

## Programme Schedule

### Value Added Workshop

# Nano Era: Nanotechnology for Global Sustainability

7<sup>th</sup> – 11<sup>th</sup> June 2021

Day-1 07.06.2021 (Monday) Link: <https://amityuni.live/1849824940>

**Theme: Nanomaterials in crops and food**

Time	Event
<b>Inaugural Session</b>	
10:00 AM – 10:05 AM	Lighting of lamp and Saraswati Vandana Welcome address by Prof. Arpita Bhattacharya, Professor, Amity Institute of Nanotechnology, AUUP
10:05 AM – 10:10 AM	Opening remarks by Prof. O. P. Sinha, Director, Amity Institute of Nanotechnology, AUUP
10:10 AM – 10:25 AM	Address by Prof. Balvinder Shukla, Vice Chancellor, Amity University Uttar Pradesh (AUUP)
10:25 AM – 10:30 AM	Address by Prof. Sunita Rattan, Dean Science & Technology, Amity University Uttar Pradesh
10:30 AM – 10:35 AM	Vote of thanks by Dr. Sandip Chakrabarti, Assoc. Professor, Amity Institute of Nanotechnology, AUUP
<b>Technical Session</b>	
10:45 AM – 11:45 AM	Dr. H. Bohidar, JNU, Delhi <i>Digital Waste to Nano-fertilizer: Mitigation of Ecotoxicity and Prospects of Sustainable Agriculture</i>
11:45 AM – 12:45 PM	Dr. Irani Mukherjee, IARI, New Delhi <i>Nanotechnology and paradigm shift in crop protection, use, safety and delivery</i>
12:45 PM – 1:45 PM	Dr. Pubali Dhar, University of Calcutta <i>Nanoemulsion-based technologies for delivering natural plant-based antimicrobials</i>
1:45 PM – 2:30 PM	Lunch Break
2:30 PM – 3:30 PM	Dr. Biplab Sarkar, ICAR, Ranchi <i>Nanotechnology for next generation aquaculture</i>
3:30 PM – 4:30 PM	Dr. Mahua Ghosh, University of Calcutta <i>The application of nanotechnology in the food delivery system</i>
4:30 PM – 5:30 PM	Dr. Sonu Gandhi, NIAB, Hyderabad <i>Point of Care Diagnostics: a platform for rapid detection</i>
5:30 PM – 6:00 PM	Summary & Assessment

Day-2 08.06.2021 (Tuesday) Link: <https://amityuni.live/1843992302>

**Theme: Nanotechnology in biomedical devices and therapeutics**

Time	Event
10:00AM- 11:00AM	Dr. B.D. Malhotra, Delhi Technical University, Delhi <i>Nanomaterial based biosensor for cancer detection</i>
11:00AM – 12:00 PM	Dr SP Singh, NPL, New Delhi <i>Graphene Oxide: A unique multifunctional material for biomedical applications</i>
12:00 PM-1:00 PM	Dr. Pratima Solanki, JNU Delhi <i>Nanomaterial based biomedical devices</i>
1:00 PM – 2:00 PM	Lunch Break
2:00 PM- 3:00 PM	Dr. Surajit Karmakar, INST, Mohali <i>Evaluation of melatonin nanotherapy in preclinical disease models</i>
3:00 PM – 4:00 PM	Dr. Indrajit Roy, Delhi University <i>Functional nanomaterials in light-activated biomedical applications</i>
4:00 PM – 5:00 PM	Dr. Subhasree Roy Choudhury, INST, Mohali <i>Epigenetic regulation based cancer nanotherapy</i>
5:00 PM- 5:30 PM	Summary & Assessment

Day-3 09.06.2021(Wednesday) Link: <https://amityuni.live/1849519937>

**Theme: Nanotechnology in Electronics & Energy Sector**

Time	Event
10:00AM-11:00AM	Dr Ajit Mahapatro, Delhi University <i>Utilization of Nanotechnology in nanoelectronics. Biosensors and thermoelectrics</i>
11:00AM- 12:00 PM	Dr Ashis K Sen, IIT, Madras <i>Microfluidics-based lab on chip devices</i>
12:00 PM – 1:00 PM	Dr. D.S. Mehta, IIT Delhi <i>Optical Nanoscopy: A super-resolution imaging technique for nano size objects and living cells</i>
1:00 PM – 2:00 PM	Lunch Break
2:00 PM – 3:00 PM	Dr. Sasanka Deka, Delhi University <i>Usefulness of nanostructured materials in energy conversion and storage</i>
3:00 PM – 4:00 PM	Dr. Bipin Gupta, NPL, New Delhi <i>Conceptual Understanding and state-of-the-art of Nanomaterials for Emerging Nanotechnology</i>
4:00 PM – 5:00 PM	Dr. Manish Hooda, SCL Chandigarh <i>Technology Trend in Semiconductors</i>
5:00 PM – 5:30 PM	Summary & Assessment

Day-4 10.06.2021(Thursday) Link: <https://amityuni.live/1843503318>

**Theme: Low dimensional nanomaterials & Coating**

Time	Event
10:00AM- 11:00AM	Dr. Chandra Sekhar Rout, Jain University, Bangalore <i>Supercapacitor Applications of Tenable Low Dimensional Materials</i>
11:00AM – 12:00 PM	Dr Somnath Roy, IIT, Madras <i>Copper oxide nano- and hierarchical structures</i>
12:00 PM – 1:00 PM	Mr. Tapan Dhar, Berger Paints <i>Application of Nano materials for the coatings industry</i>
1:00 PM - 1: 45 PM	Lunch Break
1:45 PM - 2:45 PM	Dr. Ujjal Kumar Gautam, IISER Mohali <i>Breathing carbon quantum dots: a new beginning</i>
2:45 PM - 3:45 PM	Dr. Nonappa, Tampere University, Finland <i>Self-assembly of atomically precise gold nanoparticles</i>
3:45 PM - 4:45 PM	Dr. Manish Kumar, JNU, Delhi <i>Magnetic 2D van der Waals materials</i>
4:45 PM - 5:45 PM	Dr. Sandeep Srivastava, Central Institute of Technology, Kokrajhar <i>Nanostructured magnetic materials for Hard Disk Drive Applications</i>
5:45 PM – 6:15 PM	Summary & Assessment

Day-5 11.06.2021(Friday) Link: <https://amityuni.live/1846283643>

**Theme: Nanotechnology in Environment**

Time	Event
10:00AM- 11:00AM	Dr. Manika Khanuja, Jamia Milia Islamia University, Delhi <i>Sustainable solutions in energy and environment</i>
11:00AM – 12:00 PM	Dr. Alka Upadhyay, WEES Engg. Solutions Pvt. Ltd., Udaipur <i>Integrated water resources management and environment</i>
12:00 PM – 1:00 PM	Dr. Balamuragan Mani, Seoul National University <i>Electrochemical CO<sub>2</sub> Reduction Reactions Catalysed by Hybrid and Single-Atom-Catalysts</i>
1:00 PM - 2:00 PM	Lunch Break
2:00 PM – 3:00 PM	Dr. Kalawati Saini, Miranda House, Delhi University <i>Experimental demonstration of degradation of dyes by using innovative Photocatalytic Reactor.</i>

3:00 PM - 4:00 PM	Dr. Kashyap Dubey, JNU, Delhi <i>Strategies for treatment of hospital wastewater using integrated technology</i>
4:00 PM - 4:30 PM	Summary & Assessment
4:30 PM - 5:00 PM	Concluding Ceremony  Vote of Thanks by Dr. Ranu Nayak, Assoc. Professor, Amity Inst of Nanotechnology, AUUP

### Registration Details:

The participants will have to register online to receive e- certificate of participation on successful completion of the programme.

Registration Link: <https://forms.office.com/r/HJJNdxYQMr>

### Link to attend the workshop:

7<sup>th</sup> June 2021 – <https://amityuni.live/1849824940>

8<sup>th</sup> June 2021 – <https://amityuni.live/1843992302>

9<sup>th</sup> June 2021 – <https://amityuni.live/1849519937>

10<sup>th</sup> June 2021 – <https://amityuni.live/1843503318>

11<sup>th</sup> June 2021 – <https://amityuni.live/1846283643>

### Rules for e-Certification:

1. Registration is compulsory for the participants.
2. Overall Minimum 90% attendance is mandatory for e-certificate.
3. All the self- assessment activities to be attempted and submitted for evaluation.

Note: Only e-certificates will be awarded and send through respective e-mails.

### Program Coordinators:

Prof. Arpita Bhattacharya <a href="mailto:abhattacharya@amity.edu">abhattacharya@amity.edu</a>	Dr. Sandip Chakrabarti <a href="mailto:schakrabarti@amity.edu">schakrabarti@amity.edu</a>	Dr. Ranu Nayak <a href="mailto:rnayak@amity.edu">rnayak@amity.edu</a>
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### Program Director:

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Actg. Director,

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