



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established by Government of Gujarat under Gujarat Act No. : 20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી
(ગુજરાત સરકારના ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

No.: GTU/GIC/DIC/Prototype/2021/ ૩૭૫૫

Date: 16 / 07 / 2021

Circular

Invite Application from Students/Faculties/Innovators

To,

Students/Innovators/Faculties/Principals/Directors of Colleges affiliated to GTU

About Design Innovation Centre (DIC) – GTU:

GTU since its foundation in 2007, is striving to create, achieve and support the unique initiatives in design, innovation and entrepreneurship to build a holistic ecosystem by intervention of latest technologies. Considering its efforts in developing such ecosystem, MHRD has awarded the grant to GTU for establishment of a full-fledged Design Innovation Centre (DIC) to promote, nurture and advance the culture of design, innovation, creative problem solving and entrepreneurship among young minds at GTU premise as Hub and other three institutes in Rajkot, Surat and Modasa as spokes to cover entire state. DIC would support Innovators in product design and development, prototype building through full-fledged FabLab, mentorship and networking, IPR support, training and workshop, skill developments, fellowship and awards to best projects/solutions and co-working space.

To inculcate culture of innovation amongst the students and to provide a conducive environment for optimum harnessing of their creative pursuit, GTU has received the grant from MHRD to establish Design Innovation Centre having Hub & Spoke model to promote, nurture and advance the culture of design, innovation, creative problem solving and entrepreneurship among young minds by supporting their innovative ideas/projects under this scheme. GTU premise being a Hub would have full fledge FabLab (Fabrication/Prototype facilities) to cover entire state, also **would support innovations and projects at their premise/GTU premise**. Fresh proposals are invited from institutes/universities for grant under DIC. As per the provisions of the policy proposals can be developed to receive support under DIC Scheme.

For detailed circular kindly Visit below link for circular uploaded on 31/07/2019 on GTU Website.

<https://bit.ly/2QpvcFs>

**Winners of : ICT Enabled University Award E-India - 2009 ❖ Manthan Award - 2009 ❖ GESIA Award -2011
❖ Digital Learning WES - 2011 Award ❖ AIMS International Innovative University Award - 2013**



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Students/Innovators shall submit their Solution on mention problem statement/Theme

. Apply Now: <https://forms.gle/oByyWrecp8A1eKRv5>

- **Health Care**

- IoT based Smart bottle for Healthcare
- Virtual reality (VR) for Yoga-Asana, Meditation
- Virtual Assistant for Medical Device
- Tracking of babies discharged from Sick New Born Care Unit
- Smart Health Monitoring System
- Prosthetic Hand/Leg

- **Agriculture**

- IOT for monitoring oxygen levels in shrimp ponds for better nutrient management
- IOT for controlling surface irrigation using soil moisture analysis
- Solar Powered Smart Irrigation System
- Ghee Making Machine
- Real time Crop Monitoring System

- **Robotics & Drone**

- AI Based Interactive robot for elder person
- Robotic Arm for inspection, cleaning and painting of tanks on ships to save on time, cost and avoid accidents.
- Intelligent Scanning System (For Passenger Luggage, Parcel for Courier Services)
- Automatic Chess Playing Robot
- UAV's for Disaster Identification and alerting System

- **Smart Cities**

- IoT and AI based Smart City Solution for Public Utilities like surveillance, garbage pickup, road maintenance, encroachment detection, incident reporting, virtual patrolling etc
- Pre-paid Energy Meter

- **Smart Education**

- CLASS ROOM ATTENDANCE

- **Mobile/Website based Problem**

- A mobile based Inventory Management system using QR code application

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- Portal for Farmers to sell the produce at a better rate
- Automatic Job-card preparation system
- Smart Complain Portal
- Automatic sorting and retrieving products with barcode mark
- A digital android-based platform for generating, processing, tracking and payment of orders.
- Smart Hotel Management System
- Smart Portal for Doctors (Track Record of Patients)
- Smart Portal for Real Estate Agent (Rent/Sell Properties)
- Better and faster emergency care during accidents and vehicle impact
- National Web Portal used for designing Job oriented courses
- **Embedded System (Combination of Hardware/Software) Based Problem Statement**
 - An Mobile based Inventory Management System using QR code application
 - A Mobile App with Virtual Reality Based Gallery for Heritage Museums
 - Road maintenance record-keeping system
 - Designing of portable and low-cost ECG m-health

Some important notes

- 1) The team members can be inter-disciplinary, limited to a maximum of 4 members per team (Including Faculty).
- 2) Students/Faculty May allow to make group of Inter College
- 3) **All the necessary funding required for developing prototype will be provided by the University (under DIC Grant Funded by MHRD) to the teams shortlisted Idea.**
- 4) Teams might be required to work off-campus
- 5) All IPR with respect to the submitted prototype designs will be reserved by Team Members along with GTU for free as well as commercial usage as per the State/National Policy.
- 6) GTU DIC will provide Fellowship to Shortlisted Students (Under DIC Grant – Fellowship Head) (Approx. 2500/- Rs Monthly & 50 Hrs Monthly)
- 7) **Prototype will be submitted to GTU DIC Centre**
- 8) **Time Duration of To Complete Project/Prototype: 6 Months**


14/11/14
Registrar

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