

Varsity ventures into scientific instrument production



Comments 0



CM Paul 21 March 2015 8205 views

The Assam Don Bosco University ([ADBU](#)) Vice Chancellor Dr. Stephen Mavelly, inaugurated the second in-house built instrument called "Superhydrophobicity Tester" on March 20. He also witnessed a live lab test using a small piece of yam leaf on which a tiny drop of water was poured. The experiment consisted of demonstrating how it could be weighed and measured with the help of a instrument with computer interface.

“It is matter of great pride that we are able to produce scientific instruments needed for research and industry testing of nano products,” said Dr Mavely informing the faculty to spend time at Lausanne University in Switzerland to conduct advanced experiments.

Explaining what the newly constructed instrument will do, Nano project coordinator Dr Sunandan Baruah says, “in layman’s terms, what the machine does is test the water resistant capacity of any material.”

The first instrument to be completed was a 'Dip Coating Machine' for growing thin films through a layer by layer process.

Another two instruments are near completion, a "Nanotemplate making machine' and a "Controlled Reactor' for hydrothermal growth of ZnO nanostructures."

The [ADBU](#) Electronics and Communication Engineering Department of the School of [Technology](#) has been designing and fabricating instruments for its two Nanotechnology labs since last year.

“As commercially available instruments for scientific experimentation need to be imported and are extremely expensive (Rs. 7-8 lakhs, ie. USD 15-16,000), the [ADBU](#) Nano [Technology](#) Team decided to build these in-house,” says Dr Baruah.

Nanoscience and nanotechnology are the study and application of extremely small things and can be used across all the other science fields, such as chemistry, biology, physics, materials science, and engineering.

Today's scientists and engineers are finding a wide variety of ways to deliberately make materials at the nanoscale to take advantage of their enhanced properties such as higher strength, lighter weight, increased control of light spectrum, and greater chemical reactivity than their larger-scale counterparts.

CM Paul

Former HoD, Dept of Mass Communications at Assam Don Bosco University, Guwahati, C.M. Paul was editor of The Herald weekly in Kolkata and director of Don Bosco International News Agency (ANS) based in Rome. He did MA in Journalism & Mass Communication from FORDHAM University, New York.

BY CM PAUL

TIST 2026 Marks Decennial Edition at Salesian College

Educationist's Autobiography blends faith, leadership, and youth empowerment

Student Wellness Takes Center Stage at North East Educational Leaders' Conference

'eComPhyMathix 2025' Inspires Young Innovators Across North Bengal

Darjeeling's First-Ever 'Doko Trail Run' Scheduled

ON THIS DAY

Assam Sahitya Sabha celebrates 'Mother Tongue Day' in Mangaldai

Main accused in police recruitment scam arrested

1st Inter Udalguri District School Athletics Meet held

Conservation activist Purnima Devi Barman receives prestigious National Award

‘Islamist fundamentalists in Bangladesh a threat to northeast India’

RELATED

NEADS, Change Alliance Partner to Strengthen Climate-Resilient Livelihoods in Assam

Indigenous Peoples’ Group Marks Foundation Day in Mariani

People’s consultation on agroecology, climate adaptation concludes in Jorhat

USTM concludes workshop on academic writing and scholarly publishing

‘Grit & Glory’ released in Guwahati, highlights RSS work in Northeast
