Herbal Cosmetics and Shoe-shine

Personal care products - skin creams and hair shampoos, have been formulated using proteins extracted from the waste water of silk industry and other natural compounds. These products are eco-friendly, biodegradable and have been tested under Government-approved laboratories for safe use. A Shoe-shine developed from banana-peel wastes was found to provide long-lasting shine and increase the life of leather.

Laboratory Glassware Cleansing Agent

Laboratories across educational and research institutions as well in the industry use cleansing agents for cleaning glassware that results in use of huge quantities of scarce water. The cleansing agent developed by us is eco-friendly & biodegradable, soft on skin and with a beautiful fragrance. It is effective in cleaning the glassware with minimum washings and leaves no traces of its own. It has been tested in several laboratories.

Natural Anti-mosquito Products

Natural plant extracts were screened for developing a 100% natural, biodegradable and eco-safe product against mosquitoes. The products were formulated as liquids and tablets which can be used for killing Aedes aegypti larvae breeding in puddles, water pools and home coolers. A mosquito repellent cream has also been developed which can be applied on human skin to prevent mosquito bites.

ACHARYA NARENDRA DEV COLLEGE
(University of Delhi)
Govindpuri, Kalkaji, New Delhi-110019
Telephone: +91-11-26294542
Fax: +91-11-26294540
E-mail: principal@andc.du.ac.in
http://andcollege.du.ac.in

Innovation & Entrepreneurship Development Centre

Converting Job-seekers to Job-generators...

STUDENTS' INNOVATION PROJECTS

Acharya Narendra Dev College established an Innovation & Entrepreneurship Development Centre (IEDC) in 2010 to motivate students towards entrepreneurship and educate them about the pre-requisites for setting up any enterprise. This centre is sponsored by the National Science and Technology Entrepreneurship Development Board (NSTEDB) of the Department of Science & Technology (DST), Govt. of India to promote an entrepreneurial culture within academic institutions.

IEDC also provides for projects that give space for innovative ideas of students to be distilled into workable projects that are product-oriented. Each year, IEDC provides funding for five students' research projects in various disciplines to inculcate the culture of innovation amongst students. Each project aims to create one marketable innovative product. Since its inception in 2010, the IEDC at ANDC has provided Rs. 19 Lakhs for a total of 21 students' projects.

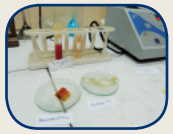
Phototherapy Blanket for treatment of Jaundice in Infants

Phototherapy is the most common treatment for jaundice in newborns. In India, neonates are at high risk of developing undetected hyper-bilirubinemia. The product developed in this IEDC project uses blue LEDs and fibre optic cables with a control unit. Fibre optic cables carrying light can be arranged inside the cloth/blanket that can easily be wrapped around the infant for phototherapy treatment. This blanket, thus, removes the dependence on the exposure of children to sunlight, a method usually used for treatment.

Tamarind-based Ion Exchanger

Tamarind-based Ion Exchanger can be used to remove toxic and hazardous metal ions like copper, lead, zinc, cadmium, mercury etc from the waste water of industries. This ion-exchanger is simple to use and much cheaper than the commercial products in the market.

Bio-active Sensor for Pesticide Residues



Pesticide residues on food items and water is the bane of modern society. In this project a sensitive, rapid, inexpensive and eco-friendly paper strip sensor has been developed for detection of pesticide residues in ground water and assorted food samples.

Low-cost Glucometer

With India having the highest number of diabetic patients in the world, the disease is posing an enormous health problem. Basic glucometers of various brands range in price from Rs.1000 to Rs. 5000. When you add the cost of the strips used, it makes regular checkups expensive for people. The glucometer developed under this project is a low cost solution, costing about Rs. 315 at current estimates.

CASE Tool Box

CASE is an abbreviation for Computer Aided Software Engineering. The prototype developed assists the project manager to estimate size, cost, schedule, risks and many other parameters of any project along with graphs and report generation facility that are required for the effective project management.

Sensor Module for Gas Sensing

A system has been developed wherein the CO_2 gas sensor module detects gas and sends quantitative data to a digital multimeter (DMM). The DMM then sends data wirelessly to an Android app enabled mobile phone using a Bluetooth dongle. The data generated is also logged into a laptop using RS – 232 interface.

Bulk Centrifuge Machine

Bulk Centrifuge machine is a low-cost equipment developed under this project of IEDC. It has been designed for centrifuging large volumes up to 2L of suspension at one time. The equipment has a adaptable flexible neck for holding the flasks of variable neck sizes thus reducing the requirement for only specified glass apparatus for centrifugation.

Soaps with Anti-fungal Compound

Fungi are the cause of various kinds of skin infections in human beings. In this project various plant-extracts were evaluated for their fungicidal properties. An anti-fungal compound has been isolated from plant extracts that can be used as a constituent in soaps against common fungal skin infections.