

Office of the Media Coordinator Jamia Millia Islamia

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Press Release

"Nano materials can help degrade deadly antibiotics contained in packaged drinking water" – renowned U.S. based nano expert Prof. Ramanujachary at Jamia Millia Islamia; thanks GoI for introducing innovative GIAN programme

Highlighting the importance of nano materials for the future, Prof. K.V. Ramanujachary, Rowan University, New Jersey, USA said that they were an answer to many problems in the pharmaceutical and energy sector.

Prof. Ramanujachary is visiting Department of Chemistry, Jamia Millia Islamia to deliver the ongoing week-long GIAN programme on "Recent Developments in Nano Materials for Energy and Health Care Applications" from December 19-24, 2016 under the aegis of MHRD's flagship programme- Global Initiative for Academic Networks (GIAN) in Higher Education.

Inaugurating the programme, Prof Talat Ahmad, Vice Chancellor, JMI said that he was happy to note that Jamia had been doing very well in terms of bagging GIAN courses, it being the 25th in the university. "Nano science is one of the leading sciences in the world with implications for several fileds like those of energy, drugs, instrumentation and the like". He hoped that the programme would excite young minds and encourage exchange between Rowan University and JMI.

An eminent expert in the field of Nanomaterials, Magnetism, Energy and Health care, Prof. Ramanujachary said that over the years a lot of drugs were banned because of their toxic impact but reducing their size would negate their impact.

Giving the examples of cases of mobile phone batteries exploding, Prof. Ramanujachary added that the issue could be solved by using nano materials.

"The bottled water that we consume may contain deadly antibiotics. We need to use nano materials to degrade these antibiotics and make the packaged water safer", he said.

Prof. Ramanujachary congratulated the Government of India for coming up with an innovative and futuristic programme like GIAN throught which Indian scholars were being exposed to the best of international faculty and research.

Prof. Ashok K. Ganguly, Director, Institute of Nano Science and Technology (INST) Mohali, the Guest of Honour for the programme too praised the vision behind the conceptualisation of the GIAN programmes by the govt., and said that India with a large population under 30 years of age had the potential to become a powerful country like China. He said that India

universities must work harder to increase their ranking and improve their research focus otherwise "we will be giving degrees and not doing Science."

A series of 10 lectures will be delivered by Prof. Ramanujachary under the GIAN programme at JMI. The primary objectives of the course are to--- expose the participants to the concept of nano materials; inform them about the importance of particle dimensions on the structural, textural, physical and chemical properties; to provide participants with an understanding of magnetism at nano scale and its implications in medicinal applications and to train and enhance the knowledge of participants in the area of water splitting by using nano-sized catalysts as electrodes.

The course will also provide exposure to practical issues and problems associated with the use of nano materials for drug delivery and their healing efficiency for cancer.

Dr. Tokeer Ahmad, Assistant Professor, Department of Chemistry and Course Coordinator of the programme gave away the vote of thanks.

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