

# “*INNOVATIVE* IDEA CHALLENGE - 2021”

Organized

By

*Institution Innovation Council (IIC), NIT MANIPUR*



On behalf of Institute Innovation council (IIC), NIT Manipur, we are organizing an **Innovative Idea Challenge**. The participants can showcase creative and innovative genius. It is a one day challenge on **25/01/2021** through online mode.

According to the performance of all the participants, the ideas to be submitted IIC sponsored competition, Govt. of India as per the recommendation of the committee.

## ❖ *SCOPE OF THE CHALLENGE*

1. Renewable Energy Sources for Rural Development
2. e- Waste Management.
3. Instrument development for biomedical applications.
4. Cultivation and Rural Development.
5. E - Sensing device development.
6. Toy development.
7. Smart communication.
8. Water resource management.

## ❖ *ABOUT THE INSTITUTE:*

National Institute of Technology Manipur is an institute of National Importance with funding support from the Ministry of Human Resource Development situate in Imphal, Manipur, India. NIT Manipur is located in Langol, Imphal-795004, which is about 10 km from the Imphal International Airport. It is one of the 31 National Institutes of Technology in India. NIT Manipur started its first academic journey in 2010. The primary goal of NIT Manipur curriculum is to develop scientific thinking in students, to promote their problem solving skills and innovate technologies.



*The main aim of the challenge is to solve the following substance under the title:*

### 1. RENEWABLE ENERGY SOURCES

#### FOR RURAL DEVELOPMENT:

- Wind energy
- Solar energy
- Biomass energy

### 2. e- WASTE MANAGEMENT:

- Waste collection
- Waste recycle
- Waste transportation
- Waste disposal

### 3. INSTRUMENT DEVELOPMENT FOR BIOMEDICAL APPLICATIONS:

- Design and delopment of low cost medical

instrument.

- Design of low cost First aid box for rural area.
- Design of smart hand washing system for pandemic situation.
- Design of electrical and electronic system for health care.

#### 4. CULTIVATION AND RURAL DEVELOPMENT:

- Low cost hand tools development for agriculture.
- Low cost water pump system design.
- Low cost system design for irrigation.

#### 5. E - SENSING DEVICE DEVELOPMENT:

- Temperature sensing device.
- Path follower system development.
- Counter design.
- Security system development.

#### 6. TOY DEVELOPMENT:

- Various type of toy development.

#### 7. SMART COMMUNICATION:

- Smart device for communication purpose.
- Low cost signaling system.
- Development of wireless jammer.
- Development of signal Booster.

#### 8. WATER RESOURCE MANAGEMENT:

- System design for water conservation.
- System design for water treatment.
- Water reuses system design
- Water logging remedy

#### ❖ SOME IMPORTANT POINTS:

- Maximum participants in a group are 4.
- Participants can also submit their innovative ideas in more than one category.
- All the participants have to done registration individually. Mention the category, sub-category and members name.
- Please submit your ideas in .pdf format after registration on 25<sup>th</sup> January, 2021 through email Id: [iicnitmanipur@gmail.com](mailto:iicnitmanipur@gmail.com)

❖ **REGISTRATION FEE:** Free

❖ **REGISTRATION LINK:**

<https://forms.gle/ZWSxuJPPjrqZiJ9V7>

❖ **VENUE:** NIT MANIPUR

❖ **IMPORTANT DATES:**

➤ **Last date of registration:** 24th January, 2021.

➤ **Date of challenge:** 25th January, 2021.

❖ **PRIZE AMOUNT:**

**1<sup>st</sup> Prize: Rs. 10000/-**

**2<sup>nd</sup> Prize: Rs. 5000/-**

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❖ **ORGANISING COMMITTEE**

**PATRON**

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(Assistant Professor, ECE, NIT Manipur)

**COORDINATORS**

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