

Report of Workshop on
Molecular Docking, Fragment-based Drug Design and Post
Docking Analysis

Title: Molecular Docking, Fragment-based Drug Design and Post Docking Analysis

Type of activity: Web seminar

Date/ duration of activity: 04 August 2017, 1 hour.

Venue: Bioinformatics Infrastructure Facility (BIF), Jamia Hamdard

Number of Participants: 13

Information of the Project Staff:

Organizing secretary: Dr. Munazzah Tasleem, Research Associate, BIF-JH

Coordinator: Dr. Mymoona Akhter, Dy-coordinator, BIF-JH

Chairman: Prof. Shakir Ali, Coordinator, BIF-JH

Speaker: Dr. Girinath Pillai, CEO & Director, Zastra Innovations Pvt. Ltd

Objectives:

To understand molecular docking technique and its role in fragment based drug design.

To understand the importance of post docking analysis through QSAR study.

Target groups:

Research scholars and Faculty, working in the area of molecular docking and drug discovery.

Description of the method:

Topic of the Web-seminar, time, date and venue were emailed to faculty and research scholars of Jamia Hamdard. Interested participants were requested to send their consent to Dr. Munazzah Tasleem, RA, BIF.

20 participants were selected for attending the web-seminar.

Speakers and microphone were arranged through Department of Computer Science, JH.

13 participants attended the seminar, and actively participated in asking question to the speaker.

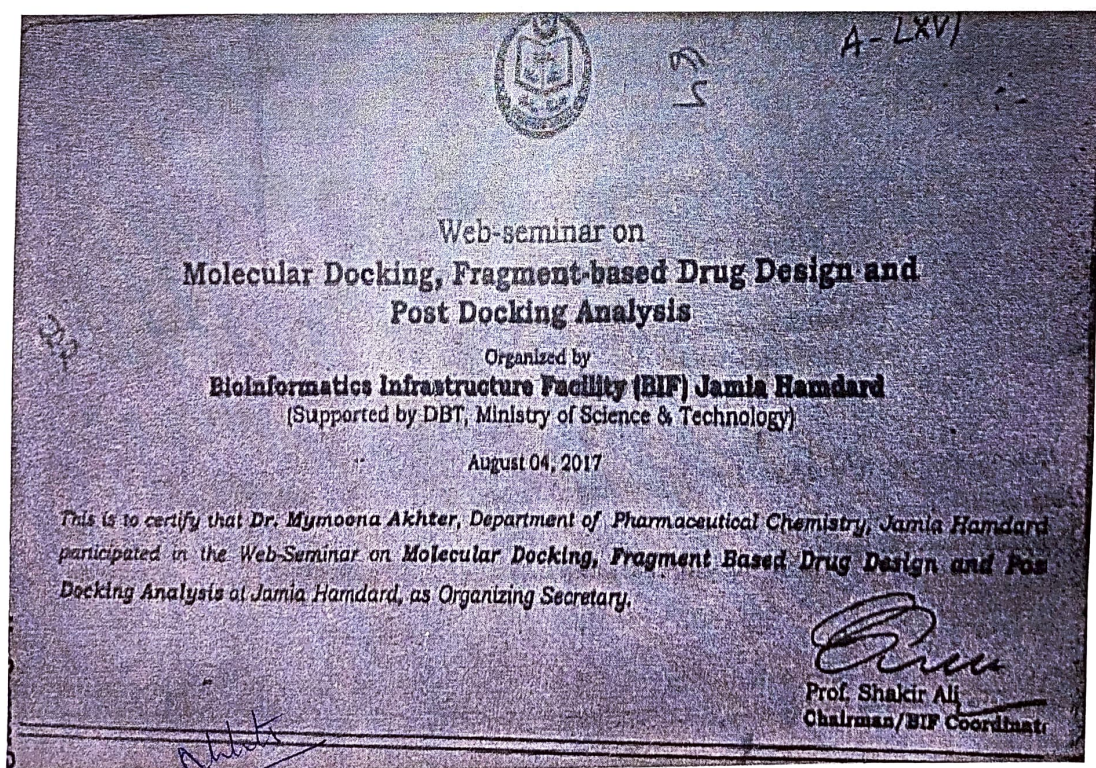
Description of the activity:

Web-seminar was started with brief description of molecular docking, virtual screening and available software FlexX from Zastra. Two methods of Computer Aided Drug Design/discovery CADD- Structure based and Ligand based drug design/discovery were discussed. To prioritize the ligands in virtual screening, a scoring function is used by the software StarDrop from Zastra, called HYDE. Parameters for optimization of the drug discovery procedure were illustrated. Methods for designing compounds with improved

Mymoona Akhter
Dr. Coordinator
BIF

balance of properties were also explained to predict the properties of new compounds before synthesis and testing. This method would assist in identifying the regions in the compound exerting biggest influence on properties. Multi parameter optimization approach for identifying chemistry of the compound with an optimal balance of properties such as potency, safety, solubility, absorption and metabolic activity was discussed. The Web-seminar was concluded by brief description of the software useful in drug designing/discovery and QSAR study such as **torch3D** - used for understanding and applying 3D ligand based SAR to identify and optimise novel actives, **Nova** - it generates and prioritize new, relevant compound ideas, **BIOSTER** -it explores more than 26,000 predated transformations with the Nova module, **P450** -QM simulations to identify sites of metabolism and liability for major P450s, **Derek** - knowledge based prediction of more than 40 toxicity endpoints.

The **SeeSAR** software was elaborately demonstrated. SeeSAR is a software tool for interactive, visual compound prioritization as well as compound evolution. Structure-based design supports a multi-parameter optimization to maximize the likelihood of success, rather than affinity alone. SeeSAR provides the relevant parameters in combination with real-time visual computer assistance in 3D. SeeSAR helps reduce project costs, by guiding the user step by step to improved designs, by providing instantaneous results through simplified report generation. The Zastra team provided us the licence agreement for evaluation purpose for the StarDrop software.



Report of Workshop/Hands-on training on Recent Trends in Computational Biology

Title: Workshop/Hands-on training on Recent Trends in Computational Biology.

Type of activity: Web seminar

Date: 15 September 2017.

Venue: Auditorium SPER and Bioinformatics Infrastructure Facility (BIF), Jamia Hamdard

Number of Participants: 30

Information of the Project Staff:

Organizing secretary: Dr. Munazzah Tasleem, Research Associate, BIF-JH

Coordinator: Dr. Mymona Akhter, Dy-coordinator, BIF-JH

Chairman: Prof. Shakir Ali, Coordinator, BIF-JH

Speaker: Dr. Abhinav Kaushik, Research Scientist at Stanford University, Palo Alto, California, United States

Tutor for hands on: Dr. Munazzah Tasleem, Research Associate, BIF-JH

Objectives:

To understand molecular docking technique and its role in fragment based drug design.

To understand the importance of post docking analysis through QSAR study.

Target groups:

Research scholars and Faculty, working in the area of molecular docking and drug discovery.

Description of the method:

Topic of the Workshop/Hands-on training, time, date and venue were emailed to faculty and research scholars of Jamia Hamdard. And other universities. Interested participants were requested to send their consent to Dr. Munazzah Tasleem, RA, BIF.

30 participants were selected for attending the web-seminar.

30 participants attended the seminar, and actively participated in asking question to the speaker.

Description of the activity:

The program started with brief description on recent trends in Computational Biology and other molecular modelling techniques. This was followed by lectures on various tools used in computational biology, systems biology and Next Generation Sequencing. The speaker discussed computational tools to measure rewiring within gene co-expression and its corresponding regulatory networks in order to identify and prioritize altered pathways which may or may not be differentially regulated. We have developed Altered Pathway Analyser (APA), a microarray dataset analysis tool for identification and prioritization of altered pathways, including those which are differentially regulated by TFs, by quantifying rewired sub-network topology

In the afternoon hands on training on basic software's freely available on inter net (basic tools of molecular modelling like Cytoscape, David, etc) was carried out.

Mymona Akhter
Dy. Coordinator
BIF



Workshop-cum-Hands-on-Training
on
Recent Trends in Computational Bioinformatics

Organized by
Bioinformatics Infrastructure Facility (BIF) Jamia Hamdard
(Supported by DBT, Ministry of Science & Technology)

September 15, 2017

This is to certify that **Dr. Munazzah Tasleem**, Bioinformatics Infrastructure Facility, Jamia Hamdard, participated in the Workshop-cum-Hands-on-Training on **Recent Trends in Computational Bioinformatics** at Jamia Hamdard, as Organizing Secretary.

Prof. Shakir Ali
Chairman

WORKSHOP REPORT
USE of ICT in SUSTAINABLE DEVELOPMENT
(Sponsored by SERB-DST, GOVT. of INDIA)
3 – 4 OCTOBER, 2017

A workshop on Use of ICT in Sustainable development was held on Oct 3-4, 2017 at Jamia Hamdard was conducted successfully with an aim to sensitize people about the importance of sustainability in today's times. Especially, with meeting with UN SDG 2030. The workshop received an overwhelming response from participants all over India as well from Jamia Hamdard. A total of 100 participants registered for the event.

The event was held under the patronage of Prof. Dr. Seyed E. Hasnain, and the coordinators of the event were Prof. M. Afshar Alam, Dr. Parul Agarwal, and S.M. Idrees. The Chief Guest for the Inaugural function was Dr. Rajiv Sharma, Secretary, SERB-DST. The chief guest for the Valedictory function held on 4th Oct, 2017 was Ms. Sushma Yadav. The amount sanctioned for the event by SERB-DST was Rs, 5, 45, 000.

The list of esteemed speakers included

1. Mr. Parvez Haiyyat, ADG of BPR&D, Ministry of Home Affairs, Govt. of India.
2. Dr. Charru Malhotra, Associate Professor (E-Governance and ICT), IIPA.
3. Ms. Aanchal Mittal, Digital Empowerment Foundation.
4. Dr. Kiran Pandey, Programme Director, Information and Library Sciences, Centre for Science and Environment.
5. Mr. Paventhan, Additional Director, Bengaluru and Chennai office, ERNET.
6. Ms Arfa Khanum Sherwani, Rajya Sabha TV Anchor
7. Prof. M. N. Huda, Director, Bharati Vidyapeeth's Institute of Computer Applications and Management.


Prof. M. Afshar Alam
Head, Department of CSE

Workshop Schedule
Day 1 (3rd October 2017)

Title	Duration	Speaker
Workshop Inauguration	10:00am - 10:45am	
High Tea	10:45 am - 11:30am	
<u>Session 1</u>		
ICT and SDG's	11:30 am - 12:15am	Dr. Kiran Pandey Programme Director, Information and Library Sciences, Centre for Science and Environment
	12:15 am - 01:00pm	Prof. M.N.Hoda Director, BVICAM.
Lunch Break	01:00 pm - 2:00 pm	
<u>Session 2</u>		
ICT for Rural Market linkages and livelihood	02:00 pm – 2:45 pm	Ms. Aanchal Mittal Digital Empowerment Foundation
Emergent Technologies and SDG's - Challenges and Opportunities	02:45 pm – 03:30 pm	Dr. Charru Malhotra Associate Professor (E-Governance and ICT), IIPA.
High Tea	03:30 pm – 04:00 pm	
<u>Day 2 (4th October 2017)</u>		
Inaugural of the day by Hon'ble Vice Chancellor	10:00 am - 10:30 am	
<u>Session 3</u>		
How to effectively use tools of Mass Communication for good governance and sustainable development.	10:30 am – 11:45 am	Ms. Arfa Khanam Sherwani Rajya Sabha T.V. Anchor
Smart Cities.		Mr. Parvez Hayat ADG of BPR&D, Ministry of Home Affairs, Govt. of India.
High Tea	11:45 am -12 pm	
<u>Session 4</u>		
Internet of Things (IOT) approach to sustainable development	12 pm – 12:45 pm	Mr. Paventhan Additional Director, Bengaluru and Chennai office, ERNET.
Use of ICT in delivery of sanitation in Urban Informal Settlement	12:45 pm – 1:30 pm	Ms. Smita Kale Monitoring and Evaluation Manager, Shelter Associates, Pune.
Lunch Break	1:30 pm- 2:15 pm	
<u>Session 5</u>		
ICT in Sustainable Development	2:15 pm – 3:00 pm	Dr. Anjali Karol Mohan


Prof. M. Afshar Alam
 Head, Department of CSE

		Lead: Research and Policy, Indian Housing Federation, Bangalore
Valedictory	3:30 pm – 4:30 pm	
High Tea	4:30 pm – 5:00 pm	

DEPARTMENT OF CSE

Jamia Hamdard was established in the year 1989 by Hakeem Abdul Hameed, and at present it is one of the most progressive universities of Delhi which has been awarded 'A' grade by National Assessment and Accreditation Council (NAAC) of UGC.

Jamia Hamdard has excellent infrastructure in the form of buildings, library, computers and administrative backup that is essential for pursuing higher education and research.

The Department of CSE offers the following programmes:

1. Ph.D. (Computer Science & Engg.)
2. Ph.D. (Computer Science)
3. M.Tech. (Computer Science & Engg.)
4. M.Tech. (Computer Science & Engg.) Part Time
5. M.Tech. (Information Security & Cyber Forensics)
6. MCA
7. B.Tech (Computer Science & Engg.)
8. B.Tech (Electronics and Communication Engineering)
9. BCA/BSc (IT)

SERB - DST

The Government of India established SERB(Science and Engineering Research Board), a statutory body through an Act of Parliament, 2008. The prime objective of SERB is to support basic research in emerging areas of Science & Engineering. Under "Schemes and Programmes" it also assists in projects, Travel Grant, Grant for organizing Seminar/Symposia. SERB in addition promotes synergy between academic institutions, research and development laboratories and industry for promoting basic research in science and engineering. In addition to "Programmes in Partnership" it also recognizes extraordinary contribution of researchers by felicitating them with its "Awards and Scholarship Scheme". Under this scheme it offers JC Bose National Fellowship to scientists and engineers for their outstanding performance and contributions and RAMANUJAN Fellowship for brilliant scientists and engineers from all over the world to take up scientific research positions in India, especially those scientists who want to return to India from abroad.

THRUST AREA

1. ICT : A critical tool for sustainable future
2. Role of ICT in ensuring Environmental Sustainability.
3. ICT adoptions in various Sectors.
4. ICT and the Sustainable Development Goals.
5. Green Computing - Saving the Environment with intelligent use of Computing.
6. ICT : Role as a Catalyst.
7. Mobile industry's critical role in promoting, advancing and measuring the SD.
8. Need for R&D in ICT.
9. ICT for Computation.

ADDRESS FOR COMMUNICATION

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Hamdar Nagar, New Delhi - 110062

Convener
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Jamia Hamdard (Hamdard University)
Hamdar Nagar, New Delhi - 110062

Contact Email ID:
ict.workshop.jamiahamdard2017@gmail.com

For registration details, please refer to the website :
www.jamiahamdard.ac.in
www.jamiahamdard.edu

SERB - DST, Govt. of India Sponsored Workshop on Use of ICT in Sustainable Development

3rd-4th October, 2017



Organized By :
Department of CSE
School of Engineering
Sciences & Technology
Jamia Hamdard
New Delhi - 110062

VENUE :
CONVENTION CENTER,
JAMIA HAMDARD

ABOUT THE WORKSHOP

Sustainability is the study of how natural systems function, remain diverse and produce everything it needs for the ecology to remain in balance. Sustainable development has been a focus of international public policy since the Earth Summit in 1992. It identifies three core objectives for human development i.e. *economic growth, social inclusion and environmental sustainability*.

Information and Communication Technologies (ICTs) form the backbone of today's digital economy and have enormous potential to fast forward the progress on the Sustainable Development Goals (SDGs) and improve people's lives. We need to understand that ICT usage can decrease the greenhouse emissions drastically. The real time initiatives like Cloud computing, video conferencing smart livestock management tools that are a part of ICT can reduce carbon and methane emissions. These can only be achieved if participants understand the under- current of sustainable development. The objective is to sensitize the participants from academia, industry, policy makers about how increased use of ICT can revolutionize the future for sustainable development.

The ICT can accelerate the action on the SDGs by achieving following objectives:

- **By assessing the current state of broadband development.**
- **ICT can be a powerful means of implementing changes by introducing five ways in upgradation in social, public, innovative sectors.**
- **Increment in case studies illustrating the ICT support achieving SDGs.**
- **Analyzing the current SDG indicators.**
- **Recommending the highlighted sectors to leverage ICT effectively to achieve the SDGs by 2030.**

This workshop as a whole shall take a look at these issues by keeping in mind the benefits that each category of participant can reap. There is an urgent need for research to identify how decision makers use information and develop packages and applications based on modern technologies and discoveries in the areas of visualization, pattern recognition, and integration of different forms of information. Awareness has to be created at a local level which shall bring about changes at a global level as a whole.

ADVISORY COMMITTEE

Prof. (Dr.) Seyed Ehtesham Hasmain, (Chairman)
Vice Chancellor, Jamia Hamdard, New Delhi

Prof. Talat Ahmad
Vice Chancellor, JMI, New Delhi

Dr. (Ms.) Sushma Yadav
Member UGC, Govt. of India

Dr. Rajiv Sharma
Secretary(SERB), Govt. of India

Mr. S. S. Kohli
Scientist G, DST, Govt. of India

Mr. Chandra Bhushan
Deputy Director General, Centre for Science and Environment,
New Delhi

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Dean, SEST, Jamia Hamdard, New Delhi

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Jamia Hamdard, New Delhi

Prof. S.C. Gupta
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Prof. N. Parimala
JNU, New Delhi

Prof. M.N. Doja
JMI, New Delhi

Prof. P.S. Grover
Delhi University

Prof. M.N. Hoda
Director, BVICAM, New Delhi

Prof. S.A.M. Rizvi
JMI, New Delhi

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Dr. Parul Agarwal (Convener)

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Dr. Sameena Naaz
Dr. Ithiram Raza Khan
Mr. Jawed Ahmad
Dr. Harleen Kaur
Dr. Syed Imtiaz Hassan
Ms. Shabina Ghafir
Mr. Bhavya Alankar
Mr. Safdar Tanweer
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Ms. Taqdees Fatima



SERB - DST, Govt. of India



**Workshop
on**



**Use of ICT
in**

Sustainable Development

3rd-4th October 2017



Organized By

**Department of Computer Science & Engineering
School of Engineering Sciences & Technology**

**Jamia Hamdard
New Delhi - 110062**



**Organizing Secretary
Prof. M. Afshar Alam
9891971999**

**Convenor
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email : ict.workshop.jamiahamdard2017@gmail.com
Phone no. : 011-26059688 extn. 5855

VENUE : CONVENTION CENTER, JAMIA HAMDARD

The detailed information including registration form can be downloaded from University website: www.jamiahamdard.ac.in / www.jamiahamdard.edu



M. Afshar Alam
Prof. M. Afshar Alam
Head, Department of CSE

REPORT ON SEMINAR CUM WORKSHOP ON LIQUID BASED CYTOLOGY

Title- Exfoliative Liquid based Gynaecologic cytology


Date – 17 OCT 2017

Resource person- Dr Qazi Azher, USA

One day workshop on 'Exfoliative Liquid based Gynaecologic cytology' was held at Hamdard Institute of Medical Sciences & Research on 17 Oct 2017. It was organized by Dept of Pathology. A total of 50 participants from various reputed Medical colleges in Delhi NCR attended this workshop. The inaugural ceremony was held at 2 PM in LT1, HIMSAR. The meeting started with welcome address by Organizing Chairperson Prof Sujata Jetley. This was followed by blessings from Dean Prof M.Y.Kharadi who expressed his happiness at the conduction of workshop by Pathology dept on a very recent technique and emphasized on the importance of new technique of LBC. Vote of thanks was given by Organizing secretary of this workshop Dr Sabina Khan, Associate Prof, Dept of Pathology.

The workshop was conducted pre lunch by Dr Qazi S Azher, Associate Clinical Professor, Michigan State University, USA. In this two sets of Gynaecologic cytology slides were given to pathology residents for viewing followed by Power point presentation and discussion of these slides. It was followed by a talk on "Her2/neu an independent prognostic and predictive marker for breast cancer." which was much appreciated by residents and faculty alike.

This seminar cum workshop was a huge success with a a very positive feedback from all the participants of the workshop.



Dr Sabina Khan

Organizing Secretary

Hamdard Institute of Medical Sciences and Research
Jamia Hamdard, New Delhi-110062
Department of Pathology

SEMINAR *cum* WORKSHOP
on
EXFOLIATIVE LIQUID BASED GYNECOLOGIC CYTOLOGY
(17 October 2017)

PROGRAMME

Time	Events
9:00-9:10am	Floral Welcome of Dr Qazi S Azher, Associate Clinical Professor, Michigan State University, Lansing, MI, USA
9:10-10:30am	Interaction with Dean & Faculty of Dept of Pathology and Obstetrics & Gynecology Simultaneous viewing of Gynecology cytology slides by Pathology residents - First set
10:30-11:30am	Presentation by Dr Qazi S Azher - Normal and Abnormal morphology of various cervical lesions
11:30-12:30pm	Gynecology cytology slides viewing- Second set
12:30-1:00pm	Discussion on slides and Feedback from residents
1:00-2:00pm	Lunch
	Inauguration
2:00-2:05pm	Welcome address by Dr. Sujata Jetley, Organizing chairperson & HOD Pathology
2:05-2:10pm	Blessings by Dr. M Y Kharadi, Dean, HIMSR
2:10-2:20pm	Words of wisdom by Dr. G N Qazi, Director, HIMSR
2:20-2:30pm	Address by Dr. Qazi S Azher, Invited Guest faculty
	Invited Talk
2:30-3:30pm	Dr Qazi S Azher on 'Her-2/neu, An independent prognostic and predictive marker for breast cancer.'
3:30-3:35pm	Vote of Thanks by Dr. Sabina Khan, Organizing secretary
3:35pm	High Tea



**HAMDARD INSTITUTE OF MEDICAL SCIENCES & RESEARCH
& ASSOCIATED HAHC HOSPITAL**
JAMIA HAMDARD, NEW DELHI-110062



**SEMINAR CUM WORKSHOP
ON
EXFOLIATIVE LIQUID BASED GYNECOLOGIC CYTOLOGY**

Certificate Of Participation

This is to certify that

Participated as Delegate / Faculty in the
Seminar cum Workshop on Exfoliative Liquid Based Gynecologic Cytology

Organized by

Department of Pathology, HIMSR, Jamia Hamdard, New Delhi

held on 17th October 2017

Dr. SABINA KHAN
Organizing Secretary

Prof. SUJATA JETLEY
Organizing Chairperson

Prof. M. Y. KHARADI
Dean, HIMSR

WORKSHOP COORDINATOR



Areas of Interest:

Data Analytics, Big data Analysis, Applied Machine Learning, Intelligent Systems, Information and Communication Technology (ICT)

Dr. Harleen Kaur is a faculty member at the School of Engineering Sciences and Technology at Jamia Hamdard, New Delhi, India. She has recently worked as Research Fellow at United Nations University (UNU) in IIGH-International Centre for Excellence, Malaysia where she has conducted research on funded projects from South-East Asian Nations (SEAN). She is currently working on an Indo-Poland bilateral international project funded by the Ministry of Science and Technology, Govt. of India and the Ministry of Polish, Poland. In addition, she is working on a national project on intelligent big data analytics catalyzed and supported by the National Council for Science and Technology Communication (NCSTC), the Ministry of Science and Technology, Govt. of India. Her key research areas include data analytics, big data, applied machine learning and predictive modeling. She is the author of many publications in referred journals and also authored/edited several reputed books. She is a member of various international bodies and also a member of the editorial board of international journals on data analytics and machine learning. She is the recipient of Ambassador for Peace Award (UN Agency) and also active researcher duly funded by external agencies.


Prof. M. Afshar Alam
Head, Department of CSE



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	5.1.2 Data Analytics for Food, Nutrition and Health, Dr. Ganesh Bagler, IIIT Delhi	
	5.2 Session 2: Applied Data Analytics and Intelligence	
	5.2.1 Data Analytics in Governance and Policy Making, Dr. Avik Sarkar, OSD, Data Analytics Cell, NITI Aayog (Govt. of India)	
	5.2.2 Analysis of Biomedical Data using Image Processing and Soft Computing methods for Diagnostic Applications, Prof. (Dr.) Mahua Bhattacharya, IIITM Gwalior	
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	Panelists: Prof. (Dr.) Shandar Ahmed (JNU), Prof. (Dr.) Brejesh Lall (IIT Delhi), Prof. (Dr.) Binod Kumar (JNU), Prof. (Dr.) Devendra K. Tayal (IGDTUW), Dr. Harleen Kaur (Jamia Hamdard)	
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1. Jamia Hamdard



The golden history of Jamia Hamdard began with the establishment of a small unani clinic in the year 1906 by Hakeem Hafiz Abdul Majeed, a well-known practitioner of the Unani system of medicine. Hakeem Hafiz Abdul Majeed had a vision of making the practice of Unani medicine a scientific discipline so that it could be dispensed in a more efficacious manner among patients. He gave the name “Hamdard” to his venture, which means “sympathy for all and sharing of pain of all”. His illustrious son, Hakeem Hameed, carried forward the philosophy and objectives of Hamdard in independent India. For setting up a complex of research and educational institutions, Hakeem Abdul Hameed purchased a piece of land in Tughlaqabad area of South Delhi, which was hardly inhabited in those times. The first institution in the Tughlaqabad campus was the institution of History of medicine and medical research, whose foundation stone was laid on November 15, 1962, by Pandit Jawahar Lal Nehru, the former Prime Minister of India. In 1963, the Indian Institute of Islamic Studies was established, and in the same year, Hamdard Tibbi College was setup in Gali Qasim Jaan, Old Delhi. It was later shifted to the Jamia Hamdard campus in 1980 to provide education in Unani Medicine.

In 1964, the Hamdard National Foundation was created with a view to receive and disburse the profits earned by Hamdard Laboratories for the charitable cause of education, medical relief and advancement of knowledge. In 1972, Hamdard College of Pharmacy was setup with the objective of providing education and training in all branches of Pharmacy. The year 1989 saw the fulfilment of the dream of Hakeem Abdul Hameed, when Jamia Hamdard was given the status of Deemed to be University by the Ministry of Human Resource Development on 10th May, 1989.

2. SERB



Science and Engineering Research Board (SERB)
Department of Science and Technology (DST)
Govt. of India

The Science and Engineering Research Board (SERB) has its origin in the erstwhile Science and Engineering Research Council (SERC) of the Department of Science and Technology (DST), Government of India, which was established more than four decades ago. In the year 2009, the Parliament passed the bill to institute SERB, under the DST, and the same started functioning in 2011. Since then it has launched many schemes to cater to the funding needs of different segment of researchers, and it funds across 'disciplines' and 'institutions'. SERB is attempting to take Indian science and engineering research funding to the next level in keeping pace with the challenges of the modern era and meeting the expectations of researchers. It aspires to transform India into a significant player in S&T in the global setting.

3. Introduction

3.1 Background

Data Analytics drives the industry forward, optimizing nearly every dimension of the business. The proposed national R&D workshop was in the area of Data Analytics-Challenges, Opportunities and its Applications. Attendees from all the spheres shared their knowledge on advances and issues, dissected complex science and technology challenges in data analytics, and examined new ways to improve by emerging machine learning and Artificial Intelligence techniques used in data analytics and suggested smart solutions.

We believe that the recent advances and development in the landscape of the applications of data analytics technologies will make the outcome of this workshop particularly relevant and unique in its scope. The main purpose of the workshop was to allow experts and the users to interact and associate different low-level performance activities with the high-level data flow, models, and development and provide valuable insight into data and its applications in real time. This National Workshop brought together researchers, experts and professionals from computer science, informatics, and R&D.

3.2 Objectives of the workshop

The following objectives were identified in the conceptualization phase of the workshop:

- To provide the statistical approaches to data analytics and emerging machine learning and Artificial intelligence (AI) techniques
- To spread and analyze research potential only among working professionals towards data management techniques and their predictive modelling analytics tool it is proposed to train attendees and also explore their skill in data with different tactical tools.
- To discuss the main research challenges in the area of data analytics and determine how the Information and Communication Technology (ICT) community can contribute to these challenges.
- To provide opportunity for delegates to discuss amongst each other and to share experiences and knowledge.
- To enable participants to gain the requisite skills in formulating business and social problems, analyzing the problems and communicating the results effectively;
- To provide the societal impact through multidisciplinary interactions with government, academic intuitions, research and industrial collaborators on core challenges in the field of data analytics.

4. Opening of the workshop

The Department of Computer Science and Engineering, School of Engineering Sciences and Technology (SEST), Jamia Hamdard organized a National Workshop on Challenges and Opportunities in Data Analytics and its Applications on October 16, 2017 funded by SERB-DST (Govt. of India). It was attended by participants from academic institutions, industry, R&D organizations from all over the India.



The Vice-Chancellor of the university, Prof.

(Dr.) Seyed Ehtesham Hasnain welcomed the Chief Guest, Dr. Rajiv Sharma, Secretary, SERB-DST (Govt. of India) and Keynote Speaker, **Mr. Venkatesh Valluri, Chairman and Managing Director, Valluri Technology Accelerators**, invited experts and participants. He also appreciated the efforts made by Dr. Harleen Kaur, Organizing Secretary who coordinated and managed the workshop.



Prof. Ahmad Kamal, Pro-Vice Chancellor, Jamia Hamdard deliberated on the challenges and tasks on data analytics and their impacts.

Mr. S. S. Kohli, Advisor to SERB-DST, Prof. M. Afshar Alam, Head, Department of Computer Science and Engineering, Prof. Ranjit Biswas, Dean, SEST were also present in the inauguration function.

The speakers from IIT Kanpur, IIIT Delhi, NITI Aayog and IIITM Gwalior highlighted the data analytics impacts on Deep Learning, Engineering Asset Management, Food & Nutrition, Governance & Policy Making, Image recognition. They also highlighted the value-added services they provided.

The workshop had a panel discussion on R&D areas on data analytics, in which experts from IIT Delhi, JNU, and IGDTUW recommended that the department may take initiatives and affirmative action to conduct research in emerging areas such as Data Analytics, Machine Learning and Artificial Intelligence. Dr. Harleen Kaur, organizing secretary, coordinated the proceedings of the workshop and also proposed the vote of thanks.

4.1 Remarks from the Chief Guest, Dr. Rajiv Sharma Secretary, SERB-DST (Govt. of India)



Dr. Rajiv Sharma, Secretary SERB-DST (Govt. of India) was the chief guest of the workshop. In his speech, he talked about the difference of the value of data now and few decades back. He went on to mention how gathering useful data has become a challenge given the huge amount of data available through the advancements in technology. He further discussed the impact of social media on our day to day lives. He also cited how data are now becoming money and affecting economic

development. He concluded by congratulating Jamia Hamdard, for organizing such an event that discussed both the challenges and the applications associated with data. He inaugurated and proposed PhD fellowships to research scholars.

4.2 Remarks from the keynote speaker, Mr. Venkatesh Valluri, Valluri Technology Accelerators

Mr. Venkatesh Valluri, Chairman & Managing Director, Valluri Technology Accelerators & Valluri Change Foundation, was the keynote speaker. He expressed his views on Predictive Intelligence for Urbanization and Smart Cities in India. He recommended SERB-DST to establish a Centre on Data Analytics in Jamia Hamdard, driven by its strong human resource.



Mr. Valluri recommended that Machine Intelligence and Robotics should become a part of higher education; He also recommended for the establishment of a Research Center on Data Analytics and requested SERB-DST to provide the necessary funds. He further went on to acknowledge that the university has a strong human resource in the department of CSE and, therefore, should have a Chief Data Officer, to analyse the available data and accordingly take decisions for the betterment of the institute.

Recommendation:

...The Keynote Speaker Mr. Venkatesh Valluri recommended the establishment of a Research Centre on Data Analytics and requested SERB-DST to provide the necessary funds. He too was of the view that the department of CSE had the necessary resources to do justice to the center.

4.3 Presidential Remarks by Prof. (Dr.) Seyed Ehtesham Hasnain, Hon'ble Vice Chancellor, Jamia Hamdard.

Prof. Dr. Seyed Ehtesham Hasnain, Vice Chancellor, Jamia Hamdard, in his speech expressed the view that today a huge amount of data are available and so it had become a challenge to sieve through it to glean relevant information and then convert it into knowledge. He also threw light on the various application areas of big data analytics like weather prediction, prediction of economy growth, business analysis etc. He also discussed how biology/medicine areas were submerging with big data. In the context with medicine, he explained how countries like UK, Japan, China etc., were using the big data analysis to diagnose various diseases. He also highlighted the usage of Machine Learning and Artificial Intelligence in our day to day lives. He also informed the audience that given the fact that Big Data are so critical to our lives, Department of Computer Science Engineering was planning to start the M.Tech Program in Big Data from the next session.




Prof. M. Afshar Alam
Head, Department of CSE

5. Summary of the Workshop Sessions

The major points of each session are summarized in this section.

Session 1: Paradigm in Data Analytics

5.1 Speaker: Prof. (Dr.) Nalinaksh S. Vyas, IIT Kanpur

Topic: Deep Learning Paradigm for Engineering Asset Management



Dr. Vyas discussed about Deep Learning Paradigm for Engineering Asset Management. The main topics he covered were Deep Learning Paradigm, how Neural Networks help in dealing with huge input data sets, Deep Learning Architectures, Automotive Health Assessment and Management, Asset Management, Railway Scheduling, and Generic Asset Management Application.

Detailed Report

Deep learning is based on a set of algorithms that attempt to model high level abstraction in data. It is linked to many applications in neural coding. Various deep learning architectures comprise deep neural networks, deep belief networks, recurrent neural networks etc.

Neural networks have always been applied to many engineering problems like computer vision, condition monitoring and bioinformatics etc. A fault symptom frame may be used to represent a huge amount of data.

These neural networks and their deep learning mechanisms have applications in the following areas:

- Aerospace-
IVHM- Where it works on four different levels
Level 1: Technology and Development
Level 2: Subsystems health management
Level 3: Aircraft System Level Health Management
Level 4: Aircraft level

- Financial management : Aspects such as below are covered:
 - Portfolio selection
 - Fraud detection
 - Banking Failure Forecasting
- Scheduling: An important factor in the Railway Management system, it decides how many trains can arrive at a time at a station or how many can leave. Also, it decides how much ground staff is required and hence appointed. This involves Big Data Analytics. Therefore, it needs to function flawlessly so that individual components can work effectively too.

Conclusion

The project of building and using deep learning for asset health management and scheduling etc. is complete on papers. But on practical grounds, the implementation requires professionals with deep understanding of the subject matter and 100% precision rate. These concepts are still in the initial phase. The implementation process is being carried out in collaboration with South Korea. It includes extensive use of sensing devices like sensors (an aircraft engine itself would require 2 dozen sensors), and cameras to satellites. Once implemented, it would effectively let the engineers and managers know the health status of various assets, what needs to be replaced and how long can we continue with a certain machine part. This would make decisions on part of authorities easier and would also reduce costs incurred in replacing locomotives, especially those used by the defense forces.

5.2 Speaker: Dr. Ganesh Bagler, IIIT Delhi

Topic: Data Analytics for Food, Nutrition and Health

Dr. Bagler enlightened the workshop participants on “Data analytics for food, nutrition and health” in a very comprehensible way.

Culinary practices are shaped by a complex interplay of culture, climate, history, geography and genetics. Indian cuisine encompasses a number of diverse sub-cuisines separated by geographies, climates and cultures. Its culinary system has a long history of health-centric dietary practices focused on disease prevention and promotion of health. These factors influence food preferences and recipe composition, thereby altering the fabric of cuisine. Recipe composition pattern in a cuisine provides a means for investigating its gastronomic history and molecular constitution. The shift to cook diet has been proposed to be a trigger for



increased brain size in humans. Indian culinary system has traditionally developed dietary practices where food has nutritional as well as medicinal value. Ayurveda, the classic medicinal system of India, proposes that food has as much therapeutic value as drugs and even uses similar processing techniques for their preparation.

The speaker has analyzed the recipe composition as well as flavour compound constitution of the Indian cuisine in search of its quintessential features. Specifically, he has quantified the food pairing pattern and built models to identify features that explain statistical properties of the cuisine. During the workshop, he discussed food pairing in recipes of the Indian cuisine to show that, in contrast to positive food pairing reported in some Western cuisines, Indian cuisine has a strong signature of negative food pairing; more than the extent of flavour-sharing between any two ingredients, lesser their co-occurrence. This feature is independent of recipe size and is not explained by ingredient category-based recipe constitution alone. Ingredient frequency has emerged as the dominant factor specifying the characteristic flavour sharing pattern of the cuisine. Spices, individually and as a category, form the basis of ingredient composition in the Indian cuisine. The flavour constitution of the Indian cuisine was explored for ingredient composition and food pairing at the levels of cuisine, sub-cuisines, recipes and ingredient pairs. He discussed on built controls to probe for the role of factors that may be crucial in shaping recipes and, hence, the cuisine

He further talked about FlavorDB. Flavour is an expression of olfactory and gustatory sensations experienced through a multitude of chemical processes triggered by molecules. Beyond their key role in defining taste and smell, flavour molecules also regulate metabolic processes with consequences to health. Such molecules present in natural sources have been an integral part of human history with limited success in attempts to create synthetic alternatives. Given their utility in various spheres of life such as food and fragrances, it is valuable to have a repository of flavour molecules, their natural sources, physicochemical properties, and sensory responses.

FlavorDB comprises of 25595 flavour molecules representing an array of tastes and odours. Among these 2254 molecules are associated with 936 natural ingredients belonging to 34 categories. The dynamic, user-friendly interface of the resource facilitates exploration of flavour molecules for divergent applications: finding molecules matching a desired flavour or structure; exploring molecules of an ingredient; discovering novel food pairings; finding the molecular essence of food ingredients; associating chemical features with a flavour and more. Data-driven studies based on FlavorDB can pave the way for an improved understanding of flavour mechanisms.

The speaker's study has provided a basis for designing novel signature recipes, healthy recipe alterations and recipe recommender systems. His study illustrates application of data analysis and modelling for exploring chemical basis of a cuisine. He concluded by quoting Mr. Jean Anthelme that the discovery of a new dish confers more happiness on humanity than the discovery of a new star.

Session 2: Applied Data Analytics and Intelligence

5.3 Speaker: Dr. Avik Sarkar, OSD, Data Analytics Cell, NITI AAYOG (Govt. of India)

Topic: Data Analytics in Governance and Policy Making

Dr. Sarkar expressed his views on the topic, “Data analytics in Governance and Policy Making”. He mentioned that traditional Policy Making is slower and how with the help of data analytics, Policy Making in Governance became easy.

He further talked about the various tools in Business Analytics to solve the business complexity.



The types of business analytics he discussed were:

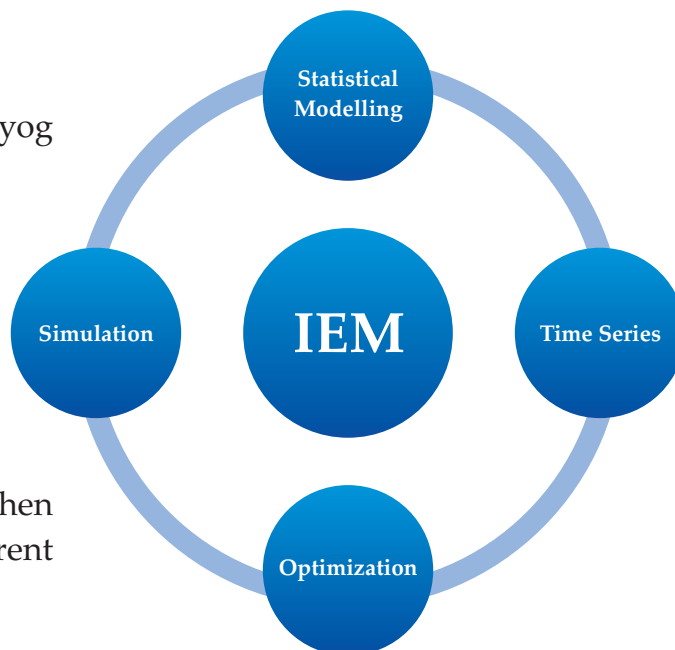
- i. Descriptive
- ii. Predictive
- iii. Prescriptive or Optimization

He also threw light on Text Mining & Content Analytics. He mentioned that most of the data are actually unstructured, and are structured and given a tabular form with the help of these techniques.

He highlighted the Integrated Energy Model used in NITI Aayog to collect data from a various resources to reduce data complexity.

He provided an insight into the NITI Aayog Integrated Energy Modelling (IEM) process:

He also shared information that the government is using large amount of data out of which 80-90% was unstructured. For proper use of data, it needed to be in structured form with the help of the Integrated Model. These structured data then satisfied the various requirements of the different sectors of the govt.



5.4 Speaker: Prof. (Dr.) Mahua Bhattacharya, IIITM Gwalior

Topic: Analysis of Biomedical Data using Image Processing and Soft Computing methods for Diagnostic Applications

Detailed report

Data is an important part for everyday technology. Everything depends on the type of data that we acquire and what technique is used to analyse it. There should be coordination between medical science as well as computer science. Homogeneity is the technique that is used for data analysis. For example, pixel-level information includes the position and the intensity of the pixel. Hybrid computing is the growing technology that is used in place of soft computing nowadays. These techniques are used to solve few of the problems in data processing.



Different categories of medical data analysis research as:

- i. Collection of raw medical data
- ii. Processing of data
- iii. Segmentation of ROI as per medical observation
- iv. Identification/classification of lesion for surgical assistance
- v. Gradation identification of different stages of diagnosis
- vi. Medical image registration for different modality images

Different diagnostic modalities have different images like MRI, PET scan, and X-ray etc.

Challenges discussed as follows:

- i. Image acquisition done to retrieve data is important.
- ii. Coordination is required between a medical analyst as well as computer science analyst to acquire data for successful data analysis. Image processing may be inadequate for medical analysis.

Approaches discussed as follows:

- i. Segmentation of brain MR images.
- ii. Comparative study of FCM and Markov random field approaches.
- iii. Locate tumour and pathological issues
- iv. Measure tissue volume
- v. Study

Conclusion

Uncertainty or vague data are limitations that are very much visible. Therefore, an algorithm must be developed to prevent such uncertainty in information. Thus, there should be a clear coordination between medical science and computer science for enhancing the analysis and

6. Expert Panel Discussion

Panelists: Prof. (Dr.) Shandar Ahmed (JNU)
Prof. (Dr.) Brejesh Lall (IIT Delhi)
Prof. (Dr.) Binod Kumar (JNU)
Prof. (Dr.) Devendra K. Tayal (IGDTUW)
Dr. Harleen Kaur (Jamia Hamdard)

Panel Members discussed on the emerging areas of data analytics



Big data analytics examines large amounts of data to uncover hidden patterns, correlations and other insights. With today's technology, it's possible to analyze your data and get answers from it almost immediately - an effort that's slower and less efficient with more traditional business intelligence solutions. Data analytics became popular for a voluminous amount of data. The explosive growth in the number of devices connected to the

Internet of Things (IoT) and the exponential increase in data consumption only reflect how the growth of big data perfectly overlaps with that of IoT. The management of big data in a continuously expanding network gives rise to non-trivial concerns regarding data collection efficiency, data processing, analytics, and security. To address these concerns, researchers have examined the challenges associated with the successful deployment of IoT. Despite the large number of studies on big data, analytics, and IoT, the convergence of these areas creates several opportunities for flourishing big data and analytics for IoT systems.

Panel Members discussed the following topics:

What are the advantages for huge amount of data?

Instead of network architecture, people have started using machines. These devices have different features. IoT is generated presently and would be also generated for the next few years.

How to handle huge amount of data?

Firstly, there is no taxonomy of data. Secondly, there is mixing of languages. Thirdly, the algorithms are not sufficient for handling this type of data.

What are the R & D areas in data analytics?

The goal of data analytics is to extract knowledge from huge amount of data. The data is collected from low-level resolution. We have a high-level resolution data as well. But the main

goal of the data analytics is obtaining low-resolution of data through high put information. Simple statistics is difficult from huge data. We also apply some techniques in data analytics. For advanced techniques machine learning is used.

Prof. Devendra K. Tayal discussed on the structured data and unstructured data in data analytics. We have to analyze data first and then see which type of algorithms and constraints are used to process the data. We have one data from one domain & another data from another domain. There are three types of data we need to consider, structured, unstructured, and semi-structured data. We have been refining our use of structured data for the past 10 or 20 years. Opportunity lies in understanding how adding unstructured and semi-structured data to the mix creates competitive advantage.

Professionals have been focusing on large amount of data. The characteristics of data changes with time and parameters also change with data. A lot of data is being generated. We need to understand the new opportunities available in Data Analytics from unstructured and semi-structured data, and how to blend these newly available data types into their data-driven competitive strategies.

Panel members discussed the methodology used for data analytics?

There are various methodologies of data analytics such as Deep Learning techniques, scalability of algorithms and portability, which are being used now days.

However, methodology of data analytics changes from one data to another data, for example, if stored in the form of table and some mining techniques are available to convert it in the form of text. The question arises what kind of data do we have? Therefore, it is very important for a particular type of data, especially when we have a data from a real world. And how many times the data is inconsistent? One particular type of model can't be applicable to another class of data because of complex and variability of data patterns.

7. Output of the Workshop

The main outcomes of the workshop included:

- i. Centre initiatives: To establish a Research centre at Jamia Hamdard on Data Analytics.
- ii. Jamia Hamdard has agreed to start M.Tech. programme in Big data analytics, which is of National Importance.
- iii. Establish a collaborative networking between experts and professionals from computer science and informatics and R&D, and build a capacity for Public-Private Partnerships (PPP).
- iv. Draft Roadmap and Action Plan for achieving a higher trajectory in the field of big data analytics specially.
- v. Build a standards landscape for data analytics and its applications.
- vi. Identify and prioritize technical areas related to big data analytics.

ANNEXURE A

SERB-DST (Govt. of India) Sponsored National Workshop on Challenges and Opportunities in Data Analytics and its Applications **WORKSHOP SCHEDULE**

Title	Duration	Speaker
Registration Desk	09:30 am - 10:00 am	
Workshop Inauguration	10:30 am - 11:25 am	
High Tea	11:25 am - 11:40 am	
Group Photo		
Session 1 : Paradigm in Data Analytics		
Deep Learning Paradigm For Engineering Asset Management	11:45 am - 12:20 pm	Prof. (Dr.) Nalinaksh S. Vyas IIT Kanpur
Data analytics for food, nutrition, and health	12:20 pm - 01:00 pm	Dr. Ganesh Bagler IIT Delhi
Lunch Break	01:00 pm - 01:45 pm	
Session 2 : Applied Data Analytics and Intelligence		
Data Analytics in Governance and Policy Making	01:45 pm - 02:30 pm	Dr. Avik Sarkar OSD, Data Analytics Cell, NITI Aayog (Govt. of India)
Analysis of Biomedical Data Using Image Processing & Soft Computing Methods for Diagnostic Application	02:30 pm - 03:15 pm	Prof. (Dr.) Mahua Bhattacharya IITM Gwalior
Expert Panel Discussion	03:15 pm - 04:00 pm	Expert Panel Members - Prof. (Dr.) Nalinaksh S. Vyas, IIT Kanpur - Prof. (Dr.) Shandar Ahmad, JNU - Prof. (Dr.) Brejesh Lall, IIT Delhi - Prof. (Dr.) Binod Kumar, JNU - Prof. (Dr.) Devendra K. Tayal, IGDTUW Delhi & Others
Valediction & Certificate Distribution	04:00 pm - 04:30 pm	
High Tea		

ANNEXURE B

WORKSHOP PRESENTERS

DEEP LEARNING PARADIGM FOR ENGINEERING ASSET MANAGEMENT

Prof. Nalinaksh S. Vyas, IIT Kanpur

Professor, Department of Mechanical Engineering,
Indian Institute of Technology Kanpur
Chairman, Technology Mission for Indian Railways
Ministry of Railways, Government of India

Former Vice Chancellor
Rajasthan Technical University



Cell: +91 9956292801, web: <http://home.iitk.ac/~vyas>

ABSTRACT

Deep Learning is a branch of learning based on a set of algorithms that attempt to model high-level abstractions in data by using a deep graph with multiple processing layers, composed of multiple linear and non-linear transformations.

These models help to learn representations from large-scale unlabeled data. Some of the representations are inspired by information processing and communication patterns in a nervous system, such as neural coding. Various deep learning architectures comprise deep neural networks, convolutional deep neural networks, deep belief networks and recurrent neural networks. Stand-alone neural networks have been applied to engineering problems like condition monitoring, computer vision, automatic speech recognition and bioinformatics. Such stand-alone networks have also been developed for various areas of finance, like portfolio selection, fraud detection and banking failure forecasting. Engineering Asset Management, addressing the general problem of physical asset management, relating engineering capability to economic cost and value in a highly integrated way requires integrated analytical tools to handle big data which is intense, unstructured, uncertain and with hidden relationships. This talk will discuss the possibilities of developing a Deep Learning Software Paradigm of extensive highly interconnected complex processes of input-output mappings for knowledge extraction and decision-making for an Engineering Asset.

BIOGRAPHY:

Prof. Nalinaksh S. Vyas has been at the Indian Institute of Technology Kanpur since 1987 and also currently functions the Chairman of the Technology Mission for Indian Railways of the Government of India. At IIT Kanpur, he is also the Head of Mechanical Engineering

Department, Nuclear Engineering Department, Centre for Mechatronics and the Innovation Laboratory. He has also been a Visiting Professor at Virginia Tech, USA; INSA Lyon, France; Lulea University, Sweden and National Chung Cheng University, Taiwan. He served as the Vice Chancellor of Rajasthan Technical University between 2013-15. His research interests lie in Turbomachinery Dynamics, Nonlinear Parameter Estimation, Instrumentation and Integrated Health Monitoring of Machinery. He has executed major projects for organisations like the Aeronautical Research & Development Board, Department of Science & Technology, Indian Space Research Organisation, Ministry of Railways, TATA Consultancy Services, Larson & Toubro, Scooters India, Hindustan Aeronautics Limited, Gas Turbine Research Establishment, among others. He currently chairs the Technology Systems Development Program and the Expert Group on Smart Manufacturing - Automation and Information & Communication Technologies (ICT); Advanced Robotics (AR) & Industrial Internet of Things (IIOT), of the Department of Science & Technology, Government of India. He is also a member of Advisory Group of Experts (AGE), NITI Aayog, on Upgradation of Technology and Leveraging 'Make in India' in the Railways. He has been the National Coordinator for an earlier Technology Mission on Railway Safety, Govt of India; Chairman, Automotive Parc, National Program on Smart Matls & Structures, Govt of India; Project Coordinator, Nano-Satellite, JUGNU Project with ISRO; Consortium Leader, Automotive Electronic Stability Program, Core Group on Automotive Research; Member, Expert Task Force on IVHM of LCA (Light Combat Aircraft); Editor, ISSS Journal (International Society of Smart Systems); Editor, Advances in Vibration Engineering; Member, Indo-US Task Force on Embedded Systems; Founding Director, International Society on Asset Management, Australia. He is, currently, also on the Board of Governors of IIT Jodhpur and on the Executive Council of the All India Council for Technical Education.

Dr. Ganesh Bagler, IIIT Delhi

Center for Computational Biology, IIIT-Delhi, New Delhi 110020

Complex Systems Laboratory: <http://cosylab.iiitd.edu.in/>



Title: Applications of data analytics for food, nutrition, and health

Summary: Have you ever wondered why do we combine ingredients in our recipes the way we do? Or for that matter, could we find scientific ways for altering diet to improve health? Data-driven investigations from our lab aimed at probing patterns in traditional Indian recipes, in response to the first question, have led us to the discovery of a novel food pairing phenomenon in the Indian cuisine. Our studies have revealed 'culinary fingerprints' of regional cuisines and role of spice as the molecular fulcrum of Indian recipes. Such data-driven explorations of food are opening new avenues for development of divergent applications in the domains of nutrition and health. Some of the research dimensions that exploit computational techniques such as machine learning and natural language processing are novel recipe generation, identification of the molecular essence of an ingredient, probing the molecular basis of flavor, analytics of food-disease associations and personalized nutrition. In this talk, I shall present our discovery of the unique contrasting food pairing pattern, challenges in food data analytics and opportunities for transforming the landscape of food, nutrition, and health through data-driven studies.

BIOGRAPHY: Ganesh Bagler

Dr. Ganesh Bagler is an interdisciplinary researcher, and the focus of Complex Systems Laboratory includes studies in the domains of complex systems, computational systems biology, as well as applications of data science to health and medicine. He follows the philosophy of integrative modeling and analysis of complex systems, aimed at investigating their control mechanisms and design principles. His studies probing the residue interaction graph models of protein structures have led to the discovery of 'assortative mixing' that has a bearing on their folding kinetics, and engineering of a thermostable enzyme. As part of a framework for integrative studies of complex diseases towards identification of potential therapeutic targets and subsequent in silico drug discovery, he has modelled molecular mechanisms of asthma, cancer metastasis, and diabetes as complex networks and has sought for ways of their control. He has also been working on integrative models of drugs, targets and side effects towards accurate prediction of adverse drug reactions and for drug repurposing. In an interesting exploration, through data-driven investigations aimed at probing patterns in traditional Indian recipes, his lab has reported the discovery of a unique 'contrasting food pairing' in Indian cuisine. This discovery has opened a whole new paradigm for food data analytics involving novel recipe generation algorithms, food-disease association and the molecular basis of taste and odor, towards leveraging food for better health and nutrition.

Dr. Avik Sarkar

OSD, Data Analytics Cell, NITI Aayog (Govt. of India)

Dr. Avik Sarkar is an Officer on Special Duty (OSD) at NITI Aayog. NITI Aayog (National Institution for Transforming India Aayog) is a premier policy think-tank of the Government of India. Dr. Sarkar is in-charge of the Data Analytics Cell at NITI Aayog developing roadmap for use of data/analytics for Governance and Policy making along with providing analytical insights for policy making across sectors like Direct Benefit Transfer, Innovation, Digital payments, Healthcare/Nutrition, Agriculture, etc. Dr. Sarkar is engaged with the Energy Vertical at NITI Aayog instrumental in the various long term planning of future energy needs of India through initiatives like integrated energy modelling, energy data management, etc.



Dr. Sarkar has over 15 years of experience across different aspects of data analytics, statistical modeling, data/text mining across companies like IBM, Accenture, Nokia, NASA, Persistent Systems, etc. In his last role at Accenture Consulting in Singapore, Dr. Sarkar contributed to various data and analytics related engagements with Singapore Government like efficient reporting and resolution of municipal issues, evaluation and monitoring of secondary school education, improving operational efficiency in immigration and customs. While at IBM, Dr. Sarkar made significant contributions towards developing the Monte Carlo Simulation of SPSS and the Predictive Maintenance and Quality solution for the manufacturing sector. Dr. Sarkar holds a PhD from The Open University, UK, Masters from Indian Institute of Technology (IIT) Bombay and Bachelors from Calcutta University. Dr. Sarkar has authored several technical publications and technology patents. Further details are available at: <https://in.linkedin.com/in/aviksarkar>

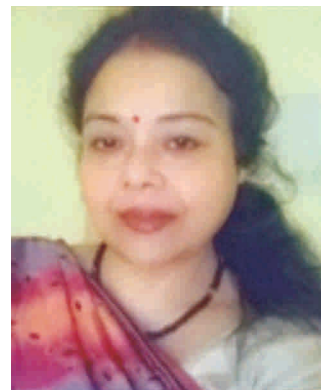
Prof. (Dr.) Mahua Bhattacharya, IIITM Gwalior

Member IEEE

President, International Neural Network Society (INNS),

India Chapter In Charge Medical Informatics Lab

In-Charge Visual Information Processing Lab



Teaching Interests:

Computer Vision, Computer Graphics, Image Processing, Pattern Recognition, AI and Soft Computing, Natural Language Processing, Digital Signal Processing, Signals and Systems, DBMS, Analog and Digital Communication, Human Computer Interface.

Areas of Interest:

Medical Image Processing, Data Mining, Image Security, Soft Computing. Computer Vision and Expert System Design, Bioinformatics, Speech Processing, Image Processing, Pattern Recognition, Computer Vision, Artificial Intelligence, Soft Computing, Medical Image Analysis, Computer Vision in Agriculture, Study of Cell Morphology exposed in EMF Radiation.

Prof. (Dr.) Shandar Ahmad, JNU

Areas of Interest:

Protein-DNA interactions

Genome-wide DNA conformation

Microbial genome assembly and genome-phenome association

Algorithms for Computational Biology

Machine Learning and Integrative analysis of biological data;

Neural networks, deep learning and big data analytics



Experience: Lecturer/Reader/Professor at Jamia Millia Islamia, New Delhi (Aug 1994-Jan 2007)

Visiting Scientist at RIKEN Tsukuba Institute, Tsukuba, Japan (2001)

Visiting Lecturer at Universiti Putra Malaysia, Malaysia (2000-2001)

Senior Scientist at Kyushu Institute of Technology, Japan (2003-2005)

Research Scientist at National Institute of Biomedical Innovation, Osaka, Japan (Jan 2007-March 2016)

Adjunct Associate Professor at Graduate School of Frontier Bioscience, Osaka University, Japan (April 2008-March 2016)

Awards & Honours:

Appointed Visiting Scientist at National Institute of Biomedical Innovation, Health and Nutrition, Japan w.e.f. April 2016-March 2017

Best Peer Reviewed Publications (upto 5):

Analysis and prediction of DNA-binding proteins and their binding residues based on composition, sequence and structural information, S Ahmad, MM Gromiha, A Sarai, *Bioinformatics* (2004) 20 (4), 477-486

ReadOut: structure-based calculation of direct and indirect readout energies and specificities for protein-DNA recognition, S Ahmad, H Kono, MJ Arauzo-Bravo, A Sarai, *Nucleic acids research* (2006) 34 (suppl 2), W124-W127

Protein-DNA interactions: structural, thermodynamic and clustering patterns of conserved residues in DNA-binding proteins, S Ahmad, O Keskin, A Sarai, R Nussinov. *Nucleic acids research* (2008) 36 (18), 5922-5932

CCRXP: Exploring clusters of conserved residues in protein structures Shandar Ahmad, Ozlem Keskin, Kenji Mizuguchi, Akinori Sarai, and Ruth Nussinov, *Nucl. Acids Res.* (2010) 38 (suppl 2): W398-W401

Prediction of dinucleotide-specific RNA-binding sites in proteins, M Fernandez, Y Kumagai, DM Standley, A Sarai, K Mizuguchi, S Ahmad BMC bioinformatics (2011) 12 (Suppl 13), S5

Recent Peer Reviewed Journals/Books (upto 3):

Profiles of microRNA networks in intestinal epithelial cells in a mouse model of colitis Juneyoung Lee, Eun Jeong Park, Yoshikazu Yuki, Shandar Ahmad, Kenji Mizuguchi, Ken J Ishii, Motomu Shimaoka, Hiroshi Kiyono, Scientific reports (2015) 5

Genome-wide transcription factor activities are explained by intrinsic conformational dynamics of binding-sites and distal flanking-regions, Munazah Andrabi, Andrew Paul Hutchins, Diego Miranda-Saavedra, Hidetoshi Kono, Ruth Nussinov, Kenji Mizuguchi, Shandar Ahmad (2015) bioRxiv, 020602

Conformational changes in DNA-binding proteins: Relationships with precomplex features and contributions to specificity and stability, M Andrabi, K Mizuguchi, S Ahmad, Proteins: Structure, Function, and Bioinformatics (2014) 82 (5), 841-857

Prof. (Dr.) Brejesh Lall, IIT Delhi

Qualifications:

B.E. (Electronics & Comm.) - Delhi college of Engineering, M.E. Delhi college of Engineering, Ph.D. (Signal processing) - IIT Delhi.

Areas of Interest:

Multiscale Modeling of Stochastic Processing,
Widesense Cyclostationary Process Representation,
Physical layer in Wireless Communication.



Prof. (Dr.) Binod Kumar



Areas of Interest:

Modeling of RF System Design and microstrip antenna, Dielectric Resonator Antenna, Left Handed Metamaterial Microstrip Antenna, Shorted Microstrip Antenna, Ultra-Wideband Antennas, Reconfigurable and Circular Polarized Antenna for Wireless Communication and Mobile Communication, Computational RF Radiator.

Binod Kumar Kanaujia is currently working as Professor in the school of Computational and Integrative sciences, Jawaharlal Nehru University New Delhi-110067. Prior to joining of this university, He was Professor in the Department of Electronics & Communication Engineering in Ambedkar Institute of Advanced Communication Technologies & Research (formerly Ambedkar Institute of Technology), Govt. of NCT Delhi, Geeta Colony, Delhi Science 26 Feb. 2011 to 31 July 2016 and 26 Feb. 2008 to 25 Feb. 2011 as Associate Professor & 30 Jan 2008 to 25 Feb. 2008 as Assistant Professor in same Institute. he also served as Head of Department From 21 Feb. 2008 to 05 Aug 2010 and 17 August 2012 to 5th June 2014 and Coordinator M.Tech. RF and Microwave Engineering in from August 2012 to July 2016. Head of Office Ambedkar Institute of Technology, Govt. of NCT Delhi Geeta Colony, Delhi-110031 from 09 July 2008 to 03 may 2013. In 1996 he joined the faculty of the M.J.P. Rohilkhand University Bareilly U.P. 243006. as an Lecturer of Electronics and Communication Engineering. He was promoted to Reader in 2005, and he also served as Head of Department from July. 2006 to Jan. 2008.

Awards & Honours:

Consolation prize Winner for Paper of the technical session on Microstrip antenna in the 4th International Conference on Radio Science ICRS-2008, 27th-29th February 2008
Jodhpur

Member of IEEE

Life Member of Institution of Electronics and Telecommunication Engineers.

Life Member of Institution of Engineers.

Life Member of Indian Society for Technical Education.

Best Peer Reviewed Publications (upto 5):

1. Binod K. Kanaujia and Babau R. Vishvakarma, "Analysis of Gunn integrated annular ring microstrip antenna," IEEE Trans. Antennas Propagat., (USA) vol. 52, no. 1, pp. 88-97, Jan. 2004.

2. Binod K. Kanaujia, A. K. Singh and Babau R. Vishvakarma, "Frequency agile annular ring microstrip antenna loaded with MOS capacitor," *Journal of Electromagnetic wave and application (JEMWA)*, (USA) vol. 22, pp. 1361-1370, 2008.
3. A.K. Gautam, Swati yadav and Binod K Kanaujia, "A CPW Fed Compact UWB Microstrip Antenna", *IEEE Antennas and Wireless Propagation Letters (USA)* vol. 12, pp. 151-154, 2013.
4. Ganga Prasad Pandey, Binod K. Kanaujia A. K. Gautam and Surendra K. Gupta "Ultra-wideband L-strip proximity coupled slot loaded circular microstrip antenna for modern communication systems," *Wireless Personal Communication Springer*, vol. 70, no. 1, pp. 139-151, May 2013.
5. Tarun kumar, A.K.Gautam, Binod Kr Kanaujia and K Rambabu "Design of a miniaturized UWB antenna for oil pipeline imaging" *Electronics Letters IET*, (UK) vol. (51), No. 21, pp. 1626-1628, 2015.

Recent Peer Reviewed Journals/Books (upto 3):

1. A.K.Gautam, Lalit Kumar, Binod Kr Kanaujia and K Rambabu, "Design of Compact F-shaped slot Triple Band Antenna for WLAN/WiMAX Applications" *IEEE Trans. Antennas Propagat.*, (USA) vol. 64, no. 03, pp. 1101-1105, March 2016.
2. Akanksha Farswan, A.K.Gautam, Binod Kr Kanaujia and K Rambabu, "Design of Koch Fractal Circularly Polarized Antenna for Handheld UHF RFID Reader Applications" *IEEE Trans. Antennas Propagat.*, (USA) vol. 64, no. 2, pp. 771-775, 2016.
3. Book Chapter Developments in Efficient Antenna Designs Using EBG Structures...in "Handbook of Research on Advanced Trends in Microwave and Communication Engineering" By Naveen Jaglan, Samir, Dev Gupta, Binod Kumar Kanaujia and Shweta Srivastava.

Prof. (Dr.) Devendra K. Tayal, IGDTU

Areas of Interest:

Fuzzy Database Management, Intelligent Techniques, Data & Text Mining, Natural Language Processing.

Dr. Devendra K. Tayal is a faculty at IGDTUW. Earlier he was Head of Department of Computer Science & Engineering. He has done M.Tech. (Computer Engg.), Ph.D. (Computer Engg.) from Jawaharlal Nehru University. He has a teaching experience of more than 13 years. He did his research in the field of Intelligent Systems and has published approximately 30 research papers in International Journals & Conferences. He was earlier selected as a Research Engineer in C-DOT (Govt of India) and also a Class-I Gazetted Officer by UPSC. He is a member of International Advisory committee of the International Journal of Computer Science, Hongkong and member of the International Advisory Board of International Journal of Software Engg & Applications, Korea. Besides, he is referee on the Editorial board of various International Journals including the famous "IEEE Transactions on Fuzzy Systems" having the SCI Impact Factor 4.26. He has extensively delivered lectures in Conferences, Seminars and Workshops. He regularly conducts Conferences & Workshops in his field of interest, in his department and outside also. He is currently supervising Ph.D in the field of Intelligent Systems, Data-Mining, DBMS and Text Mining & Natural Language Processing.



ANNEXURE C

LIST OF WORKSHOP PARTICIPANTS

S. No.	Name	Organization
1	Akoijam Mamata Devi	SGT UNIVERSITY
2	Anuja	JH-IMM, Jamia Hamdard
3	Ashish Kuamr Pandey	SARDAR VALLABH BHAI PATEL UNIVERSITY
4	Ashutosh Bhatnagar	IIMT University
5	Atif Faridi	Central University of South Bihar
6	Ayush Saxena	PT.DDUMC
7	Bhanu Joshi	Pt. Ddumc
8	Charu Rai	School of Biosciences, Apeejay Styta University
9	Deepa Bhardwaj	MRIU Faridabad
10	Deepak Mudgil	MIDFT
11	Deepti Gupta	Jamia Millia Islamia
12	Devendra Kumar	Sardar Vallabhbhai Patel University
13	Dinesh Sharma	Amity University
14	Dr Pawan Kumar Pareek	Seth GL bihani SDPG College Sri Ganganagar
15	Dr Virender Kumar Malhotra	IGNOU
16	Dr. Anju Dhiman	Maharshi Dayanand University, Rohtak
17	Dr. Dadaso Jaypal Shetti	Smt. Kasturbai Walchand College
18	Dr. Devendra K. Tayal	IGDTU
19	Dr. Dinesh Puri	I.T.S College of Pharmacy
20	Dr. Kumar Siddharth Singh	National Centre for Cell Sciences, Pune
21	Dr. Manoj Kumar Sharma	Sardar Vallabhbhai Patel University
22	Dr. Pawan Tyagi	IIMT University
23	Dr. Praveen Kumar Gaur	I.T.S College of Pharmacy
24	Dr. Vikas Jindal	APEEJAY STYA UNIVERSITY
25	Dr. Vipin Khurana	ICFAI Business School Gurgaon
26	Dr.Aisha Siddiqui	Jamia Hamdard
27	Dr.Naseem Rao	Jamia Hamdard
28	Faiyaz Ahmad	Jamia Millia Islamia
29	Fatima Nazish Khan	Jamia Millia Islamia
30	Hammad Alam	Jamia Millia Islamia
31	Hariom Tripathi	Pt. DDDUMC
32	Harsh Pal	Pt. DDDUMC
33	Jahanara Rahman	Faculty of Nursing
34	Javed Azmi	Jamia Hamdard
35	Kanak Meena	IGDTU

36	Karan Joshi	Kumaun University
37	Karuna Lochab	IGDTUW
38	Kunal Sharma	telecon
39	Lovnish Thakur	Apeejay Stya University
40	Manish Madhava Tripathi	Integral University
41	Mohammad Arif	Integral University
42	Mohammad Azam Khan	JIMANAGEMENT, LUCKNOW
43	Mohammad Haroon	integral university lucknow
44	Mohd. Rizwan Jameel	PROF. SHER ALI
45	Mr. Sunil Kumar Dular	Faculty of Nursing, SGT University
46	Neeti Gupta	Pt.ddumc mall road
47	Neha Sharma	GD Goenka University
48	Radhika Bansal	PT.DDUMC
49	Rajni	Lovely Professional University
50	Ravi Jain	Apeejay stya university
51	Rimsha Zafar	Nliu
52	Rubi Anjum	Jamia Hamdard
53	Sadhana Sharma	NIFTEM
54	Shahebaaz Khan Pathan	NIPER, Mohali
55	Shamshad Ahmad	BBAU,Lucknow
56	Sheweta Barak	MIDFT
57	Shish Ahmad	Integral University
58	Shveta	National Dairy Research Institute
59	Somibala Thokchom	School of nursing sciences, Jamia hamdard
60	Sonakshi Vij	IGDTUW
61	Suhail Javed Quraishi	Invertis University
62	Sumit Joshi	PT. DDUMC
63	Syed Arshad Ali	Jamia Millia Islamia
64	Syed Taha Owais	NIC
65	Tawseef Ayoub Shaikh	ALIGARH MUSLIM UNIVERSITY
66	Umair Mushtaq Khan	baba ghulam shah badshah university
67	Vikas Sood	Jamia Hamdard
68	Zeeshan Ahmad Abbasi	Jamia Millia islamia
69	Zoha Usmani	TCS



REPORT ON
WORKSHOP ON APPLICATION OF
NMR SPECTROSCOPY IN CHEMISTRY

Department of Pharmaceutical Chemistry, School of Pharmaceutical Education and Research, Jamia Hamdard (SPER), New Delhi, India organised one-day workshop on Application of NMR spectroscopy in chemistry on December 14, 20017.

The workshop aimed at exposing the participant NMR spectroscopy through hands-on training. The participants learned the sample preparation, setting the instrumental parameters, sample injection, data acquisition and processing and data interpretation.

About 100 registration requests were received on the conference portal. Out of these 55 participants were selected for the same. The participants were from in and around Delhi.

The delegates were from colleges, universities, research institutes, industries and regulating agencies. The scientific deliberations included lectures by resources persons and instrument demonstration.

The event was successfully coordinated by Dr. Shaqiquz Zaman and Dr. M. Mumtaz Alam under the patronage of Prof. M. Amir, Dean SPER. The pre-lunch session consisted of lectures by resources persons from Bruker and AIIMS. The post-noon session involved the hands-on training of the participants. Certificates were handed over to the participants at the end of the training session.

WORKSHOP ON APPLICATION OF NMR SPECTROSCOPY IN CHEMISTRY



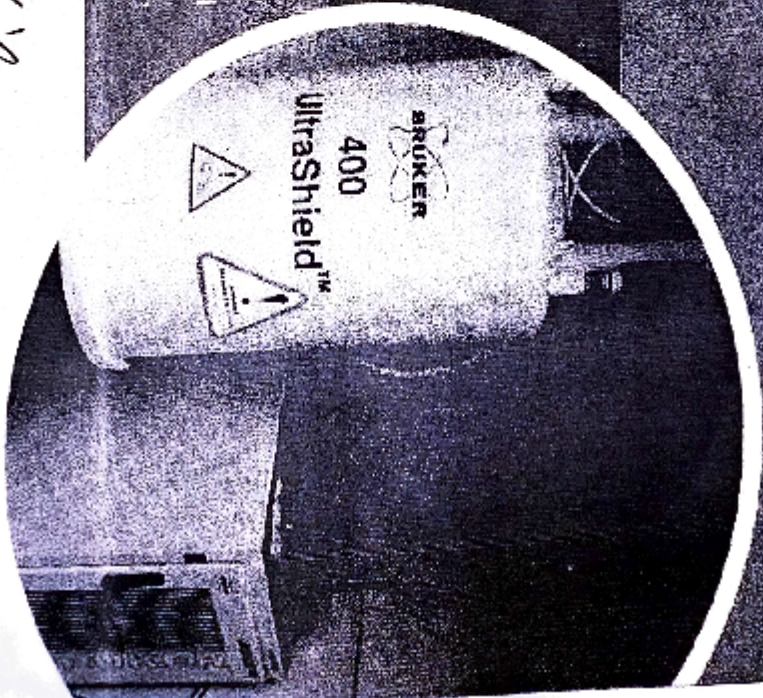
February 14, 2017

Department of Pharmaceutical Chemistry,

School of Pharmaceutical Education & Research (SPER)

Jamia Hamdard, New Delhi 110062

This is to certify that Dr./Ms./Mr. _____ participated in Workshop on Application of NMR Spectroscopy in Chemistry, organized by the Department of Pharmaceutical Chemistry, School of Pharmaceutical Education and Research, Jamia Hamdard as Delegate.



Dr. M. Shaquiyuzzaman

Joint Organizing Secretary

Prof. (Dr.) Mphd. Amir

Organizing Secretary

Hamdard Institute of Medical Sciences and Research and Associated HAH Centenary Hospital-62

Report on workshop

Venue: MEU room

Date: 25 Oct. 2018

Timing:

Total participants: 50

Title of workshop: A Hands-on Workshop on Biomedical Research
Methodology 2018

Resource persons: Dr Rambha Pathak, Dr Sushovan Roy, Dr Farzana Islam, Dr
Aqsa Sheikh, Dr Rashmi

Summary:

On 25th October this hands-on workshop was held to give practical knowledge regarding biomedical research which is essential now for every Medical graduate who will be going for faculty positions in future.



Group photo of participants and resource persons



Dr Rambha Pathak facilitating session



Dr Sushovan Roy presiding a session

Chair
Organizing secretary
Dr Rambha Pathak
Dr Farzana Islam
Prof & Head
Dept. of Community Medicine
HMSR, Hamdard Nagar, New Delhi

Dr Farzana Islam
Prof & Head
Dept. of Community Medicine
HMSR, Hamdard Nagar, New Delhi

Hamdard Institute of Medical Sciences and Research and
Associated HAH Centenary Hospital-62

Report on workshop

Venue: MEU room

Date: 28 Aug. 2018

Timing:

Total participants: 40

Title of workshop: Workshop on Demystifying Gender: Addressing Felt Need

Resource persons: Dr. Sanjay Sharma and Dr. Bela Sharma

Summary: Workshop on Demystifying Gender: Addressing Felt Need, at HIMSR on 28th August 2018. The workshop was facilitated by Dr. Sanjay Sharma and Dr. Bela Sharma of Association for Transgender Health in India. 30 participants comprising of a mix of students and faculty members and various specialties participated in this interactive and eye-opening session.



Participants interacting with each other

Ashaich
Organizing secretary
Dr. Aqsa Shaikh
(Dr. Aqsa Sheikh)
MD, DHRM
Assistant Professor
Dept. of Community Medicine
HIMSR, Jamia Hamdard
Reg. No.- 66477

Hamdard Institute of Medical Sciences and Research and
Associated HAH Centenary Hospital-62

Report on workshop

Venue: Conference hall, HIMSR

Date: 23 Feb. 2019

Timing:

Total participants: 40

Title of workshop: Workshop on use of Smart Apps in Health Professions education.

Resource persons: Dr Khan Amir Maroof, Dr Aqsa Sheikh, Dr Nazish Rashid.

Summary: Making Medical Education Smart: HIMSR (Department of Community Medicine) Conducted a Workshop to introduce use of smart apps in health professions education on 23rd February 2019.



Participants getting felicitated

Ashraich

Dr. Aqsa Shaikh
MD, DHRM
Assistant Professor
Dept. of Community Medicine
HIMSR, Jamia Hamdard
Reg. No.- 66477

Hamdard Institute of Medical Sciences and Research and
Associated HAH Centenary Hospital-62

Report on workshop

Venue: HIMSR

Date: 15-16 Mar. 2019

Total participants: 25

Title of workshop: Theater of the Oppressed - Reclaiming Humanity in
Medicine

Resource persons: Dr. Navjeevan Singh and Dr. Satendra Singh

Summary: The first activity under the Medical Humanities Group was The Theater of the Oppressed which was conducted on 15-16 March 2019 in collaboration with the Medical Humanities Group of UCMS, Delhi. The first TO workshop was conducted by Dr. Navjeevan Singh and Dr. Satendra Singh with around 25 participants.



Participants involved in activities

Dr. Aqsa Shaikh
Dr. Aqsa Shaikh
MD, DHRM
Assistant Professor
Dept. of Community Medicine
HIMSR, Jamia Hamdard
Reg. No.- 66477



Participants demonstrating what they have learnt



Dr Farzana Islam addressing the participants

Ashaich
Organizing secretary
Dr. Aqsa Shaikh
(Dr. Aqsa Sheikh)
MD, DHRM
Assistant Professor
Dept. of Community Medicine
HIMSR, Jamia Hamdard
Reg. No.- 66477

Hamdard Institute of Medical Sciences and Research and Associated HAH Centenary Hospital-62

Report on One Day National 2nd HIMSR JESS Workshop

Venue: Convention Centre, Jamia Hamdard.

Date: 06. July. 2019


Timing: 8:30

Total participants: 80

Title of workshop: 2nd HIMSR JESS Workshop

Resource persons: Prof. Shishir Rastogi & Prof. Ram Prabhoo.

Summary: On the preceding day of the 2nd Jess HIMSR workshop, was conducted. It was to teach the principles, basics and application of Jess fixator, the indigenious multipurpose external fixator. There were 6 faculty members from outside Delhi, which are renowned experts of this fixator. There were 80 delegates which participated in the workshop. It included series of lectures, followed by sessions of hands on workshop.



HIMSR
Hamdard Institute of Medical Sciences & Research

2nd HIMSR JESS WORKSHOP

6TH JULY 2019, SATURDAY

Patrons:
Prof. S.S. Anand (Dean, HIMSR)
Prof. Shishir Rastogi

Organizing Chairman: Prof. Sandeep Kumar
Organizing Secretary: Dr. Javed Jameel
Organizing Jt Secretary: Dr. Rajesh Arora
Organizing Jt Secretary: Dr. Arvind Kumar
Treasurer: Dr. Rizwan Khan

Executive Members :
Dr Yawar Haider, Dr. Mukesh Kumar

Department of Orthopaedics
Hamdard Institute of Medical Sciences and Research
&
HAH Centenary Hospital
Jamia Hamdard, New Delhi-110062

Programme
Saturday, 6th July 2019
Venue: Convention Centre,
Jamia Hamdard Campus,
Hamdard Nagar, M.B. Road, New Delhi - 62
Registration 8:30 am to 9:00 am

Introduction to JESS: Prof. Shishir Rastogi	09:00 am to 09:15 am
Philosophy of JESS: Dr. Ram Prabhoo	09:15 am to 09:30 am
Inauguration Function & High Tea	09:30 am to 10:30 am
Session 1: Upper extremity	
a. Fracture of proximal humerus:	Dr. Lokesh Maratha 10:30 am to 10:45 am
b. Fractures of hand & distal radius:	Dr. Javed Jameel 10:45 am to 11:00 am
c. Forearm Deformity Correction by JESS:	Dr. Sanjai Kr. Srivastav 11:00 am to 11:15 am
d. Video Demonstration	11:15 am to 11:30 am
e. Discussion	11:30 am to 11:45 am
f. Hands on workshop	11:45 am to 12:45 am
Lunch 12:45 pm to 01:30 pm	
Session 2 Lower Extremity	
a. Fractures of foot:	Prof. Arunim Swarup 01:30 pm to 01:45 pm
b. Tibial plateau fracture:	Dr. Sanjai Kr. Srivastav 01:45 pm to 02:00 pm
c. Tibial pilon fracture:	Dr. Lokesh Maratha 02:00 pm to 02:15 pm
d. Discussion	02:15 pm to 02:30 pm
e. Video Demonstration	02:30 pm to 02:45 pm
f. Hands on workshop	02:45 pm to 03:30 pm
g. My experience & improvisation with JESS :	Dr. Sanjay Dhawan 03:30 pm to 03:45 pm
h. CTEV+ Video Demonstration:	Dr. Lokesh Maratha 03:45 pm to 04:15 pm
i. Hands on workshop	04:15 pm to 05:00 pm
High Tea	05:00 pm

Email: doamidcon2019@gmail.com
www.delhiortho.org

Shishir Rastogi
Prof. S. Rastogi
Head of Department
Department of Orthopaedics
HIMSR & HAH Centenary Hospital
Jamia Hamdard

Organizing secretary/Head of Department

Hamdard Institute of Medical Sciences and Research and
Associated HAH Centenary Hospital-62

Report on workshop

Venue: HIMSR

Date: 10-11 Oct. 2021

Total participants: 30

Title of workshop: Workshop on Theater of the Oppressed at HIMSR – October 2019

Resource persons: Navjeevan Singh and Satendra Singh.

Summary: Forum Theater in Foundation Course, MBBS 2019

The students of MBBS 2019 were exposed to the Forum Theater as part of the Foundation Course. The same was facilitated by the Hamdard Humanities Group.



Participants actively participating and raising queries



Participants being felicitated

Ashaikh

Organizing secretary

(Dr Aqsa Shaikh)

Dr. Aqsa Shaikh
MD, DHRM
Assistant Professor
Dept. of Community Medicine
HIMSR, Jamia Hamdard
Reg. No.- 66477



Group photo of participants



Dr Khan Amir Maroof facilitating a session



Ashaikh
Organizing secretary

(Dr Aqsa Sheikh)

Dr. Aqsa Shaikh

MD, DHRM

Assistant Professor

Dept. of Community Medicine
HIMSR, Jamia Hamdard

Reg. No.- 66477

Hamdard Institute of Medical Sciences & Research and HAHC Hospital

Department of Pharmacology

Workshop Report

Title: Workshop cum Awareness Program on “Pharmacovigilance: A Tool to Ensure Patient Safety”

Date: 21.11.2019

Time: 10:00AM

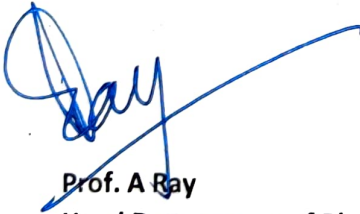
Venue: Lecture Theatre 1

Resource Persons: Prof. A Ray, Prof. Kavita Gulati, Dr Shoma, Ms Kajal

Total Participants: 80 [Faculty (50) & Residents (30)]

Workshop Summary:

A workshop cum awareness program on Pharmacovigilance was organized by the Department of Pharmacology, HIMSR to improve the pharmacovigilance activities in the HAHC Hospital to ensure patient safety. The workshop was sponsored by Indian Pharmacopoeia Commission (IPC), comprising of series of lecture by renowned faculty members and a hands on training on ADR reporting & causality assessment. The workshop was attended by 50 faculty and 30 residents. The workshop was very well received by the audience.



Prof. A Ray
Head Department of Pharmacology
HIMSR & HAHC

Hamdard Institute of Medical Sciences and Research and
Associated HAH Centenary Hospital-62

Report on four hours National Plaster Techniques: Basics &
Advanced Workshop

Venue: Department of Orthopaedics HIMSR.

Date: 03. March. 2020

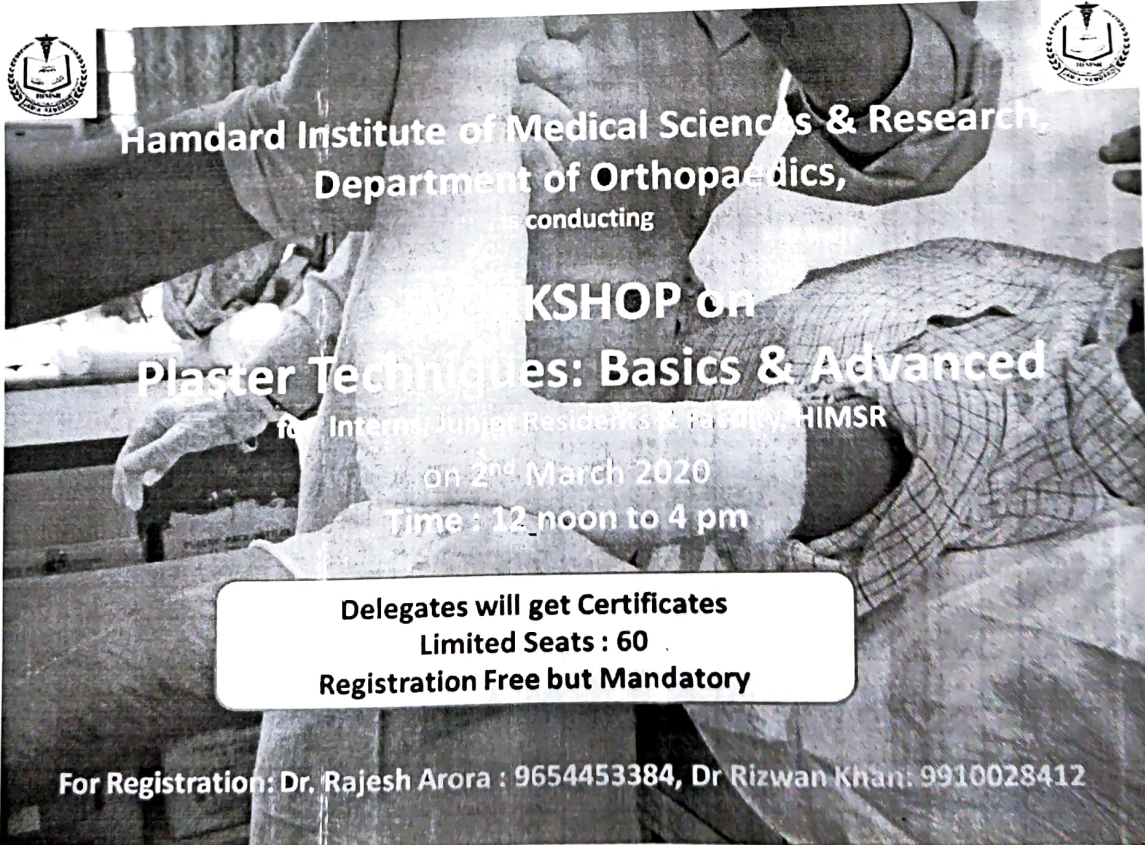
Timing: 12:00

Total participants: 60

Title of workshop: Plaster Techniques: Basics & Advanced Workshop

Resource persons: Samuel A. Brown, M.S, OTC (USA).

Summary: Orthopaedic Immobilization Techniques: A Step-by-Step Guide for Casting and Splinting is a step-by-step written and visual guide for the proper application and removal of the most commonly used orthopaedic casts and splints. Fundamental principles of plaster and fiberglass casts and splints and the associated complications of immobilization.

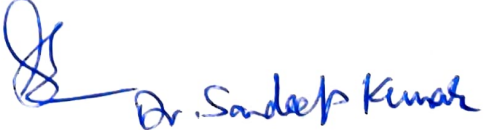


Hamdard Institute of Medical Sciences & Research,
Department of Orthopaedics,
is conducting

WORKSHOP on
Plaster Techniques: Basics & Advanced
for Interns, Junior Residents & Faculty HIMSR
on 2nd March 2020
Time : 12 noon to 4 pm

Delegates will get Certificates
Limited Seats : 60
Registration Free but Mandatory

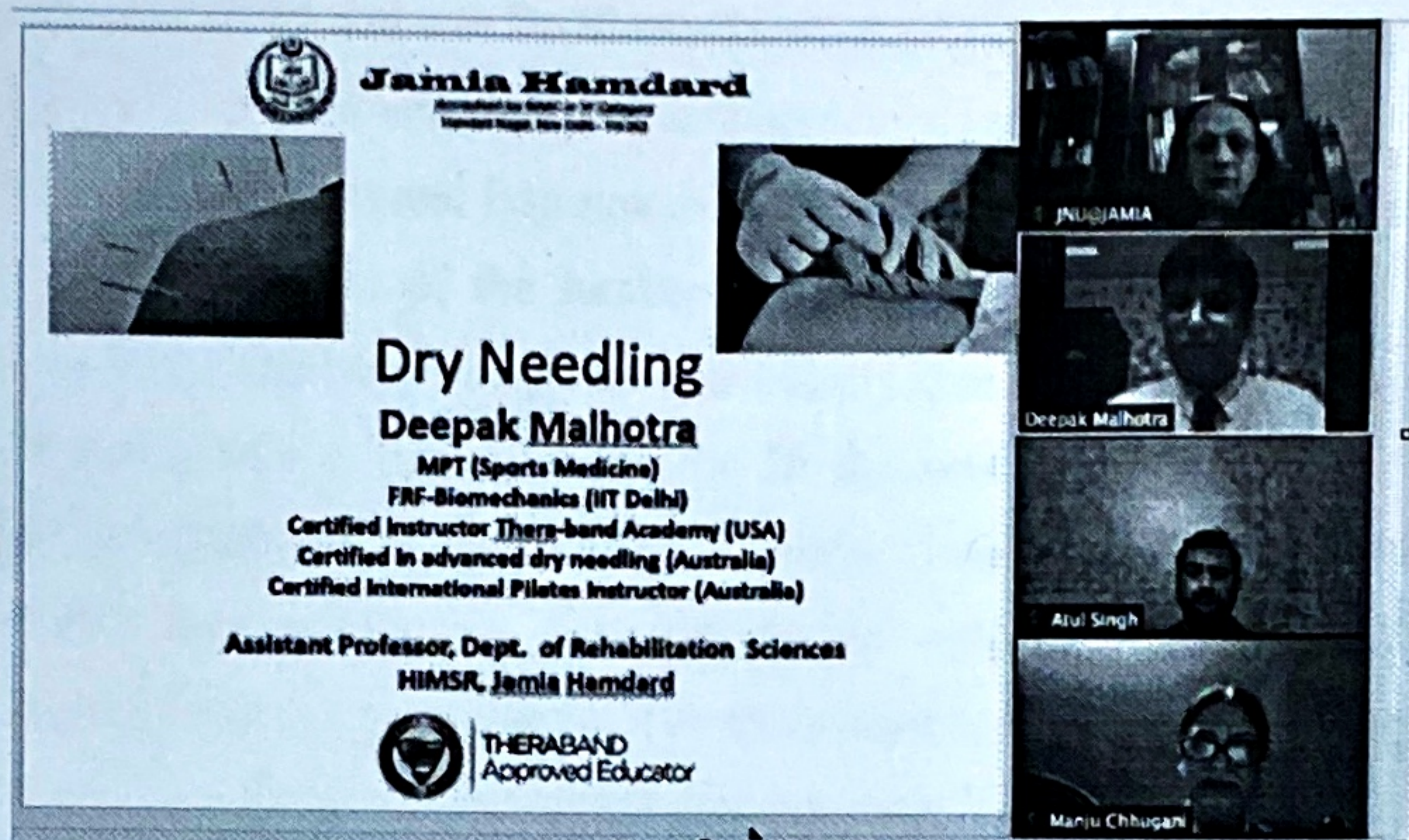
For Registration: Dr. Rajesh Arora : 9654453384, Dr Rizwan Khan: 9910028412


Dr. Sandeep Kumar

Organizing secretary/Head of Department

**Report of the Webinar
“Basic Concepts of Dry Needling”
&
“Examination and Manual Therapy of Lumbopelvic Complex”**

Date: 10th May 2020



Jamia Hamdard University organized a webinar focusing on modern scientific concepts in physiotherapy. A webinar on Modern Scientific Concepts in Physiotherapy with focus on “Basic Concepts of Dry Needling” & “Examination and Manual Therapy of Lumbopelvic Complex” was organized by Department of Rehabilitation Sciences, Jamia Hamdard (JH) in collaboration with Physiotherapy Department of Jaipur National University (JNU).

The webinar was attended by clinicians, academicians and students from all over India which were more than 500 in number. The webinar was addressed by the Head, Department of Rehab. Sciences, JH, Prof. Ona P Desai and Head, Department of physiotherapy, JNU, Dr Atul Singh. Dean, Prof. Dr Manju Chhugani addressed the participants with her words of encouragement and appreciation for all the attendees. They emphasized the importance of such webinars for the upliftment of the profession, especially during the lockdown wherein Jamia Hamdard is committed to utilizing all ICT platforms optimally, skilled development programs and also with the joint collaborations with universities and hospitals.

Two key sections of the webinar. The first session was on the introduction on the role of Dry Needling in Rehabilitation, which was taken over by Dr Deepak Malhotra (PT), Assistant Professor, Department of Rehabilitation Sciences, Jamia Hamdard. He enlightened

the students with the key principles of the technique and demonstrated the stepwise procedure for administration of the technique along with its precautions, indications and contraindications.

The second speaker of the day was Dr Himanshu Mathur (PT), Assistant Professor, JNU. He focused on the clinical assessment of the lumbopelvic spine and how a detailed assessment can lead to accurate diagnosis and faster recovery. He also demonstrated techniques of manual therapy to treat pathologies of the lumbopelvic spine. After the completion of both the sessions, the speakers answered questions regarding any queries related to the two topics.

The webinar ended with a vote of thanks by Dr Kalpana Zutshi (PT) to all the keynote speakers for sharing their valuable insights, Dr Prachi Tiwari (PT), Dr Nahid Khan (PT), Dr Sahar Zaidi (PT) for coordinating this webinar as well as the participants for their overwhelming response. The Department intends to organize more such webinars in future so that students can gain maximum knowledge and exposure.

Details of the links: "Basic Concepts of Dry Needling" & "Examination and Manual Therapy of Lumbopelvic Complex"

S. No.	Web Page Details	Link
1.	Flyer link on Jamia Hamdard website	http://jamiahamdard.edu/uploaded_files/SNSAH_Deepak.jpg
2.	India today news coverage	https://www.indiatoday.in/education-today/news/story/jamia-hamdard-organizes-national-level-webinar-on-modern-scientific-concepts-in-physiotherapy-1677531-2020-05-13
3.	India education diary web page	https://indiaeducationdiary.in/jamia-hamdard-organizes-a-national-level-webinar-on-basic-concepts-of-dry-needling-and-examination-and-manual-therapy-of-lumbopelvic-complex/
4.	Facebook Page of Jaipur National University	https://nep.facebook.com/jnucollegeofphysiotherapy/photos/a.1783548281964694/2600190753633772/?type=3
5.	Web page of Shiksha.com	https://www.shiksha.com/news/jamia-hamdard-organises-webinar-on-modern-scientific-concepts-in-physiotherapy-blogId-37325

Nishat Qudus

Nishat Qudus
Associate Professor
Physiotherapy Coordinator

Department of Rehabilitation Sciences School of Nursing Sciences and Allied Health

Jamia Hamdard
(DEEMED TO BE UNIVERSITY)

IN COLLABORATION
WITH

Department of Physiotherapy,
Jaipur National University, Jaipur

ORGANISES WEBINAR
ON

Topic #1

Basic Concepts
of
Dry Needling

Topic #2

Examination & Manu
Therapy of Lumbopel
Complex



SPEAKERS



Deepak Malhotra

Asst. Professor, Jamia Hamdard;
(Sports Medicine), FRF (IIT, Delhi)
Instructor, Therabandacademy, USA;
In Advanced Dry Needling, Australia

Dr. Himanshu Mat

Asst. Professor, Jaipur
National University;
MPT (Musculoskeletal)

Day; May 10th, 2020

Time: 02:30 to 04:30 PM

For Registration Contact:

Dr. Prachi Tiwari (For Jamia Ha
+919811644726

Dr. Sangeeta Patel (For JNU)

+919892616211



The 7th International Congress of Society for Ethnopharmacology, India **SFEC 2020**

Ethnopharmacology in Development of Scientifically Validated Quality
Products from Medicinal Plants and Regulatory Aspect

New Delhi, India
February 15-17, 2020

REPORT OF ICMR SPONSORED PRECONFERENCE WORKSHOPS

14TH FEBRUARY 2020

**DRUG DEVELOPMENT FROM MEDICINAL PLANTS: HPTLC
BIOAUTOGRAPHY AND GCMS METABOLOMICS**

Organized by

School of Pharmaceutical Education and Research

(NIRF 2019 Rank 1 Pharmacy School)

Jamia Hamdard

New Delhi, India

In association with

Society for Ethnopharmacology, India

Saktigarh, Jadavpur, Kolkata, India

www.ethnopharmacology.in



WORKSHOP REPORT PROCEEDINGS FORMAT

DHR-ICMR FUNDED WORKSHOP on “DRUG DEVELOPMENT FROM MEDICINAL PLANTS: HPTLC BIOAUTOGRAPHY AND GCMS METABOLOMICS”

1. Title of the Workshop	Drug development from medicinal plants: HPTLC bioautography and GCMS metabolomics
2. Venue	Jamia Hamdard
3. Date(s)	14 th February 2020
4. Name and details of Organizers involved	Dr. Sayeed Ahmad In Charge, Bioactive Natural Product Laboratory Associate Professor Department Of Pharmacognosy & Phytochemistry School Of Pharmaceutical Education & Research Jamia Hamdard, New Delhi 110062
5. Organized in collaboration with (institution/organization)	School of Pharmaceutical Education and Research (NIRF 2019 Rank 1 Pharmacy School) Jamia Hamdard New Delhi, India In association with Society for Ethnopharmacology, India Saktigarh, Jadavpur, Kolkata, India
6. Nature* and No. of attendance (*academic, public, government, etc.)	Academic, 120 attendees
7. Participation of attendants (Whether the research results were discussed with attendants and topics of discussions)	Yes, the research results were discussed and well explained to attendants. Drug development from medicinal plants: HPTLC bioautography and GCMS metabolomics

<p>8. Objectives</p>	<p>Translational and commercialization aspects of Botanicals and Medicinal plant products useful for development of Phytopharmaceuticals from enriched bioactive fractions as well as for repurposing of AYUSH drugs as per their modern scientific claims.</p>
<p>9. (a) Main results/outcomes as per objectives achieved or not (Specify if the research results were reported)</p>	<p>9 (a) Yes, the outcomes as per objectives were achieved.</p>
<p>9 (b) Details of Hands-on Training sessions & Panel discussions 9 (c) Major conclusions from the workshop</p>	<p>9 (b) Real time demonstration of HPTLC bioautography and GCMS metabolomics from enriched bioactive fractions obtained from medicinal plants useful in drug development as well as for repurposing of AYUSH drugs as per their modern scientific claims. Demonstration was done using freshly prepared samples on the equipment, provided a clear understanding of the insight principle, working and applications of instrument as well as the technique involved. The chemicals used were of AR grade. All the queries were resolved on the spot. Panel discussions included the various aspects of botanicals and medicinal plant products useful for development of phytopharmaceuticals from enriched bioactive fractions and the accurate working, and applications of the instrument.</p> <p>9 © The highlights of both the workshop were the</p>

	<p>enthusiasm of the participants as well as the determination of the speakers and demonstrators in keeping up with the energy and intellect of attendees. Each workshop witnessed the vibrant energy of the participants in gathering abundant scientific information regarding modern analytical techniques from the experts of analytical fields. The workshop was rightly coordinated and was a great success.</p>
<p>Media coverage - Type (press, radio, television) - Date(s) - Nature of report</p>	<p>Media Coverage for conference was held.</p>

***Name of the Organizing Secretary/Convener-
(With Signature and Stamp)***

Date:

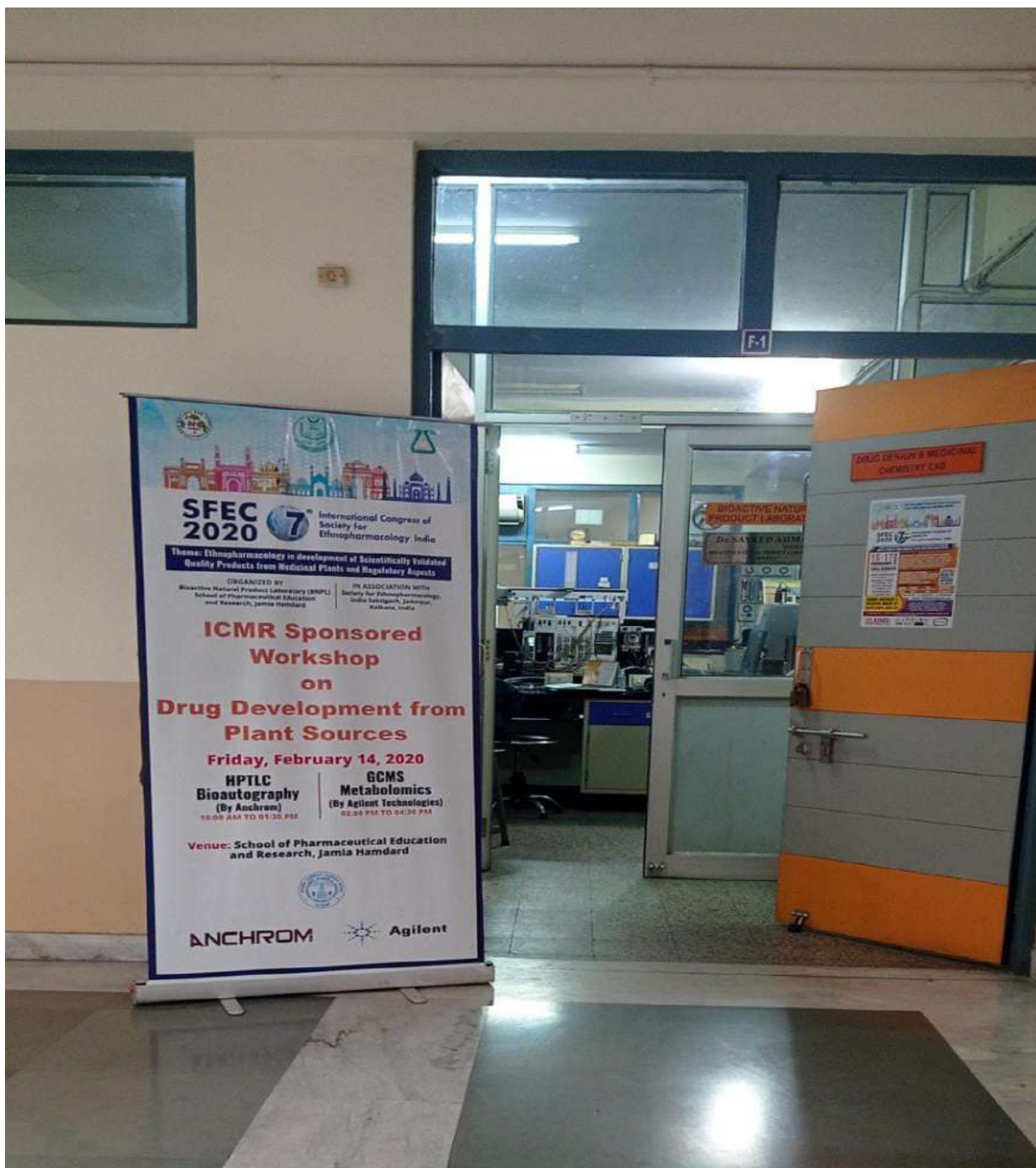
Place: New Delhi

1) Appendix-1: Event's program (and photos)

S.No		Timings	Speaker
1.	Registration	8:30-9:00	
2.	Introduction of the program	9:00-9:10	
3.	Welcoming of speaker with bouquet	9:10-9:20	Prof. Afrozul Haq and Dr. Gaurav Jain
4.	Powerpoint presentation on HPTLC bioautography and demonstration	9:20-1:00	Mr. Abhijeet khale
5.	Question and answer	1:00-1:20	Mr. Abhijeet khale
6.	Felicitation of speaker with certificate and memento as a token of appreciation	1:20-1:25	Prof. Afrozul Haq, Prof. Mohd. Mujeeb and Dr. Gaurav Jain
7.	Vote of thanks	1:25-1:35	Prof. Afrozul Haq
	Lunch at scholars house	1:35-2:30	

8.	Introduction of second workshop	2:30-2:45	
9.	Welcoming of speaker with bouquet	2:45-2:50	Prof. Mohd. Mujeeb and Dr. Rikeshwar
10.	Powerpoint presentation on GC-MS metabolomics and demonstration	2:50-4:00	Mr. Deepak Luthra and Saurabh Nagpal
11.	Question and answer	4:00-4:15	
12.	Felicitatation of speaker with certificate and memento as a token of appreciation	4:15-4:420	Prof. Mohd. Mujeeb and Dr. Rikeshwar
13.	Vote of thanks	4:20-4:30	Prof. Mohd. Mujeeb

Photos of pre congress workshop, organized on 14th February 2020, on Drug development from medicinal plants: HPTLC bioautography and GCMS metabolomics, sponsored by ICMR, organized by SPER, Jamia Hamdard, New Delhi in association with SFE, India.



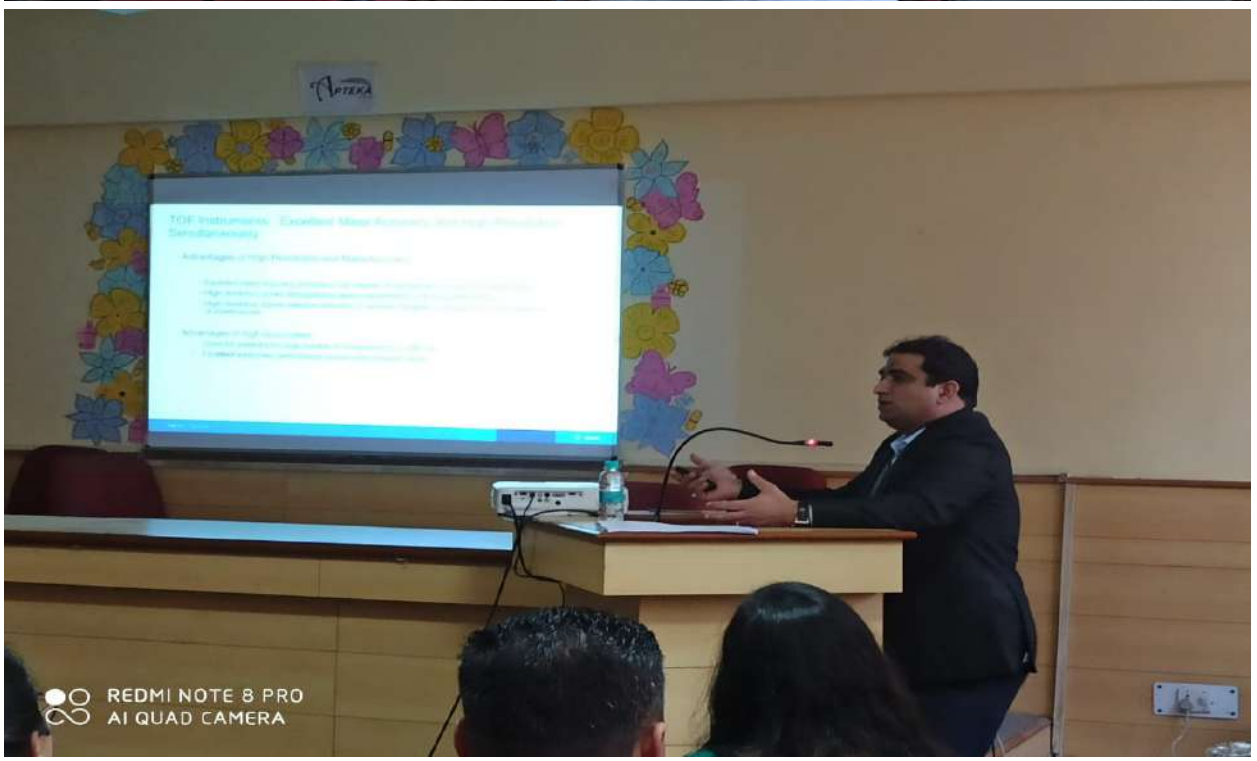
















2) Appendix-2: Final attendance list

ATTENDANCE LIST

Name	Title/position	Organization/Institute	Signature	Email ID
Aasif Farooq	M.Pharm	Jamia Hamdard	Enclosed	Enclosed
Abdul Quadir	B.Pharm	Jamia Hamdard		
Abdul Salam Ahmad	PhD	Jamia Hamdard		
Aboubaka Khalid	B.Pharm	Jamia Hamdard		
Afreen Afzal	PhD	Jamia Hamdard		
Afshan Khan	BUMS (MD)	Jamia Hamdard		
Ahmad khalid	B.Pharm	Jamia Hamdard		
Ahmad Nawed	B.Pharm	Jamia Hamdard		
Ainya	PhD	Jamia Hamdard		
Aisha Siddiqui	Assistant Professor	Jamia Hamdard		
Ajman Faheem	BUMS (MD)	Jamia Hamdard		
Aman Kumar Mahto	M.Pharm	Jamia Hamdard		
Anamika Rajput	M.Pharm	Jamia Hamdard		
Anisurrhaman	PhD	Jamia Hamdard		
Anuradha Mishra	PhD	Jamia Hamdard		
Anushka Jain	M.Pharm	Jamia Hamdard		
Areeba Anjum	BUMS	Jamia Hamdard		
Areeba insaf	PhD	Jamia Hamdard		
Asad ali	PhD	Jamia Hamdard		
Ayesha Ali	PhD	Jamia Hamdard		
Ayesha Sarwar	B.Pharm	Jamia Hamdard		
Azam		Jamia Hamdard		
Bharat Geol	M.Pharm	Jamia Hamdard		
Bisma Kaloo	PhD	Jamia Hamdard		
Deepak Singh	B.Pharm	Jamia Hamdard		
Dheyaa Rasool Mohsin	B.Pharm	Jamia Hamdard		
Disha Batta	M.Sc	Jamia Hamdard		

Dr. Abida Parveen	PhD	Jamia Hamdard		
Dr. Ahmad Khan	Assistant Professor	Jamia Hamdard		
Dr. Bushra Parveen	Post Doc	Jamia Hamdard		
Dr. Karishma Chester	Industry	R.B.		
Dr. Masood Shah Khan	Industry	R.B.		
Dr. Mohammad Maaz	Assistant Professor	Jamia Hamdard		
Dr. Mohd. Mujeeb	Professor	Jamia Hamdard		
Dr. Mohd. Vaseem	Assistant Professor	Jamia Hamdard		
Dr. Rabea Parveen	Post Doc	Jamia Hamdard		
Dr. Sayeed Ahmad	Associate Professor	Jamia Hamdard		
Dr. Shalini Kumari	Post Doc, CSIR-IGIB	Jamia Hamdard		
Faiz Qamar	B.Pharm	Jamia Hamdard		
Farhan Haider	B.Pharm	Jamia Hamdard		
Farheen	PhD	Jamia Hamdard		
Farzana Bano	M.Pharm	Jamia Hamdard		
Firdaus	PhD	Jamia Hamdard		
Forquan Namah	B.Pharm	Jamia Hamdard		
Gaurav	PhD	Jamia Hamdard		
Ginsen George	PhD	Jamia Hamdard		
Gulnar Fatima	BUMS	Jamia Hamdard		
Hafiz	PhD	Jamia Hamdard		
Harpreet Singh	B.Pharm	Jamia Hamdard		
Hazra Zainab	B.Pharm	Jamia Hamdard		
Heera Ram	PhD	Jamia Hamdard		
Humair Ali	M.Pharm	Jamia Hamdard		
Iihan Ahmad Khan	B.Pharm	Jamia Hamdard		
Ijhar Ahmad	PhD	Jamia Hamdard		
Intesaar	PhD	Jamia Hamdard		
Irfan Dar	PhD	Jamia Hamdard		

Kanchatra Bhanukiran	PhD	Jamia Hamdard		
Kudsiya Ashrafi	PhD, HIMSR	Jamia Hamdard		
Lakshay Singh	B.Pharm	Jamia Hamdard		
Lima Patel	PhD	Jamia Hamdard		
Lubna Abidin	B.Pharm	Jamia Hamdard		
Mariya Jahangir	B.Pharm	Jamia Hamdard		
Md. Noman	MD	Jamia Hamdard		
Mohd Ibrahim	PhD	Jamia Hamdard		
Mohd. Imran	PhD	Jamia Hamdard		
Mohd. Umar	B.Pharm	Jamia Hamdard		
Mohd. Umar	PhD	Jamia Hamdard		
Mohd. Umar Khan	PhD	Jamia Hamdard		
Mohd. Zafeer Nafees	MD	Jamia Hamdard		
Monalisha Samal	M.Pharm	Jamia Hamdard		
Mustafa Mohsin	B.Pharm	Jamia Hamdard		
Mustafa Mohsin	B.Pharm	Jamia Hamdard		
Nadeem Ahmad Sheikh	M.Pharm	Jamia Hamdard		
Nafaa Hasan Ali	PhD, HIMSR	Jamia Hamdard		
Neha	M.Pharm	Jamia Hamdard		
Omana	M.Pharm	Jamia Hamdard		
Parakh Basist	PhD	Jamia Hamdard		
Pavitra Solanki	PhD	Jamia Hamdard		
Prabhash Gupta	B.Pharm	Jamia Hamdard		
Prakash Kumar	M.Pharm	Jamia Hamdard		
Priyanka Baghi	PhD	Jamia Hamdard		
Puneet Narula	M.Pharm	Jamia Hamdard		
Raishal	PhD	Jamia Hamdard		
Ranjeet Kumar	B.Pharm	Jamia Hamdard		

Maddhesia				
Renu	PhD	Jamia Hamdard		
Rukaya	PhD	Jamia Hamdard		
Saba Yasmin	B.Pharm	Jamia Hamdard		
Sadia Iqrar	PhD, HIMSR	Jamia Hamdard		
Sagar Dhama	M.Sc	Jamia Hamdard		
Sageer	PhD	Jamia Hamdard		
Saima	B.Pharm	Jamia Hamdard		
Sara Usmani	M.Pharm	Jamia Hamdard		
Shagufi Nazar	M.Pharm	Jamia Hamdard		
Shaheda Parveen	PhD, HIMSR	Jamia Hamdard		
Shaheen Parveen	M.Pharm	Jamia Hamdard		
Shambhavi Patthak	M.Sc	Jamia Hamdard		
Sharmistha Samanta	PhD	Jamia Hamdard		
Shikha Bhardwaj	M.Pharm	Jamia Hamdard		
Shruti Mittal	B.Pharm	Jamia Hamdard		
Shubham Roy	M.Pharm	Jamia Hamdard		
Sima Akram Ibrahim	B.Pharm	Jamia Hamdard		
Sultan	PhD	Jamia Hamdard		
Swarna Dabral	PhD	Jamia Hamdard		
Swati	PhD	Jamia Hamdard		
Syed Naved Quadri	PhD	Jamia Hamdard		
Tanveer	B.Pharm	Jamia Hamdard		
Tarkeshwar Dubey	PhD	Jamia Hamdard		
Teena Markin	PhD	Jamia Hamdard		
Tohfa	M.Pharm	Jamia Hamdard		
Udaivir Singh Sara	PhD	Jamia Hamdard		
Umair Ali	B.Pharm	Jamia Hamdard		
Varsha Srivastav	M.Pharm	Jamia Hamdard		
Vikram	M.Pharm	Jamia Hamdard		
Vinaras Dawane	PhD	Jamia Hamdard		

Yasmin	B.Pharm	Jamia Hamdard		
Zakiya	M.Pharm	Jamia Hamdard		
Zeba	M.Pharm	Jamia Hamdard		
Zoya Mallick	PhD	Jamia Hamdard		
Zufika	PhD	Jamia Hamdard		

Annexure1: Images of complete attendance list of delegates for pre congress workshop, organized on 14th February 2020, on Drug development from medicinal plants: HPTLC bioautography and GCMS metabolomics, sponsored by ICMR, organized by SPER, Jamia Hamdard, New Delhi in association with SFE, India.

Pre-Congress Workshop
14 February, 2020
Auditorium, School of Pharmaceutical Education and Research
Jamia Hamdard, New Delhi-110062

S.N.	Name	Course	Department	Faculty/ Affiliation	Mobile No	Amount	HPTLC GCMS	SIGN
→ 1	Sultan	PhD	Ph ¹ cognosy	SPER	8587883147	1000	Both	✓
2	Gaurav	PhD	Ph ¹ cognosy	SPER	9760477960	500	GCMS	
3	Harpreet Singh	B.Pharm	Ph ¹ sciences	SPER	9910086769	500	HPTLC	
④ 4	SARA LISMANI	M.Pharm	Ph ¹ cognosy	SPER	9205157479	500	GC-MS	
5	Sima Akram Ibrahim	B.Pharm	-	SPER	7303909279	500	HPTLC	
6	Mustafa Mohsin	B.Pharm	-	SPER	8448610848	500	HPTLC	
7	Leakhash Gupta	"	"	SPER	9582460133	500	HPTLC	
8	Ranjeet Kumar Modhwa	B.Pharm	B.Pharm	SPER	6394251466	500	HPTLC	
9	Lubna Abidin	B.Pharm	"	SPER	09871493254	500	HPTLC	
10	Yasmin	B.Pharm	"	SPER	9979149229	500	"	
11	Tarvesh	B.Pharm	"	SPER	7407770786	500	HPTLC	
12	Ahmed Khalid	B.Pharm	"	SPER	701042164	500	HPTLC	
13	Aboubakar Nather Ahmad	"	"	SPER	9667860085	500	"	
14	Gulnaz Fatima	"	BUMS	SPER	9540910986	500	"	
15	Azeefa Anjum	"	BUMS	SPER	8447516676	500	"	A
16	Dr. Mohammad	Maaz	Assistant Prof	SPER	9891354059	500	"	

S.N.	Name	Course	Department	Faculty/ Affiliation	Mobile No	Amount	HPTLC/ GCMS	SIGN
17	Aishia Siddiqui	Post-Grad		JH	8512035725	500	HPTLC	
18	Ajman Faheem	BUMS (MD)		JH	9811856018	500	HPTLC	
19	Ajshar Khan	BUMS (MD)		JH	9811856018	500	HPTLC	
20	Faizwanj Namah	B.Pharm		JH	7503066463	500	HPTLC	
21	Dheyaa Rasool Mohsin	B.Pharm		JH	7428988154	500	HPTLC	
22	Ayesha Ali	M.D	BUMS	JH	9582672638	500	HPTLC	✓
23	MD. Norman	M.D	BUMS	JH	9891661727	500	HPTLC	✓
24	Mohd Zafar Najeer	M.D	BUMS	JH	7830478550	500	HPTLC	✓
25	Saima	B. Pharm		JH	6201830025	500	HPTLC	
26	Hazza Zainab	B. Pharm		JH	7905910217	500	HPTLC	
27	Ahmad Nawed	B. Pharm		JH	7836832319	1000	Both	
28	Saba Yasmin	B. Pharm		JH	9718521991	1000	Both	✓
29	Ayesha Saunav	B. Pharm		JH	797900504	500	HPTLC	
30	Masriya Jahangir	B. Pharm		JH	8126219355	500	HPTLC	
31	Abdulsalam Ahmed Muthanna	PhD		JH	9319121723	1000	Both	
32	Najia Hasan Ali	Ph D, HIMS		JH	8375847911	1000	Both	
33	Shaheda Parveen	Ph D		JM1	8251206545	1000	Both	
34	Kudsia Ahsanali	Ph D		JH	9750838735	1000	"	
35	Sadia Iqbal	Ph D		JH	971163924	1000	"	
36	Firdaus	"		"	7905299239	1000	"	
37	Syed Naved Qureshi	"		JH	9599061392	1000	"	
38	Anushka Jain	M. Pharm		JH	7128755456	500	GCMS	
39	Anamika Rajput	M. Pharm		JH	8467983070	500	GCMS	

S.N.	Name	Course	Department	Faculty/ Affiliation	Mobile No	Amount	HPTLC/ GCMS	SIGN
40	Mohammad Ujwal	B. Pharm	SPER	JH	8076291336	500	HPTLC	
41	Farhan Haider	B. Pharm	"	"	9871133768	500	HPTLC	
42	Abdul Qadir	"	"	"	9983700230	500	HPTLC	
43	Faiz Jangas	B. Pharm	SPER	JH	9122486398	500	HPTLC	
44	Omara	M. Pharm (GA)	SPER	JH	9643150856	500	GCMS	
45	Shaheen Parveen	"	"	"	9039624563	500	GCMS	
46	Faizana Parveen	M. Pharm (GA)	SPER	JH	8126116835	500	GCMS	
47	Nardaan Ahmad Sheikh	"	"	"	9730278601	500	GCMS	
48	Puneet Nazula	"	"	"	9034374364	500	GCMS	
49	Swarna Dabral	Ph D		JH		500	GCMS	
50	Dr. Shalini Kumar	Post-doc	CSIR-IGIB, Delhi		836870575	500	GCMS	
51	Shaguji Nazari	M. Pharm	SPER	JH	7011259500	500	GCMS	
52	Asif Farooq	"	"	"	8368239817	500	GCMS	
53	Shubham Roy	"	"	"	985111555	500	GCMS	
54	Aman Kumar Mahla	"	"	"	8750220805	500	GCMS	
55	Lakshay Singh	B. Pharm	"	"	9650871597	500	HPTLC	
56	Shawli Mittal	B. Pharm	"	"	8200247817	500	HPTLC	
57	Ishan Ahmed Khan	B. Pharm	"	"	9968573238	1000	Both	
58	Pavitra Solanki	Ph D	"	"	9585220319	500	GCMS	
59	Mustafa	B. Pharm	"	"	9871544909	500	HPTLC	
60	Sagar Dhama	M.Sc	SCLS	JH	7060731360	1800	Both	
61	Disha Batra	"	"	"	9999419634	1000	Both	
62	Shambhavi Pathak	"	"	"	991739706	1000	Both	
63	DEEPAK SINGH	B. Pharm	SPER	JH	7582733758	(37.500)	HPTLC	

	S.N.	Name	Course	Department	Faculty/Affiliation	Mobile No	Amount	HPTLC/GCMS	SIGN
1	63	Bharat Goel	M.Pharm		SPEER				
2	64	Gimsem George	PhD		SPEER	JH	9245642385	1500	GCMIS/HPLC
3	65	Heera Ram	PhD		BUMS	JH	-	Both	GCMIS
4	66	Ithar Ahmad	PhD		SPEER	"	-	Both	HPTLC
5	67	Kanchaha Bhanukiran	PhD		SPEER	"	-	Both	HPTLC
6	68	Kaishma Chatter	Industry		BUMS	RB	949992375	500	GCMIS
7	69	Lima Patel	PhD		"	JH	9811844737	500	HPTLC
8	70	M. Umar Khan	PhD		SPEER	JH	9245644930	500	GCMIS
9	71	Masood Shah Khan	Industry		SPEER	JH	8447373452	500	GCMIS
10	72	Prakash Kumar B	PhD		BUMS	RB	9970343981	500	GCMIS
11	73	Priyanka Bagzi	PhD		SPEER	JH	-	Both	++
12	74	Renu	"		"	"	-	Both	HPTLC
13	75	Sharmista Samanta	"		"	"	8562452165	500	HPTLC
14	76	Tarabharwar Dubey	"		"	"	7042706788	500	HPTLC
15	77	Teena Martin	"		"	"	9811727560	Both	++
16	78	Udairvir Singh Saxa	"		"	"	8588840377	500	HPTLC
17	79	Nimasa Dasgupta	"		"	"	9845642317	500	GCMIS
18	80	Anuradha Mishra	JRF	Biotech	SCLS		7464008111	1000	Both
19	81	Afsoon Afzal	Ph.D	Unani	SUPIER		8882590555	500	HPTLC
20	82	Dr. Mohd Mujeeb Professor		R. Chagnany	SPEER				
21	83	Dr. Mohd Vasim Joril			SPEER		8372965301		
22	84	Azeba Inaf	PhD		SPEER		9910272760	1000	BHL

S.N.	Name	Course	Department	Faculty	Mobile No	Amount	HPTLC/GCMS	SIGN
85	Bisma Kato	PhD	SPEER	J.H	8822352492	1000	Both	
86	Parakh	"	"	"	8434231562	"	"	
87	Vikram	M.Pharm	"	"	-	"	"	
88	Tahira	"	"	"	-	"	"	
89	Neha	"	"	"	-	"	"	
90	Zoya Mallick	"	"	"	-	"	"	
91	Infan Dae	PhD	SPEER	Jamia Millia	7006732839	"	"	
92	Sageer	"	"	"	9958031066	"	"	
93	Dr. Bushra	Post Doc	SPEER	J.H	-	"	"	
94	Dr. Abida	PhD	"	"	-	"	"	
95	Mohd. Umar	PhD	SPEER, BNL	"	9026786007	1000	"	
96	Azam	-	"	"	9868416074	1000	"	
97	Mohd. Ibrahim	PhD	"	"	9871142453	1000	"	
98	Raishel	"	-	Jamia Millia	8127106186	"	"	
99	Swati	"	-	"	9465121436	"	"	
100	Dr. Sayeed Ahmad	Associate Professor	SPEER	J.H	9891374647	"	"	
101	Dr. Reba Parveen	Post Doc	SPEER	J.H	-	"	"	
102	Dr. Ahmad Khan	Assistant Professor	"	"	-	"	"	
103	Hafiz	PhD	"	"	-	"	"	
104	Anisurrahman	PhD	"	"	-	"	"	
105	Mohd. Imran	PhD	"	"	-	"	"	

S.No	Name	Course	Department	Faculty	Mobile No	Amount	HPTC/GEMS	SIGN
106	Varsha Sivasan	M.Pharm	SFER	J.H	7379671155	1850	Both	Vand
107	Mohalika Samal	"	"	"	8447373430	1000	Both	Mohalika
108	Shikha	"	"	"	984225420	500	RC-ME	Shikha
109	Zeba	"	"	"	-	500	"	Zeba
110	Zakiya	"	"	"	-	500	HPTC	Zakiya
111	Asad Ali	"	"	"	-	500	HPTC	Asad
112	Mohd. Imran	Ph.D	"	Jama	7711429562	1000	Both	Imran
113	Intesam	Ph.D	"	Milka	-	500	CGMS	Intesam
114	Aina	"	"	"	9825461780	500	YEMS	Aina
115	Rukayaa	"	"	JH	-	500	CGMS	Rukayaa
116	Umali Ali	B.Pharm	"	JH	-	1000	Both	Umali
117	Humairi Ali	M.Pharm	"	J.H	8447373456	1000	"	Humairi
118	Zufika	M.Pharm	"	J.H	9872456029	1000	"	Zufika
119	faheen	"	"	JH	7042709638	1000	"	faheen
120	Isha	"	"	Jama Handard	-	1000 1000	" "	Isha



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कल्याण मंत्रालय, भारत सरकार
Indian Council of Medical Research
Department of Health Research, Ministry of Health
and Family Welfare, Government of India

No.3/1/3/Clinical Training/HRD/2019 (119)

Dated: 07.02.2020

To,
Dr. Sayeed Ahmad
In-Charge, Bioactive Natural product Laboratory
Associate Professor,
Dept. of Pharmacognosy & Phytochemistry,
School of Pharmaceutical Education & Research,
Jamia Hamdard, New Delhi-110062

Subject: Grant of financial assistance for organizing Workshop on Translational Approach of Drug Discovery from Medicinal Plants, scheduled to be held on 14th February 2020 at Convention Centre, Jamia Hamdard, New Delhi- reg

Sir/Madam,

Please refer to your application as received by ICMR on 26.11.2019 on the above mentioned subject.

The Director General of ICMR is pleased to sanction the grant of Rs. 50,000/- (Rupees fifty thousand only) to meet part of the expenditure for organizing the above mentioned workshop **(SUBJECTED TO: Submission of topics for all Speakers)** scheduled to be held on 14th February 2020 at Convention Centre, Jamia Hamdard, New Delhi.

Please send the following documents immediately for remitting the payment

1. Duly filled and signed Formal bill (copy enclosed) and Mandate form (copy enclosed) duly filled in for Rs. 50,000/-
2. Xerox copy of cancelled cheque.

After the Workshop is over please send the Utilization Certificate (UC- to be submitted in two copies), Statement of Expenditure (one original copy & one xerox) Audit Report and Proceedings Report in book, Workshop report (ONLY in the format given on ICMR website) within 2 months. The unspent balance, if any, from the sanctioned amount of Rs. 50,000/- should be refunded to ICMR by Cheque/DD in favour of Director General, ICMR, New Delhi.

This issues with the approval of the Competent Authority of ICMR.

Yours faithfully

(Mahesh Chand)

Admin. Officer

For Director General

Encl: Formats for Formal Bill, Mandate form & UC

- Copy to:
1. Accounts Section-I, ICMR.
 2. Head (HRD), ICMR.
 3. ISRM, ICMR.
 4. Guard File

वी. रामलिंगस्वामी भवन, पोस्ट बॉक्स नं. 4911,
असारी नगर, नई दिल्ली - 110 029, भारत
V. Ramalingaswami Bhawan, P.O. Box No. 4911,
Ansari Nagar, New Delhi - 110 029, India

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Fax: +91-11-26588662 | icmrnic.in

REPORT ON

POST SEMINAR ONE-DAY WORKSHOP ON GCMS METABOLOMICS

School of Pharmaceutical Education and Research, Jamia Hamdard (SPER), New Delhi, India organised post seminar one-day workshop on GCMS metabolomics on May 17, 2017. The workshop was sponsored by Agilent Technologies India Ltd.

The workshop aimed at exposing the participant GCMS through hands-on training. The participants learned the sample preparation, setting the instrumental parameters, sample injection, data acquisition and processing and data interpretation.

About 100 registration requests were received on the conference portal. Out of these about 30 participants were selected for the same. The participants were from in and around Delhi. The delegates were from colleges, universities, research institutes, industries and regulating agencies. The scientific deliberations included lectures by resources persons and instrument demonstration.

The workshop started by a welcome address by the Coordinator, Dr. Sayeed Ahmad. It was followed by the introductory lecture by Mr. Indrajeet Sen on the topic 'Basics of GCMS'. The other lecture on the topic 'Metabolomic workflow using GCMS and LCMS' was delivered by Mr. Saurabh Nagpal. The pre-demonstration session ended with a vote of thanks presented by Dr. Showkat R. Mir. The post-noon session involved the hands-on training of the participants. Certificates were handed over to the participants at the end of the training session.

Program Schedule:

Lecture 1: Basics of GCMS by Indrajeet Sen (Agilent technologies) 11:0 – 12.0 pm
Lecture 2: Metabolomic workflow using GCMS and LCMS by Saurabh Nagpal (Agilent technologies) 12:0 – 1.0 pm
Demo: GCMS analysis of metabolites by Indrajeet Sen & Saurabh Nagpal (Agilent technologies) 2:0– 5:0 pm

CO-ORDINATORS

Dr Sayeed Ahmad, Dr SR Mir

**Department of Pharmacognosy and Phytochemistry,
School of Pharmaceutical Education and Research, Jamia Hamdard,
New Delhi-110062**

POST SEMINAR ONE DAY WORKSHOP

on

GCMS METABOLOMICS

17TH MAY 2017



Organized By

Department of Pharmacognosy and Phytochemistry,
SCHOOL OF PHARMACEUTICAL EDUCATION AND RESEARCH,
JAMIA HAMDARD, Hamdard Nagar, New Delhi-110062

PROGRAM SPONSOR: AGILENT TECHNOLOGIES

Intellectual Property & Entrepreneurship Technology Transfer, IIT Delhi for Jamia Hamdard at Jamia Hamdard

Venue: SPER Auditorium First Floor Jamia Hamdard

Date: 25th February, 2020

Time: 2.30 p.m.

organized by Foundation of Innovation and





INTELLECTUAL PROPERTY & ENTREPRENEURSHIP
Organised by
Foundation of Innovation and Technology Transfer, IIT Delhi
for Jamia Hamdard at Jamia Hamdard



Intellectual Property & Entrepreneurship Program was organized by Foundation of Innovation and Technology Transfer (FITT), IIT Delhi at School of Pharmaceutical Education and Research, Jamia Hamdard on 25th February 2020. The program was attended by esteemed faculty members, M. Pharm students and Ph.D. research scholars. Prof. Javed Ali, In-charge, IP management Cell Jamia Hamdard welcomed the audience and enlightened them about the motive of this program.



The program commenced with a lecture on 'IPR and its relevance' by Ms. Deepika Dhar. She enlightened the audience about patents and its filing procedure, rights of patentee and the various acts pertaining to the pharmaceutical industry. She also emphasized on how collaboration of academia and industry will be advantageous for both the sectors in bringing the technology to commercial market. The informative session was then followed by question and answers.



The second session was by Dr. Ashutosh Pastor on 'Entrepreneurship: Support ecosystem and funding opportunities.' The session was very interactive and he specifically discussed the importance of bio entrepreneurship, its socio-economic impacts and the various challenges associated with it. Prof. Sanjula Baboota expressed her vote of thanks to both the speakers for giving their valuable time to the institute and sharing their knowledge with the audience and also motivated the students for future goals.



MOOT COURT COMMITTEE
HAMDARD INSTITUTE OF LEGAL STUDIES & RESEARCH (HILSR)
SCHOOL OF LAW
JAMIA HAMDARD

Organises

**2 DAY WORKSHOP
ON
MOOTING AND
ADVOCACY SKILLS**

Date:-25th-26th October 2021

Venue:-Online

Speaker: Adv. Mohd Yasin

Topics to be covered:

Day 1

Session 1; 2pm-3pm:- Mooting and Advocacy

Session 2; 3pm-4pm:- Reading and Researching the Moot Problem

4pm-4:30pm:- Q&A Session

Day 2

Session 1; 2pm-3pm:- Drafting a Moot Memorial

Session 2; 3pm-4pm:- The Art of Oral Argument

4pm-4:30pm:- Q&A Session



Chief Patron

Prof. (Dr.) M. Afshar Alam
Hon'ble Vice Chancellor, Jamia Hamdard

Patron

Prof. (Dr.) Saleena K. Basheer
Professor of Law, HILSR

Faculty Coordinator

Burhan Majid
Assistant Professor of Law, HILSR

Student Organisers

Tushar Batra
Sakshi Singh

**E-Certificate of Participation shall be given only to Registered Participants.
Last Date to Register is 24th October 2021.
The Workshop is open to only students of HILSR.**

Detailed Report:

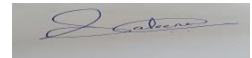
School of Law, Hamdard Institute of Legal Studies and Research organized a “Two Day Workshop on Mooting and Advocacy Skills”. The objectives of the workshop was to:

- Enlightening students with mooting and advocacy skills.
- To make students know about the art of oral arguments and the importance of reading and researching for drafting a moot memorial.

The School aims to inculcate the art of mooting and advocacy skills among the students who are

the budding advocates. The context of the practice is to educate and help students learn the way of reading and researching for moot problem and to learn the etiquette and style of mooting. HILSR has been working towards spreading legal knowledge among students by conducting interactive workshops. In this two days workshop, day-1 focuses on the drafting of a moot memorial and day-2 focuses on the art of oral arguments. It helped the students to discuss with the resource person and clarify their doubts regarding the concerned topic. Resource person also encouraged them to participate in moot court competitions.

Signed by the Competent Authority



Prof. (Dr.) Saleena K. Basheer
Dean
School of Law
HILSR
Jamia Hamdard
New Delhi



**MOOT COURT COMMITTEE
HAMDARD INSTITUTE OF LEGAL STUDIES & RESEARCH (HILSR)
SCHOOL OF LAW
JAMIA HAMDARD**

Organises
**ONE DAY WORKSHOP
ON**

LEGAL RESEARCH AND WRITING

17th November 2021 || 12:30 PM Onwards || Virtual



Dr. Manwendra Kumar Tiwari
Associate Professor of Law
Dharmashastra National Law University

Only Students of HILSR are eligible to Participate

Chief Patron
Prof. (Dr.) M. Afshar Alam
Hon'ble Vice Chancellor
Jamia Hamdard

Patron
Prof. (Dr.) Saleena K. Basheer
Dean, School of Law

Faculty Convener, MCC
Burhan Majid
Assistant Professor of Law

Student Organisers
Sakshi Singh
Tushar Batra

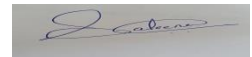
Detailed Report:

School of Law, Hamdard Institute of Legal Studies and Research organized “One Day Workshop on Legal Research and Writing”. The objectives of the Workshop were to:

- Excel students in the field of legal research and writing.
- Develop understanding of methodology of legal research.

The aim of the programme was to make the students mindful of how to research properly and develop a habit of writing research paper in the field of legal studies. The School of Law organized this workshop to enlighten students with the skills of legal researching and writing. The Department invites a very intellectual resource person who emphasis more on to have a critical and interpretative approach while writing a research paper. It helped the students to discuss and clarify their doubts regarding legal research and writing. Resource person also encouraged them to publish their research work.

Signed by the Competent Authority



Prof. (Dr.) Saleena K. Basheer
Dean
School of Law
HILSR
Jamia Hamdard
New Delhi

TWO-DAY NATIONAL WORKSHOP ON “PROCEDURAL AND SUBSTANTIVE ASPECTS OF COPYRIGHT AND PATENT” IN COLLABORATION WITH CELL FOR IPR PROMOTION AND MANAGEMENT (CIPAM), A GOVT. OF INDIA UNDERTAKING, ON 25TH-26TH NOVEMBER 2021

Detailed Report:

School of law, Hamdard Institute of Legal Studies and Research, Jamia Hamdard has organized a two days National Workshop (Online) on “PROCEDURAL AND SUBSTANTIVE ASPECTS OF COPYRIGHT AND PATENT” IN COLLABORATION WITH CELL FOR IPR PROMOTION AND MANAGEMENT (CIPAM), A GOVT. OF INDIA UNDERTAKING, ON 25TH-26TH NOVEMBER 2021, Thursday and Friday. About 200 participants attended the workshop on both the days.

On 25th November 2021, Mr. N. Subramanian, Assistant Manager, CIPAM was the resource person. He discussed about the various substantive aspects and procedure of registration of Patent and Copyright prevalent in India. The session was followed by a Question-and-Answer session between the participants and resource person.

On 26th November 2021, Mr. Hemant Thadani, IP Practice Head, M/s Crawford Bayley & Co. Assistant Manager, CIPAM was the resource person. He discussed about the Infringement and Enforcement of Patent and Copyright in India. The session was followed by a Question-and-Answer session between the participants and resource person.



Figure 1 25th and 26th November 2021

Patent Application

Provisional Specification -- Made even before the full details of working of the invention are developed (Secure Priority date)

➔

Complete Specification -- Full details of the invention and claim section

Patent Drafting-India

PATENT SPECIFICATION	
Description	Claims
<p>Discusses the details of the invention for which protection is sought</p> <ul style="list-style-type: none"> • To reflect that invention is: <ul style="list-style-type: none"> -novel -inventive -industrially applicable -patentable under India Patent Law 	<p>Defines the legal boundaries of the invention for which protection is sought</p> <ul style="list-style-type: none"> • Operative part of the specification • Define the metes and bounds of the invention: at the time of infringement proceedings, only claims will be interpreted

Jurisdiction for suits relating to infringement of a patent

5

- ▶ Which court?
- ▶ Where?
- ▶ Section 104:- A suit for infringement can be filed in any not being inferior to a district court having jurisdiction to try the suit.
- ▶ If such a suit is filed and defendant files a counter claim pleading that the suit patent is invalid, then such suit shall be transferred to the high court
- ▶ Section 20 of the Civil Procedure Code, 1908
 - patentee can bring the suit for infringement in the court which has jurisdiction in the area where:-
 - the defendant resides or
 - carries business or
 - personally works for gain, or
 - where the infringing activity is taking place.

Damages/Account of Profits (contd.)

13

- Two essential principles in valuing damages:
 - i. Plaintiff has the burden of proving its loss
 - ii. Object should be to compensate the plaintiff, not punish the defendants.
- Where a plaintiff elects to claim the profits made by unauthorized use of his intellectual property, it is material to ascertain how much of his Intellectual property was actually appropriated; to determine net profits realized by the infringer was attributable to its use.
- Unreasonable to give the plaintiff profits not earned by use of his intellectual property.

Jurisdiction or place of suing in copyright matters

38

- ▶ Section 62
 - ▶ Ordinarily place of suing is decided as per Section 20 of Code of Civil Procedure, i.e.
 - ▶ where the defendant resides or
 - ▶ carries on business or
 - ▶ where the cause of action has arisen.
 - ▶ But a special provision was inserted in the act to enable the artists and creators to initiate a civil action before a court where they reside or carry on business or work for gain.

Signed by the Competent Authority

Prof. (Dr.) Saleena K. Basheer
 Dean
 School of Law
 HILSR
 Jamia Hamdard
 New Delhi



MOOT COURT COMMITTEE (MCC)
HAMDARD INSTITUTE OF LEGAL STUDIES & RESEARCH (HILSR)
SCHOOL OF LAW
JAMIA HAMDARD

ONE DAY WORKSHOP ON HOW TO DRAFT A MEMORIAL?



SPEAKER: ADV. MOHD YASIN

20th December 2021 || 12PM onwards || Virtual

|| The Session is open only for HILSR students ||

The Link for the session will be shared one day prior to the event.

Chief Patron
Prof. (Dr.) M. Afshar Alam
Hon'ble Vice Chancellor, Jamia Hamdard

Patron
Prof. (Dr.) Saleena K. Basheer
Dean, School of Law

Faculty Convener, MCC
Burhan Majid
Assistant Professor of Law, HILSR

Student Convener, MCC
Sakshi Singh
Tushar Batra

Detailed Report:

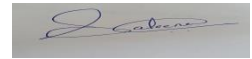
School of Law, Hamdard Institute of Legal Studies and Research organized “One Day Workshop on How to Draft a Memorial?” The objectives of the workshop were to:

- Enlighten students about the importance and need of drafting a good memorial.
- Help the budding advocates get an idea of how to draft a memorial in the real courts.

The School aims to make students know about the art of drafting a memorial and the importance of reading and researching for drafting a good memorial. Even though there is a

difference between the written submission of the moot court memorial and that of the real court but the true fact about making a memorial is a genesis of making an argument remains the same so if you start working rigorously on moot court memorial so that is going to help you for the real courts. HILSR has been working towards making the students aware of the benefits and importance of drafting a moot court memorial. This workshop focused on the drafting of a moot memorial that would help the budding advocates in their professional life. It helped the students to understand the importance of drafting a moot memorial. And also gave them a platform where they could discuss with the resource person and clarify their doubts regarding the concerned topic. Resource person also encouraged them to participate in moot court competitions.

Signed by the Competent Authority



Prof. (Dr.) Saleena K. Basheer
Dean
School of Law
HILSR
Jamia Hamdard
New Delhi

SCHOOL OF NURSING SCIENCES & ALLIED HEALTH
RUFaida COLLEGE OF NURSING
JAMIA HAMDARD (DEEMED TO BE UNIVERSITY)



**WORKSHOP
ON
EVALUATION AND MEASUREMENT
IN
NURSING EDUCATION**

2ND & 3RD MARCH 2021



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ACKNOWLEDGEMENT

I am delighted to acknowledge that Faculty Development Programme on “**Evaluation and Measurement in Nursing Education**” was a great success. The workshop has provided in depth knowledge to the teachers regarding various evaluation and measurement techniques which can be used in teaching-learning process. National and international resource persons were invited for the workshop.

I would like to appreciate hard work and commitment of my team at Rufaida College of Nursing, which led to the successful completion of this workshop.

The workshop was inaugurated by Prof. (Dr.) M. A. Jafri, Hon’ble Vice-Chancellor Jamia Hamdard. We are thankful to him for his direction, guidance and support extended to us.

I would like to express my heartfelt gratitude to Prof. Ona P. Desai, Dean, SNSAH, for her support and co-operation. She gave us motivation and support to conduct this programme.

I would like to thank each and every esteemed speaker, who gave us their valuable time and made this workshop a grand success and a rich learning experience for the participants.

I would like to mention hard-work of non-teaching staffs and all others who tirelessly supported us during this venture.

I would like to thank Almighty God for guiding us and enlightening us with knowledge and wisdom.

Ms. Veena Sharma
Chairperson
Principal, Rufaida College of Nursing
SNSAH, Jamia Hamdard

ORGANIZING COMMITTEE MEMBERS OF THE FACULTY DEVELOPMENT PROGRAM

Committee	Name of Teaching Faculty
Patron	Prof. Ona P. Desai Dean, SNSAH
Chairperson	Ms. Veena Sharma Principal, Rufaida College of Nursing
Organizing Secretary	Ms. Anjali Kaushik Mr. Naseem M.
Committee Members	
Finance	Ms. Seema Rani Ms. K Rebika Devi
Programme Schedule	Ms. Seema Rani Ms. Bindu Shaiju Ms. Anjali Kaushik Mr. Naseem M.
Registration, Invitation & Certificate	Ms. Somibala Thokchom Ms. Rashmi Ms. Renu
Pre-Test & Post-Test	Ms. Gifty Bijoy Ms. Rajlaxmi
Refreshment	Ms. Jamal Fatima Ms. Sartaj Parveen Ms. Saba Hashmi Ms. Vandana Dagar
Banner	Ms. Mikki Khan Ms. Deepali Gupta
Hall Arrangement & AV Aids	Mr. Eke Lama Tamang Ms. Uzma Anjum Ms Babita Bisht Ms. Shaheen Khan
Anchoring	Ms. Jahanara Rahman Dr. Shilpi Sarkar
Resource Person Coordination	Ms. Bindu Shaiju Ms. Anjali Kaushik
DNC Credit hour Processing	Mr. Naseem M. Ms. Nahid Zebi
Documentation & Photography	Ms. Fareha Khan Ms. Anju Ms. Suchhanda Bhattacharya Ms. Saliqua Sehar

RESOURCE PERSON OF THE WORKSHOP

Day I: March 02, 2021

Day II: March 03, 2021



Dr. Monica Auplish
Associate Professor
IP University
New Delhi



Dr. Deepika C. Khakha
Associate Professor
AIIMS, New Delhi



Ms. Seema Rani
Associate Professor
Rufaida College of Nursing
SNSAH, Jamia Hamdard
New Delhi

+



Prof. (Dr.) Raminder Kalra
Principal
Holy Family College of Nursing
New Delhi

Dr. Vanita Anand
Assistant Professor
Maharaja Surajmal Institute
GGSIU, New Delhi



Ms. Bindu Shaiju
Associate Professor
Rufaida College of Nursing
SNSAH, Jamia Hamdard,
New Delhi



Prof. (Dr.) Manju Chhugani
Former Dean & HOD- OBG Nursing
& Paramedical Sciences,
SNSAH, Jamia Hamdard
New Delhi



Ms. Veena Sharma
Principal
Rufaida College of Nursing
SNSAH, Jamia Hamdard
New Delhi



Dr. Shivkanya Fuloria
Associate Professor
Dept. of Pharmaceutical
Chemistry
AIMST University, Malaysia



INAUGURAL CEREMONY

The inaugural ceremony began with the welcome address by Prof. Ona P. Desai, Dean, School of Nursing Sciences & Allied Health. She welcomed all the guests, speakers and participants to the two days Faculty Development **Programme on Evaluation & Measurement in Nursing Education**.

The unfolding of the theme was done by Ms. Veena Sharma, Principal, Rufaida College of Nursing, SNSAH, Jamia Hamdard. She informed that the idea of organizing the workshop came while working on the moderation of question papers and it was felt that brushing up of the knowledge and skill for evaluation and measurement is required for the faculty members.

The keynote address was given by Prof. (Dr.) M. A. Jafri, Hon'ble Vice Chancellor, Jamia Hamdard. He appreciated the efforts of the organizers for the Faculty Development Programme. He emphasized the importance to conduct such workshops on a regular basis so as to improve the quality of education. He also said that the theme is very relevant in the current scenario of education during Covid 19 pandemic.

Report of eco-club for the year 2020 was also released by the dignitaries.

In the end, vote of thanks was proposed by Ms. Anjali Kaushik, Organizing Secretary of the workshop.



DAY 1: March 2, 2021

SESSION I- CONCEPTS, PRINCIPLES AND MODELS OF EVALUATION

Dr. Monika Auplish started her session by highlighting on the meaning and importance of evaluation. Evaluation is a process of collecting information on the basis of which judgments are formed, which in turn are used for taking decisions. Therefore, three phases of evaluation are: **Information gathering, Forming judgments and Making decisions**. She discussed about principles of evaluation. She further stated that there are different models of evaluation.

CIPP Evaluation Model is developed by Daniel Stufflebeam. CIPP is an acronym for- Context, Input, Process and Product.

Kirkpatrick's Four Level Model- According to this model, evaluation should always begin with level one, and then should move subsequently through levels two, three,

and four. She stated that the Kirkpatrick Model is probably the best known model for analyzing and evaluating the results of training and educational programs.

SESSION II- BLOOM'S TAXONOMY OF EDUCATIONAL OBJECTIVES

Dr. Monika Auplish described about Bloom's Taxonomy of Educational Objectives, given by Benjamin Bloom, an educational psychologist in 1956. She pointed that Bloom's Taxonomy is a hierarchical order of cognitive skills that helps teachers teach and students learn. She has explained about three domains named as cognitive, Affective and Psychomotor domains. She stated that blooms taxonomy was revised by Lorin Anderson in 1990 which is now widely used.

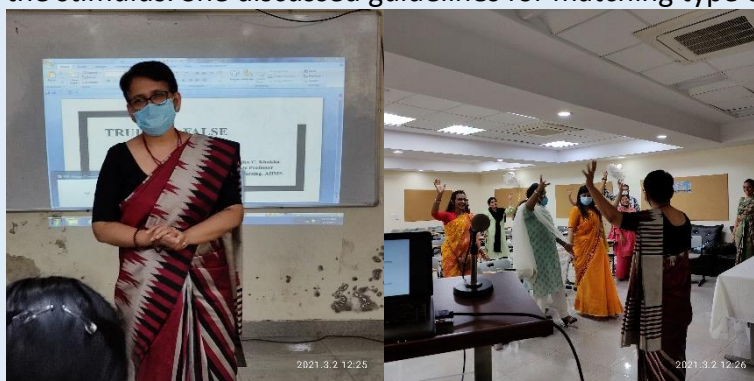


SESSION III- CONSTRUCTION OF OBJECTIVE TYPE TESTS - MCQS AND MRQ

(Construction of Objective type tests, True or False and Match the following)

Dr. Deepika Khakha started her session with an ice breaking activity. She emphasized that high quality assessment is essential in all assessments. She explained about guidelines and advantages of true -false questions. A true or false items can be written in any of the three forms: simple, complex or compound. Answer can consist of two choices (simple), more than two choices (complex), or two choices plus a conditional completion response (compound).

She stated that in matching type of questions we have to match column of terms (stimuli) on the left side of the work sheet with another column of terms (responses) on the right. For each stimuli term, there is a response term that somehow relates to the stimulus. She discussed guidelines for matching type of questions.



SESSION IV- SKILL SESSION I- CONSTRUCTION OF OBJECTIVE TEST (GROUP ACTIVITY AND DISCUSSION)

Ms. Seema Rani conducted an activity on construction of objective test. The participants were divided in four groups and they were given a subject to make the questions. They were asked to construct different types of objective test like MCQ'S, Matching items, Fill in the blanks, true-false items in given time. Later these questions were evaluated on the basis of given criteria.



SESSION V- ITEM ANALYSIS

Prof. (Dr.) Raminder Kalra reflected on item analysis which is a process which examines student responses to individual test items in order to assess the quality of those items and of the test as a whole. She explained about characteristic of Item Analysis i.e. Difficulty Value and Discriminating Power.

She discussed about various formulas and calculation of difficulty level and discrimination index. She explained further about process of item analysis.

SESSION V- SKILL SESSION II- PERFORMING ITEM ANALYSIS

Ms. Seema Rani led the group activity and discussion where participants were actively engaged in performing item analysis.



DAY 2: March 3, 2021

SESSION I- CONSTRUCTION OF SHORT ANSWER TYPE QUESTIONS

Dr. Vanita Anand enlightened upon the construction of short answer questions. It is typically composed of a brief prompt that demands a written answer varying in length from one or two words to a few sentences but usually short. In contrast to objective type tests, these are most often used to test basic knowledge of key facts and terms as well as can also be used to test higher thinking skills, including analysis or evaluation.

Short answer questions (SAQs) tend to be open-ended questions and can be used in both formative and summative assessment. SAQs may take a range of different forms such as short descriptive or qualitative single sentence answers, diagrams or graphs with explanations, filling in missing words in a sentence, list of answers.

The common terms used in construction of short answer questions are- define, enumerate, enlist, classify, differentiate etc.



SESSION II- CONSTRUCTION OF ESSAY TYPE QUESTIONS

After SAQs, Dr. Vanita discussed the long answer questions or what we say essay tests which are still commonly used as tools of evaluation. These are used when certain outcomes of learning e.g. organizing, summarizing, integrating ideas and expressing are to be evaluated which cannot be satisfactorily measured through objective type tests. An essay test may give full freedom to the students to plan their own answer and to explain it in their own words with considerable freedom to select, organize and present ideas providing a better indication of real achievement in learning, providing a clue to nature and quality of the pupil's thought process, whether the manner of presentation is coherent, logical and systematic, and how they concludes. In other words, the answer of the pupil reveals the structure, dynamics and functioning of pupil's mental life.

Essay type questions may seek selective recall, evaluative recall, comparison, decision—for or against, causes or effects, summary of some unit of the text or of some article, analysis, statement of relationship and application of rules or principles in given situations.

The main advantages of essay tests are easy to prepare, administer and usable in all subjects. Limitations include no scope for larger sampling of the content, encourage selective reading, scoring may be affected by a number of variables like spelling, handwriting, grammar, length of the answer etc., mood of the examiner, inter and intra examiner variability and halo effect.

SKILL SESSION III & IV- SHORT ANSWER & LONG ANSWER TYPE QUESTION CONSTRUCTION (GROUP ACTIVITY AND DISCUSSION)

Skill session was conducted by Ms. Bindu Shaiju, Associate Professor, Rufaida College of Nursing. The participants were divided into four groups and were assigned to make short answer questions and long answer questions on a given subject. The participants constructed short answer and long answer type questions in given time period as per the norms of test construction. The questions were critiqued on the basis of standard criteria and the shortcomings were discussed in detail. Ms. Bindu Shaiju shared a standard checklist for assessing the short answer questions and long answer questions. This session encouraged the members to actively participate and discuss their issues while constructing short answer and long answer type questions.



QUIZ- (MODELS OF EVALUATION, BLOOM`S TAXONOMY OF EDUCATIONAL OBJECTIVES & CONSTRUCTION OF OBJECTIVE TYPE TESTS)

A quiz was organized by Mr. Eke Lama Tamang, Assistant Professor, Rufaida College of Nursing, on models of evaluation, bloom`s taxonomy and construction of objective type tests. The participants were divided into four groups and were asked to select five chits depicting the question numbers to be asked. Questions were asked from them as per the number given on their chit. The participants were very excited and gave their best possible answers to win the quiz.



SESSION III- OSCE AS A CLINICAL EVALUATION TOOL

Prof. (Dr.) Manju Chhugani started her session by highlighting the importance of OSCE (Objective Structured Clinical Examination), an assessment of skills carried out in a well-planned, structured and objective way which is used increasingly in nurse education now a days, as nursing is a practice based profession, it is essentially required to assess students' clinical skills. The construction of an OSCE requires the preparation of checklists and skill stations for each skill to be evaluated. Steps to prepare an OSCE includes identification of competencies to be evaluate, deciding an activity that addresses each of the competency and mapping out the plan of the stations. A predesigned series of stations (usually 10-20 stations) where students rotate and answer questions orally /written or perform assigned task in the given time limit (e.g. BP monitoring of a standardized patient) while being observed using standard checklists by trained evaluators at each stations.

At the end of the session, Prof. (Dr.) Manju Chhugani organised a live demonstration of evaluation using OSCE which was very beneficial for the participants for planning OSCEs in their fields.



SESSION IV- CHARACTERISTICS OF GOOD TEST: HOW TO PREPARE A GOOD QUESTION PAPER

Ms. Veena Sharma enlightened upon the characteristics of a good test. She has discussed how to construct questions in a test with examples. The questions must have some certain characteristics including relevancy, clarity, concise and crisp. The questions have to be purposeful and guiding (not leading), stimulate thinking and single dimensional. As the old proverb says, Good questions are cunning, they encourage thinking and reasoning. Case scenarios, as they are used in current pandemic condition, should be made according to the educational objectives of the examinee including their frame, level and duration. Ms. Veena Sharma highlighted the practical tips of setting a question paper which are- clear and complete instructions, marks distribution, neither too lengthy nor short, neither easy nor difficult and should cover entire syllabus instead of certain topics. These techniques and tips discussed by Ms. Veena Sharma gave a clear insight on making of tests and question papers which is practically useful for the teaching faculty.



SESSION V- INNOVATIVE TOOLS FOR ONLINE ASSESSMENT & HANDS ON PRACTICE – ONLINE TOOL

Dr. Shiv Kanya Fuloriya enlightened everyone about Innovative tools for online assessment. She described purposes of assessment. She brought forth 75 online assessment tools which can be used in assessment. Some of them are as follow:

Quiz maker	Learning Pod	Thatquiz	Exam Time quizzes	Google forms
Testmoz	Poll everyone	Survey Anyplace	Edmodo	Kahoot
Gnowledge	Riddle	Socrative	Online quiz creator	Proprofs
Exam.net	Quiz Pedia	Flipquiz	Easy TEST Maker	Class Marker
Free Online SURVEY	Go Conquer	Moodles(LMS)	Edulastic	Spiral

She enlightened about the pros and cons of various tools such as EDMODO, QUIZLET, KAHOOT, CLASS Marker

She also conducted Hands on Practice of an online tool. The participants were provided a link in which participants were asked to solve MCQ's based on general knowledge facts. On selecting right answers they were getting scores. Participants enthusiastically participated in the activity and gained knowledge on conducting online assessment.

VALEDICTORY SESSION

The valedictory session of the faculty development programme on 'Evaluation and Measurement in Nursing Education' commenced with the welcome address by Ms. Anjali Kaushik, Organizing Secretary on 03.03.2021 at 4:45 pm. Ms. Veena Sharma, Chairperson, distributed the certificates to the participants. Further post-test and feedback were obtained from the participants. The workshop came to the end with the vote of thanks proposed by Dr. Shilpi Sarkar, Tutor, Rufaida College of Nursing.

BANNER

DNC CREDIT HOURS CERTIFICATE

DELHI NURSING COUNCIL
 Ahilya Bai College of Nursing Building, Lok Nayak Hospital
 New Delhi -110 002
 E-mail: registrar@delhinursingcouncil.com
 Website: www.delhinursingcouncil.com

ACC. No. 126

CNE CREDIT HOURS CERTIFICATE

Educational Activity Title **Workshop on Evaluation and Measurement in Nursing Education**

Date of Activity : **2nd to 3rd March 2021**

CNE Provider : **Rufaida College of Nursing, New Delhi**

at..... **Conference Hall, Rufaida College of Nursing, New Delhi**

Number of Credit hours Awarded by the Delhi Nursing Council is **10 Credit Hours**

Signature of the Registrar (FAC)

TEMPLATE OF PARTICIPATION CERTIFICATE

FACULTY DEVELOPMENT PROGRAMME 2021
WORKSHOP ON "EVALUATION AND MEASUREMENT IN NURSING EDUCATION"

2nd & 3rd March 2021
 Organized by
RUFAIDA COLLEGE OF NURSING
 Jamia Hamdard (Deemed to be University) New Delhi
Certificate of Participation

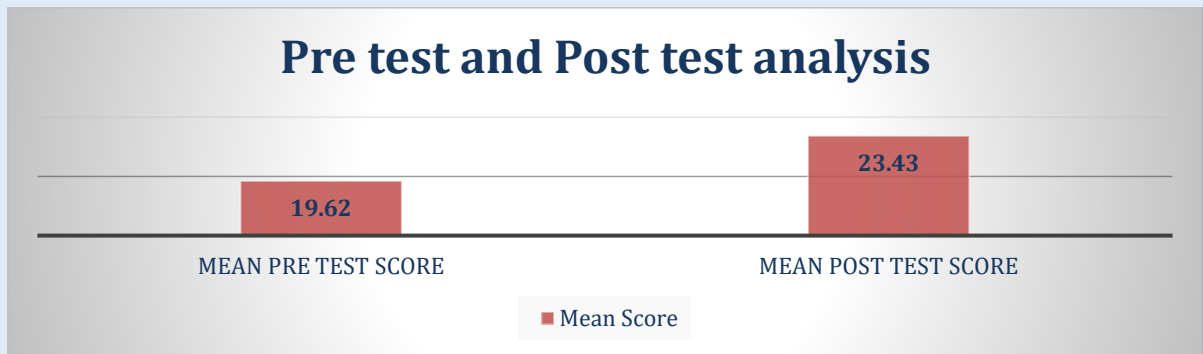
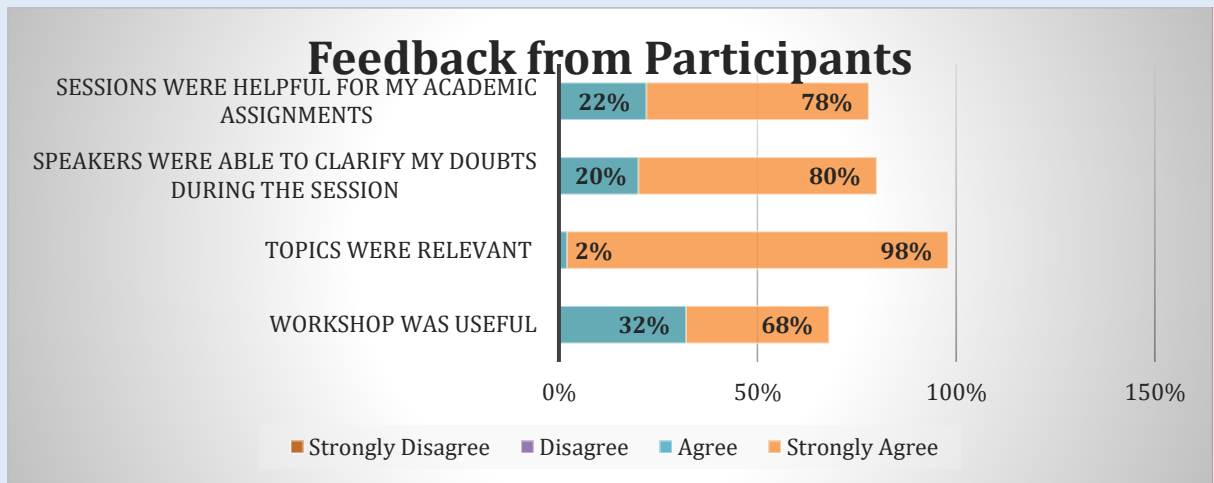
This is to certify that Mr./Ms./Dr./Prof. has contributed in the capacity of Organizer/Resource Person/Delegate in two days Workshop on "Evaluation and Measurement in Nursing Education" held on 2nd & 3rd march, 2021 at Rufaida College of Nursing, Jamia Hamdard.

Organizing Chairperson
 Ms. Vaana Sharma
 Principal
 Rufaida College of Nursing

Patron
 Prof. Dina P Desai
 Dean,
 School of Nursing Science & Allied Health

PROGRAMME SCHEDULE

ANALYSIS OF PARTICIPANTS FEEDBACK FOR THE FDP



Mean pre test Score: 19.62 ± 3.43 , Mean post test score: 23.43 ± 2.25 , t is 5.225229, p- 0.00004. The result is significant at $p < 0.05$

Pre test and Post test analysis

LIST OF PARTICIPANTS

Sr. No.	Name of the Faculty	Sr. No.	Name of the Faculty
1.	Dr. Manju Chhugani	16.	Ms. Sartaj Parveen
2.	Ms. Veena Sharma	17.	Ms. Anjali Kaushik
3.	Ms. Seema Rani	18.	Ms. Saba Hashmi
4.	Ms. Bindu Shaiju	19.	Ms. K Rebika Devi
5.	Mr. Eke Lama Tamang	20.	Ms. Shaheen Khan
6.	Ms. Mikki Khan	21.	Ms. Deepali Gupta
7.	Ms. Jamal Fatima	22.	Ms Babita Bisht
8.	Ms. Somibala Thokchom	23.	Ms. Gifty Bijoy
9.	Ms. Jahanara Rahman	24.	Ms. Suchhanda Bhattacharya
10.	Ms. Fareha Khan	25.	Ms. Uzma Anjum
11.	Ms. Hemlatha Nair	26.	Ms. Vandana Dagar
12.	Ms. Shilpi Sarkar	27.	Ms. Saliqua Sehar
13.	Ms. Anju	28.	Ms. Rashmi
14.	Mr. Naseem M.	29.	Ms. Sheeba Annie Chacko



WORKSHOP AT A GLANCE

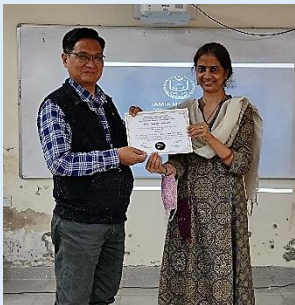
15.

Ms. Rajaxini



30.

Ms. Renu



Hamdard Institute of Medical Sciences and Research and
Associated HAH Centenary Hospital-62

Report on workshop “Management of Airway and Pain” (The MAP)

Venue: Central Skill Lab, Block –B, HIMSR & HAHC Hospital

Date: 30th March 2022

Timing: 02 PM to 04 PM

Total participants: 30

Title of workshop: Workshop on Bag mask ventilation, laryngoscopy and endotracheal intubation.

Resource persons: BLS / ACLS trained faculty of Department of Anaesthesia & Pain Medicine

Summary: As a first chapter in the series “Management of Airway and Pain” (The MAP), a workshop on bag mask ventilation, laryngoscope and endotracheal intubation was conducted by Department of Anaesthesia & Pain Medicine, pertaining to the basic skills of airway management for life saving, this workshop encouraged the delegates from all areas of hospital. The residents of various clinical departments, the interns, and the paramedical staff participated this salient workshop enthusiastically. The workshop encompassed the theory lectures on the equipments and the relevant indications and techniques for their use. It was followed by the demonstration of the same by the faculty on the mannequins. The hands on training was then conducted for the delegates to practice and ace the skills taught in the workshop.



Hamdard Institute of Medical Sciences and Research

**Department of Anaesthesia
HIMSR & HAHC Hospital**

*Welcomes you to the
Workshop series*

'The MAP'

Management of Airway and Pain



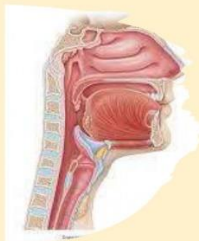
**Hands On workshop
Focused target group training
Small batches**

**DEPARTMENT OF ANAESTHESIA
HIMSR & HAHC**

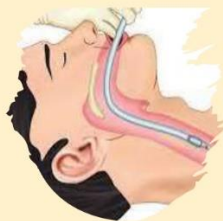
**Organizing workshop series
'The MAP'**

Management of Airway and Pain

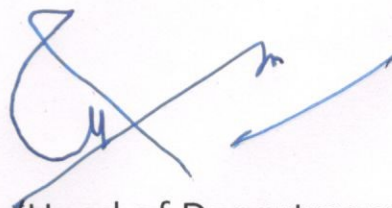
Hands On workshop
Focused target group training
Small batches



Topic: Bag Mask Ventilation, Laryngoscopy and Intubation
Venue: Block-B, 1st Floor, Central Skill Lab, HIMSR & HAHC
Date: 30/03/2022
Time: 02 PM To 04 PM



The Department of Anaesthesia is taking a step further by initiating a series of skill training on the "Management of Airway and Pain (The MAP)" for health care workers.



Organizing secretary/Head of Department

DR. KHARAT MOHAMMED
Prof. & HOD
Department of Anaesthesiology
HIMSR & HAHC Hospital
DMC No. - 79516

**Hamdard Institute of Medical Sciences and Research and
Associated HAH Centenary Hospital-62**

Report on workshop

Venue: Lecture theatre 1 & Central Skills Lab

Date: 7th May, 2022

Timing: 1-5 PM

Total participants: 75

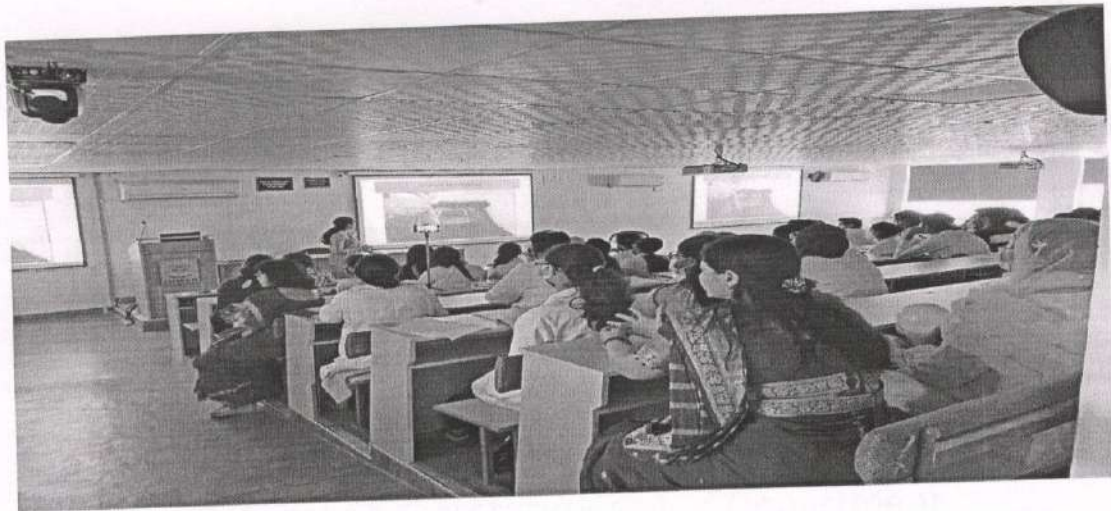
Title of workshop: CME Cum Hands-On Workshop on 'Basic Skills in Obstetrics & Gynecology'

Resource persons: Dr Aruna Nigam, Dr Arifa A Elahi, Dr Sumedha Sharma, Dr Nidhi Gupta, Dr Arpita De, Dr Pallavi Gupta, Dr Dina Aisha Khan, Dr Neha Varun,

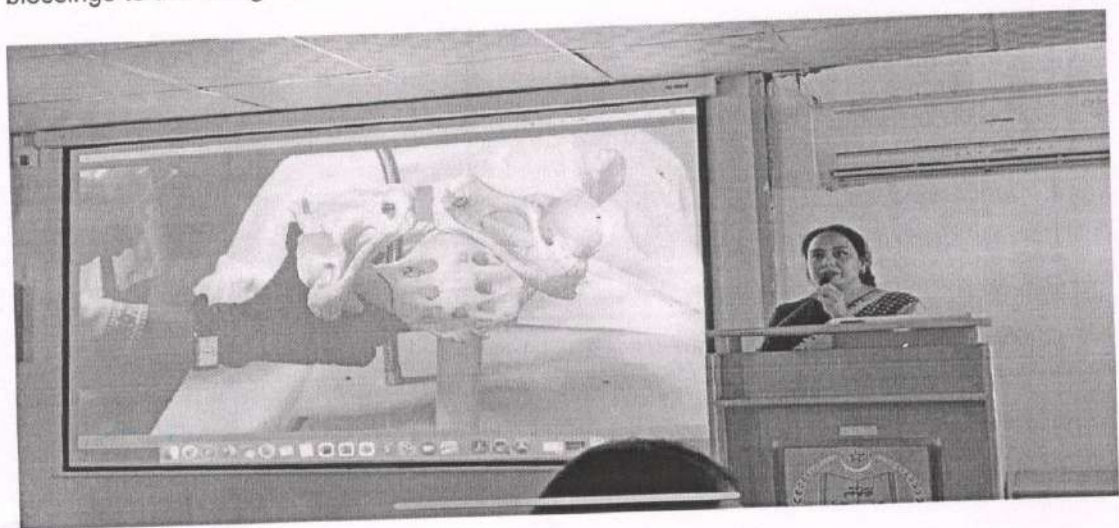
Summary: Report of CME Cum Hands-On Workshop on 'Basic Skills in Obstetrics & Gynecology' on 7th May, 2022 at Lecture theatre 1 & Central Skills Lab, HIMSR

The department of Obstetrics and Gynecology, HIMSR had organized CME cum Hands-On Workshop on 'Basic Skills in Obstetrics & Gynecology' on 7th May, 2022 at Lecture theatre 1 & Central Skills Lab, HIMSR from 1-5 PM. It was attended by approximately 75 delegates apart from the faculty and organizing committee. 15 Delegates were from outside HIMSR i.e. various other medical colleges of Delhi like Lady Hardinge medical college, Santosh Medical College, Baba Saheb Ambedkar Medical College etc.






There were lecture sessions in LT 1 followed by Hands-on training of each delegate in the Central Skills Lab. There were various lectures on important topics which were of utmost value in their day to day practice and teaching. An external faculty **Dr. Neha Varun** from All India Institute of Medical science & Research (AIIMS) had been invited for lectures as well as hands on training. The various topics covered were Obstetrical Assessment of Pelvis & Foley's Catheterization (Dr Arifa A Elahi), Conduct of Normal Delivery (Dr Dina Aisha Khan), Episiotomy (Dr Sumedha Sharma), AMTSL (Dr Arpita De), Basics of IUCD and PPIUCD insertion (Dr. Neha Varun), Technique of Postpartum Sterilization (Dr Pallavi Gupta), Gynaecological Examination, PAP Smear, HPV DNA testing and VIA, Endometrial biopsy (Dr Nidhi Gupta) and Balloon Tamponade (Dr Aruna Nigam). All the lectures were taken along with video demonstrations of each topic. Lecture sessions ended with the pearls of wisdom given by Dean Dr Mridu Dudeja who appreciated the efforts of the department and gave her blessings to the delegates.



All the delegates were given individualized training on the dummies which was appreciated by all. On feedback they insisted more of this kind of CME by the department and also suggested various topics for the same. Certificates of participation were given to all delegates.



Organizing secretary/Head of Department

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