focus on problem solving, project work and training from real world problems as Innovation is fundamentally an application oriented domain. The students should have the flexibility to undertake innovative problem solving projects in collaboration with industry and other stakeholders to earn their credits within a broad framework

### **Duration of Course:**

The duration of B. Tech / B.S. programme (Innovation with Mathematics and I.T.) is four years in University of Delhi.

### **Eligibility Criterion:**

The minimum eligibility criteria for B. Tech / B.S. programme (Innovation with Mathematics and I.T.) is Class XII or Equivalent Certificate with minimum aggregate 60% in four subjects for General Category Students.

- 54% in four subjects for OBC Students.
- 55% in four subjects for PH Students.
- Pass marks for SC/ST Students with Mathematics as one of the four subjects.
- Students should be currently enrolled in any regular full time programme of study at the University of Delhi.

### **Admission Process:**

- Written Test with multiple choice questions (Two hours duration).
- Interview of the short listed students.

### **Course Fee:**

The Course Fee for B. Tech / B.S. programme (Innovation with Mathematics and I.T.) is Rs.5000/- per semester.

**\*Fee is subject to change.**

### **Number of Seats offered:**

The number of seats offered in B. Tech / B.S. programme (Innovation with Mathematics and I.T.) is 40(Reservation as per University Norms)

**Note: Seats are subject to change by the University of Delhi.**

## **BACHELOR OF TECHNOLOGY (Humanities) Meta College Concept:**

Bachelor of Technology (Humanities) seeks to enable students to draw upon the resources, talent and expertise available in different colleges. The course helps students in holistic understanding of Humanities.

It is a four year degree course which offers the students freedom to choose courses to specialize in the following streams:

- Journalism
- Education
- Historical Tourism
- Counselling
- Art and Design

### **Duration of Course:**

The duration of B. Tech in Humanities is four years in University of Delhi.

### **Eligibility Criterion:**

Students should be enrolled in any Full time programme at University of Delhi.

### **Admission Process:**

Written test with multiple choice question (one hour duration).

Interview of the short listed students.

### **Course Fee:**

The Course Fee for B. Tech in Humanities is Rs.5000/- per semester.

Rs. 1000/- Refundable Library Security.

**\*Fee is subject to change.**

### **Number of Seats offered:**

The total number of seats available for B. Tech in Humanities is 40. (Reservation as per University Norms)

**Note: Seats are subject to change by the University of Delhi.**

## **MASTERS OF MATHEMATICS EDUCATION**

University of Delhi and Jamia Millia Islamia have jointly introduced a two year degree programme i.e. "Masters of Mathematics Education." which is equivalent to M. Sc. in Mathematics Education under Meta University Concept.

### **Duration of Course:**

The duration of Masters of Mathematics Education is two years in University of Delhi.

### **Eligibility Criterion:**

Bona fide Undergraduate Degree in any Discipline provided that the applicant has studied at least two full papers in Mathematics at Undergraduate level.

### **Admission Process:**

- Entrance test (One Hour Duration)
- Interview of Short listed Students.

### **Course Fee:**

The Course Fee for Masters of Mathematics Education is Rs.5000/- per semester.

**\*Fee is subject to change.**

### **Number of Seats offered:**

The total number of seats available for Masters of Mathematics Education is twenty (20).

**Note: Seats are subject to change by the University of Delhi.**

## **CONTACT AT:**

- Cluster Innovation Centre,  
Rugby Sevens Building, University Stadium,  
Cavalry Lane, University of Delhi,  
Delhi-110007  
Phone: +91-11-27666702  
E-mail ID: [info@cic.du.ac.in](mailto:info@cic.du.ac.in)  
Website: [www.cic.du.ac.in](http://www.cic.du.ac.in)