

Organized By:



Department of Science & Technology
Govt. of India

In Association With:



DST-STUTI Training Program on Developing Skills And Knowledge For

NANOTECHNOLOGY IN DRUG DELIVERY

23rd – 29th Dec 2022 | DPSRU, New Delhi

Chief Patron



Prof. Ramesh K Goyal
Vice Chancellor, DPSRU

Under Scheme of
Synergistic Training
Program Utilizing the
Scientific and
Technological
Infrastructure (STUTI)

An Initiative By
Department of Science
and Technology,
Government
of India

Chief Guest



Prof. M. Afshar Alam
Vice Chancellor, Jamia Hamdard

Eligibility

PG/ Ph.D. Scholars,
Post-Docs, RA fellows,
Early Career Faculty



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Invited Speakers



Prof. Sukhinder Cheema
Memorial University of
Newfoundland, Canada



Prof. B.S. Bhoop
UIPS, Panjab University,
Chandigarh, India



Prof. Farhan J. Ahmad
Jamia Hamdard,
New Delhi, India



Dr. Saurabh Arora
Arbro Pharmaceuticals
Auriga Research



Dr. Rishi Gupta
Application Specialist,
Anton Paar

Max **30 Participants** will be selected based on screening of applicants whose area of research matches with the theme of this program. The confirmation will be communicated on or before 5/12/2022. Local Hospitality (Accommodation & Meal) will be provided.

Last Date of Registration

25 Nov. 2022



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CHAIRPERSONS



Prof. P.K Sahoo
Director, DIPSAR



Prof. Harvinder Popli
Director, SPS



Prof. Geeta Aggarwal
Dean, Academics



Prof. Rajiv Tonk
Dean, Student Welfare



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DST-STUTI PMU Coordinator



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Coordinator, CAFT



Prof. Deepti Pandita
Coordinator, CAFT

Coordinators



Dr. Pooja M. Raj
Dept. of Pharmaceutics



Dr. Devesh Tewari
Dept. of Pharmacognosy & Phytochemistry



Dr. Anshul
Dept. of Pharmaceutics



Mr. Gaurav
Dept. of Pharmaceutics

Co-Coordinators

○ Dr. Meenakshi K. Chauhan

○ Dr. Sushma Talegaonkar

○ Dr. Madhu Gupta

○ Dr. Amanpreet Kaur

○ Dr. Sumit

○ Dr. Dalapathi Gugulothu

○ Dr. Lalit Kumar

○ Dr. Atul Jain

○ Dr. Beauty Behera

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WHO SHOULD ATTEND?

The training is organized to enhance the practical skills of Post Graduate Students, Research Scholars, Faculty Members from Universities/Colleges, Scientists, and Post-Doctoral Researchers who are working in multidisciplinary/ transdisciplinary and translational research in various organizations.

Eligibility:

- Person of Indian Origin
- Minimum qualification should be Post Graduate (Pharmacy/ Science)
- Faculty Members/ Scientists / Post-Docs / PhD Scholars / PG Students/ Industry person (R&D)



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WHY SHOULD YOU ATTEND?

- Gain hands-on experience of research through latest S&T equipment and facilities.
- Design formulations by selecting appropriate equipment for the various experiments.
- Connect with the R&D Organizations/ Universities/ Start-ups/ MSMEs involved in R&D.

COST OF THE PROGRAM

- This training is sponsored by DST STUTI program and registration is **FREE**.
- For domestic travel of participants and faculty, the reimbursement for **AC train ticket** or **Deluxe Bus** (only for outstation candidates/ faculty) will be provided as per norms.
- Depending upon the availability in the hostel/guest house or nearby hotels, accommodation would be provided on sharing basis.
- Accommodation request should be made at least 10 days before the commencement of the program.**

PROGRAM OBJECTIVES:

- To imbibe skills for development and evaluation of nano drug delivery systems.
- Hands on training on nanoformulation processing equipments such as high pressure homogenizer, probe sonication, extrusion, spray drying etc.
- Hands on training on sophisticated analytical equipments such as HPLC, HPTLC, AAS and GC-MS.
- Hands on training on formulation optimization software and analytical software.

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TENTATIVE PROGRAM:

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09.30 - 10.00 AM	Delegate Registration
10.00 - 11.15 AM	Inaugural Session & Keynote
11.15 - 11.45 AM	High Tea

DAY 1

Time	Training Session
11.45 - 01.30 PM	Lecture 1: Design approach for development of nanoformulations
01.30 - 02.30 PM	Lunch Break
02.30 - 05.00 PM	Lecture 2: QbD software application and demonstration

DAY 2

10.00 - 11.00 AM	Lecture 1: Scintigraphy in nanoformulation development & bio-fate
11.00 - 01.00 AM	Practical: Nanoparticle Processing Techniques
01.00 - 02.00 PM	Lunch Break
02.00 - 03.00 PM	Lecture 2: Developmental aspects of Nanoformulation- Case study
03.00 - 05.30 PM	Visit to Analytical / Production Facility of Arbro Pharmaceuticals

DAY 3

EDUCATIONAL TOUR

10.00 - 11.00 AM	Lecture 1: Inorganic nanoparticles as drug delivery systems
11.00 - 01.00 AM	Practical: Development of Inorganic Nanoparticles
01.00 - 02.00 PM	Lunch Break
02.00 - 03.00 PM	Lecture 2: Nanoemulsions as drug delivery systems
03.00 - 05.30 PM	Visit to DSIR-CRTDH, DST-FIST (Pharmaceutics) Facility, DPSRU

DAY 4

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DAY 5

Time	Session
10.00 - 11.00 AM	Lecture 1: Nanocarriers as delivery vehicles
11.00 - 01.00 PM	Practical: Particle sizing & zeta potential estimations
01.00 - 02.00 PM	Lunch Break
02.00 - 03.00 PM	Lecture 2: Rheological aspects of Nanoformulations
03.00 - 05.30 PM	Practical: Rheology determinations & Visit to DIIF

DAY 6

10.00 - 11.00 AM	Lecture 1: Herbal Nanoformulations
11.00 - 01.00 AM	Hands-on training on HPLC & GC-MS
01.00 - 02.00 PM	Lunch Break
02.00 - 03.00 PM	Lecture 2: Nano scaffolds as regenerative medicines
03.00 - 05.30 PM	Practical: 3D printing

DAY 7

10.00 - 12.00 PM	Presentation by Attendees
12:00 - 01:00 PM	Lecture 1: Analytical Tools in Assay of Nanoformulations
01.00 - 02.00 AM	Lunch Break
02.00 - 03.00 PM	Lecture 2: OMICS in development of nutraceutical
03.00 - 04.00 PM	Visit to Centre of Precision Medicine, DPSRU
04.00 PM onwards	Valedictory & Certificate Distribution

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ABOUT R&D Infrastructure



Equipment 1:
Preclinical In vivo Imaging
Make: Perkin Elmer

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Equipment 2:
Particle Size Analyzer
Make: Anton Paar



Equipment 3:
GC MS/MS
Make: ThermoFisher Scientific



Equipment 4:
HPLC
Make: Shimadzu



Equipment 5:
Atomic Absorption Spectroscopy
Make: Analytika Jena

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ABOUT R&D Infrastructure



Equipment 6:
Rheometer
Make: Anton Paar

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Equipment 7:
Spray Dryer
Make: Buchi



Equipment 8:
High Pressure Homogenizer
Make: GEA Niro Soavi



Equipment 9:
Probe Sonicator
Make: Sonics



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ABOUT THE UNIVERSITY: Delhi Pharmaceutical Sciences & Research University, (DPSRU) is the first Pharmacy University in India and third in the world, established by Act 07 of 2008 State legislature of Delhi and functional from 2015. It is 100% grant-in-aid State Government University recognized under 2f and Section 22 of the UGC. The University has the legacy of 57 years starting with the D. Pharm. in polytechnic in 1964 to College of Pharmacy in 1972 and then the institute Delhi Institute of Pharmaceutical Sciences and Research (DIPSAR) in 2004 that got converted into DPSRU as it stands now.

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It has the campus spread over an area of 10.36 acres. Currently it has around 2600 students with 90 faculty and 136 supporting staff members, offering over 4 certificate, 3 diploma, 7 undergraduate, 24 postgraduate, and 8 doctoral programs. Apart from this, the University is planning to start two new courses i.e. B.Sc. (Nursing) and B.Sc. in Biomedical Sciences. The University has the facilities to promote comprehensive teaching and learning and conduct research to cater to various sectors of industry. In addition to the strong academic programs, as in the name of the University, it has a strong research and innovation footing. There are 6 faculty members currently in the list of top 2% scientists in the world published by Stanford University. In a recent list published in PLOS Biology, 12 faculty members of DPSRU are in the list of top scientists of the world (~ 20,000). The faculty publishes a large number of quality papers in the high impact factor journals. In addition to publications of research papers and books, and filing of the patents, there is a focus for the innovation and incubation for the entrepreneurship development. The University had nurtured 18 startups with several products in the market. Notable being 'Ezypro, a nutraceutical drink to provide essential amino acids and minerals with Ahlnich for the critical care patients and the 'CoroQuil-Zn' with Remedium Therapeutics, perhaps the first in the world herbal drug targeting the ACE-2, the main culprit for complications of COVID-19 patients.

DPSRU thrives to create the state-of-the-art infrastructure research facilities. Besides unique Ocular Pharmacology lab, Clinical research, Herbal Technology and Nanotechnology Centers, it has come up with BioNest Bioincubator Center of DBT-BIRAC, Precision Pharmacy & Medicine Center of DKDF, Govt. of Delhi and Centre for Advanced Formulation Technologies of DSIR-CRTDH, Govt. of India. This has enabled the University to establish linkages with industries for the promotion of science and currently, the University has more than 35 MoUs signed with National Government institutions and Pharma Industry. The University has developed collaborations and tie-ups with countries like the UK, West Indies, Portugal, Philippines, Malaysia, Thailand and China. H'ble Vice Chancellor has a distinction of being the second only non-Russian conferred with the Honorary Professorship at the Stavropol State Medical University of Russia and the Distinguished Visiting Professorship at the UCSI University of Kula Lumpur, Malaysia.

With the comprehensive, multidisciplinary pedagogy of learning and research having holistic approach in pharmaceutical and allied health sciences students are being most benefitted in terms of campus placements and to excel in the competitive world. In the current year, 70 students qualified in the national competitive examination GPAT, with the 1st Rank and 4th All India Ranks grabbed by our students. We have now 123 Ph.D. students and one third of the Govt scholarships through agencies like ICMR, DST and CSIR and an equal number having research fellowships from DRDO, THISTI, IPC and pharma industries. DPSRU aims to cultivate the spirit of embracing internationalism, diversity and competitiveness amongst students, such that novel and creative ideas are harnessed, leading to unique discoveries and inventions for the advantage of society at large.

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