



# **IPS ACADEMY**

## **INSTITUTE OF ENGINEERING & SCIENCE**

### **Institutional Distinctiveness**

IPS Academy, Institute of Engineering & Science established in 1999 is one of the premier self financing institutes imparting quality technical education with the sole motto of “*Knowledge, Skill & Values*”.

The unique feature of the institute is gradually shifting towards “*Self Reliant*” (Atma-Nirbhar) institute which is evident from various initiatives & subsequent achievements as under:

- Eco-friendly Environment & Waste Management
- Manufacturing of Hand Sanitizers during COVID-19
- Comprehensive Fire Safety arrangements & associated initiatives
- Innovations in Health Care
- Development of ERP Software

#### **1. Eco-friendly Environment & Waste Management:-**

Our institute is located in the heart of Indore city which was adjudged India’s cleanest city for the fourth time in a row by Government of India’s Cleanliness Survey. As a token of our contribution towards the mission of maintaining the rank for cleanliness, we collect the waste in a segregated manner. The waste is collected under the categories viz. Biodegradable, glass, paper, polythene & other organic waste. There are various treatment plants for the treatment of waste i.e. agglomeration plant to treat & recycle polythene, paper waste, etc., sewage treatment, organic waste compositor & incineration unit.

The Weather Station is installed in the institute to monitor & record the weather parameters, such as, temperature, wind velocity, rainfall, humidity etc.

The monthly Quality control analysis for drinking water is carried out which involves the measurement of parameters likes pH value, TS, TDS, TSS, COD, DO, BOD, Alkalinity, Colour / Odour to assess & improve the quality of water, if required. It is

worth noting that the Institute was awarded by RGPV for **Best Green Practices** adopted in the field of Energy Conservation in the year 2019-2020. In addition the institute received appreciation by AICTE New Delhi for its significant contributions in “**One Student One Tree**” initiative in 2019.

## **2. Manufacturing of Hand Sanitizers during COVID 19:-**

To face the challenges of COVID 19, the institute manufactured 450 Kg (till date) hand sanitizers which are satisfying all safety norms. The sanitizers were/are being distributed to all the faculty /staff members & also distributed to Indore police service, Indore Municipal Corporation & nearby society. The contribution of the institute towards COVID-19 was a remarkable one & won the first prize under AICTE conducted “**Utkrisht Sansthan Vishwakarma Award 2020 (USVA)**” for performance during COVID-19 under the theme “**India fights Corona**”. The institute has achieved First position for significant contribution in the following two categories:

Category 1-“How innovatively you are conducting classes for students of your institution during lockdown period”.

Category 2 - “Details of other support provided” to migrants.

## **3. Comprehensive fire safety arrangements & provisions:-**

Institute has made its own comprehensive fire safety arrangement, such as, fire extinguishers, wet risers with hose reel system, safety sign boards & safe assembly points at easily assessable locations aimed to prevent fire incidences in the institute premises. Standard mock drill set out for the purpose of achieving deployment of key personnel with their specific duties for an emergency. This mock drill helps and prepares the institute occupants in preventing fatalities, injuries and reduces damage to the institute buildings in unforeseen emergency situations. The institute focuses on developing technology /equipments to face the challenges related to fire & safety viz. Fire fighting Bike, Fire ball launcher, etc. to reach the fire in narrow places.

## **4. Innovations in Health Care :-**

The institute has a well established Micro Fluidics laboratory for research related to health care and collaborations with international and national institutes, as per details given below:

i. India-Japan Collaboration

Title: Development of a biocompatible vehicle for sustained delivery of lactobacillus spores as a treatment modalities for Bacterial Vaginosis

ii. India-Srilanka Collaboration

Title: Effect of Bio-fertilizer on different Rhizosphere microbes

The institute has also submitted R&D projects proposals to various funding agencies listed below:

i. India-Portugal Collaboration

Title: NFs Micro Systems: Development of advanced micro fluidic systems to assess the thermal properties of innovative Nano-Fluids (NFs).

ii. COVID-19 Project

Title: Deciphering the secret language between virus – microbes – blood cells in a micro-channel: Developing a rapid diagnostic kit for COVID-19

iii. Oral Cancer Project

Title: Micro manipulation of bio-fouling and cleaning characteristic patterns of microbial flora in saliva in a confined flow: A non-invasive diagnosis of Oral cancer

**5. Developing ERP Software:-**

The faculty & the students of the institute have developed ERP software as one of the best practices which takes care of academic and administrative data, such as, attendance of the students, marks obtained by students, mid semester examinations, student feedback on teaching learning process and facilities at the institute & departmental level, leave record of the faculty & 360<sup>0</sup> feedback and attainment of COs/ POs/PSOs etc.

It is opined that the above contributions, howsoever small, are taking us one step closer towards “Self Reliance” and have a distinctive feature from other institutions. Hopefully, the continued efforts in this direction by other institutes as well shall take us closer towards the mission of country i.e towards “*Self Reliant*” India (Atma-Nirbhar-Bharat).