



# **DST-Amity Technology Enabling Centre AUUP, Noida**

May 7, 2020

Dear Readers!

We are happy to present the May 2020 issue of the E-Newsletter of DST sponsored DST-Amity Technology Enabling Centre (TEC) established at Amity University Noida in 2019.

It highlights a few innovations & research done at various campuses of Amity Universities and other activities of TEC.

## ➤ Innovations and Research

In the current scenario of Corona virus pandemic, Scientists of Amity University are aggressively fighting against the battle of Covid-19 by innovating new technologies.

We are proud to share the innovations:

1. An Antimicrobial Face - This is made with Nanoparticle coating designed by our Scientist who invites proposals from MSMEs for commercialization.

It is a three-layered reusable, biodegradable, anti-microbial face-mask prototype. It has two layered pockets in which third anti-microbial nanoparticle coating layer or anti-inflammatory medicinal plant coating (e.g. turmeric) or essential oil sprayed layer for aroma therapy, etc., can be fit in.



2. CoronaX - A Deep Convolutional Neural Network Model for reliable detection of SARS- related coronavirus disease (COVID-19).

3. Floor Disinfectant - The floor disinfectant cleans and deodorize floor surface, removes dirt, disinfects, deodorizes and kills the pathogenic microorganisms, removes greasy and tough stains on floors and tiles that keep away flies and insects. Floor disinfectant is suitable for wet mopping and restroom surface cleaning. However, with little variation in the dilutions of concentration of active ingredients according to the requirement/demand of disinfectant application. It is suitable for

large area sanitization and sterilization for surfaces like glass, ceramic, wood, textile, etc.



### In-vitro antimicrobial Test Results

4. Diagnostic System and Method for Rapid Detection of presence of Antigen
5. 'Anti-Viral Herbal Inhaler having Nano-Gold based herbal formulation – It is a nasal cream to inhibit the infection and propagation of SARS-CoV-2 through nasal air flow.
6. 'An eco-friendly sustainable face masks'

## ➤ Collaborations

- Amity Industry collaboration is going on for an eco-friendly, economical and waste to wealth convertor technology “Fire Retardant Paddy Straw Composite”.



Paddy Straw Composite

- Industries have joined hands to do Field trials on Amity technologies:
  - 1- “A Novel Endophyte for Plant Growth Promotion” invented by Dr. Amit C. Kharkwal of Amity Institute of Microbial Technology, Noida campus
  - 2- “Natural Compost Loaded with Plant Derived Biodegradable Hydrogel for Conditioning of Agriculture Land increasing Fertility of soil and plant growth promotion” invented by Dr. Chandra Mohan Srivastava of Amity Institute of Pharmacy, Manesar, Gurgaon campus

## ➤ Webinars

Because we are under lockdown due to Covid-19 pandemic world over, the opportunity is being utilized to disseminate knowledge by organizing webinars. Our students and faculty members are effectively benefiting by getting connected wherein eminent speakers from various sectors have been invited to share their knowledge and experiences with all Amitians.

### ➤ Technologies Enabled and ready to be Transferred

TEC has helped the technologies to enable them to prepare prototype and the following few are ready to be transferred to the industry.

1. Potable Safety Device for Sewer Worker
2. Biocompatible and biopolymer based herbal coating for enhancement of shelf life of perishable fruits
3. Natural polymer-based Gelatin free capsules –Vegetarian Hard Capsules
4. Driver Identification System

## Seminars

Dates for our Seminars will be soon be flashed on our website mentioned below.

1. 'Intellectual Property Rights – From Concept to Patent Filing and Granting'
2. 3 Days' Workshop on Technopreneurship

## ➤ Start-ups

Under TEC to provide financial support to incubatee start-up some companies are identified.

Agastya Skin Care Solutions: a herbal skincare solution manufacturing company; ADEDHA: A herbal beauty products manufacturer who is also interested to manufacture floor cleaner; UNII: A dealer of refurbishing of electronic products, interested in licensing of Pebble technology of Amity; Youthancer Solutions: A platform provider for the part time jobs of various levels; A manufacturer of Perfume, Sanitizer, Floor Cleaner, etc., and a company called Heuro are also one of them.

To know more about Technology Enabling Centre please click on <https://amity.edu/ditt/dsttec/>

Thank you,

*Maintain social distance.*

*Stay Home Stay Safe.*

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