

REGISTRATION FEE

• Foreign Participants	:	US\$ 200
• Students* (UG, PG, PhD)	:	Rs. 1000
• Faculty / Scientist	:	Rs. 2000
• Industry Members	:	Rs. 5000
• Fee for SC/ST Students	:	Rs. 500

Note- Registration fee includes only instructional materials and experimental facility not for accommodation.

REGISTRATION WORK FLOW

MHRD- GIAN is a global program, participants are required to register online at GIAN portal : <http://www.gian.iitkgp.ac.in>. Follow instructions at "Courses Registration Portal" and submit login details with brief academic details. Rs. 500 has to be paid online for registration at GIAN portal. Participants then need to select course **Substances of Abuse: Pre and Postnatal Exposure: Pharmacological Effects and Analytical Methods of Detection** from the list at "Course Registration". Selected participants will be informed by e-mail and they need to submit the "Course Registration Fee" by Demand Draft in the favor of "The Registrar, Dr. Harisingh Gour Vishwavidyalaya, Sagar.

ACCOMMODATION

Accommodation, if required could be arranged for the participants on payment basis subject to availability. For accommodation booking participant may contact the course coordinator.

PATRON

Prof. R. P. Tiwari

Vice- Chancellor

Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh (India)
(A Central University)

PROGRAM ADVISORS

Prof. R. A. Singh

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COURSE COORDINATOR

Dr. Abhilasha Durgbanshi

Department of Chemistry

Dr. Harisingh Gour Vishwavidyalaya, Sagar, India.

Contact: 9407504050

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GIAN Portal: <http://www.gian.iitkgp.ac.in>

University web: <http://www.dhsgsu.ac.in>

HOW TO REACH

Sagar is a Divisional head quarter, well connected by rail and all seasons roads. Sagar railway station is mentioned as Saugor in Railway time table. Saugor station is located on Bina-Katni section of West central Railway. It is directly connected by train to Bina Jn. (75 km), Jabalpur (279 km) and Jhansi (200km). It has direct train connectivity for Delhi, Mumbai, Kolkata. Sagar is connected with all season excellent roads with Bhopal (190 km), Jabalpur (185 km), Jhansi (200 km) and Bina (75 km). Nearest airport- Bhopal (200 km).



Dr. Harisingh Gour Vishwavidyalaya
(A Central University)
Sagar, Madhya Pradesh (India)



GLOBAL INITIATIVE OF ACADEMIC NETWORKS



Ministry of Human Resource Development
Government of India

A Course Under
Global Initiative of Academic Networks
Ministry of Human Resource Development
Government of India
on

Substances of Abuse: Pre and Postnatal Exposure: Pharmacological Effects and Analytical Methods of Detection

5th – 11th September, 2016

By

Expert Foreign Faculty

Dr. Simona Pichini

National Institute of Health,
Rome, Italy



Organized by

Department of Chemistry

Dr. Harisingh Gour Central University
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SCOPE OF THE PROGRAM

MHRD has approved a new program titled Global Initiative of Academic Networks (GIAN) in higher education aimed at tapping the talent pool of scientists and entrepreneurs, Internationally to encourage their engagement with the institute of higher education in India so as to augment the country's existing academic resource, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence. In order to garner the best international experience into our system of education, enable interaction of students and faculty with the best academic and industry expert from all over the world and share their experience and expertise to motivate people to work on Indian problems.

A one week course on "Substances of Abuse: Pre and Postnatal Exposure: Pharmacological Effects and Analytical Methods of Detection" is organized at University. This course will have expert foreign faculty Dr. Simona Pichini from Italy. The program will cover sharing of knowledge among students, faculties and researchers.

ABOUT THE COURSE

Internationally acclaimed researcher and practitioner with proven knowledge, experience in the field of analytical and clinical toxicology due to drug of abuse will deliver lectures, exposing participants to the fundamentals of pharmacology of substances of abuse practices, enhancing the capability of the participants to identify, control and handle alternative biological matrices, building in confidence and capability amongst the participants in the application of the most sensible and specific chromatography methodologies, providing exposure to practical problems and their solutions, through case studies from real clinical scenarios. The main emphasis will be on child and mother health.

ABOUT THE FOREIGN FACULTY



A Doctor in Pharmacy and European PhD in Clinical Pharmacology she works as a senior investigator at the Drug Dependence and Doping Unit, National Observatory on Tobacco, Alcohol and Drugs of Abuse, National Institute of Health, (Istituto Superiore di Sanità-ISS), Rome, Italy. Dr. Pichini is also the Supervisor of National Quit Lines on Tobacco Smoking, Alcohol and Doping, Incharge of analytical laboratory on drugs and doping agents in non-conventional matrices related to clinical and forensic pharmaco toxicology. She is also a member of Italian National counterpart on alcohol policy at World Health Organization, Anti-doping Inspector of

DCO at National sports competitions and Member of the Official Board of the Society of Hair Testing. She is author of over 250 articles published in inter-national scientific journals with high impact factor and Member of the Editorial Board to many scientific journals.

WHO CAN PARTICIPATE

Academician and researcher with scientific interest in drug of abuse, mother and child health i.e. biologists, Chemists, toxicologists, pharmacologist, forensic experts are welcome to participate in the course. Students at the level of graduate, post graduate, doctoral and post doctoral fellows are also encouraged to participate in the program. Industry members are particularly stimulated to participate with a vision to move further in establishing platform for analytical methods used to detect drug of abuse.

COURSE SCHEDULE

I 05 SEPTEMBER 2016 (MONDAY)

- Lecture 1 : General idea on common drug of abuse with special reference to mother and baby.
- Lecture 2 : Pharmacology of drugs, Drug receptors, Drugs and their effects.
- Lecture 3 : Drug tolerance, Drug dependence, Addiction.

II 06 SEPTEMBER 2016 (TUESDAY)

- Lecture 4 : Introduction to Chromatography, Theoretical Aspect of Chromatography.
- Lecture 5 : Measurement of Analyte Retention, Analytical Aspect of Planar Chromatography.
- Lecture 6 : Thin Layer Chromatography, Paper Chromatography, High Performance Thin Layer Chromatography.
Laboratory visit

III 07 SEPTEMBER 2016 (WEDNESDAY)

- Lecture 7 : Amphetamine, Methamphetamine and Related Drugs, Designer Drugs Derived from Amphetamines, Overdoses and Fatalities from Amphetamines and Related Drugs.
- Lecture 8 : Barbiturates & Benzodiazepines.
- Lecture 9 : Gas Chromatography, Instrumentation, Columns & Column Packing, Derivatization for GC.

Experiment

IV 08 SEPTEMBER 2016 (THURSDAY)

- Lecture 10 : Alcoholic Beverages, Different types of alcoholic drink, Effect of alcohol on Body.
- Lecture 11 : High Performance Liquid Chromatography-I, General consideration, Column and column packings.

Tutorial

V 09 SEPTEMBER 2016 (FRIDAY)

- Lecture 12 : Cannabinoids, Metabolism of THC, THC Overdose
 - Lecture 13 : Opiates and synthetic opiates, Pharmacology of Opiates
 - Lecture 14 : Detection in HPLC, LC-Tandem MS
- Experiment

VI 10 SEPTEMBER 2016 (SATURDAY)

- Lecture 15 : Cocaine, Pharmacology of Cocaine, Abuse of Cocaine and Alcohol
- Lecture 16 : Fatality from Cocaine and Cocaethylene

Troubleshooting
Evaluation of the participants

VII 11 SEPTEMBER 2016 (SUNDAY)

Validictory function