BIODATA

ASIM HALDER



Permanent Address Village & P.O-Gurudaspur, Via-Kashinagar, Dist.-South 24 parganas, Pin-743349, W.B

Telephone +91 9647061885

Email

asimhalder.pharmac eutics@gmail.com

Date of Birth 11th Nov, 1987

Nationality Indian

Sex Male

Linguistic SkillsEnglish & Regional languages

Present Designation Assistant Professor JIS University

Research Interest Drug delivery/ Polymer and Metal Nanoparticles/ Nanomedicines

Education Qualification

- Ph.D. in Pharmaceutical and Fine Chemicals Technology at Department of Chemical Technology, University of Calcutta, West Bengal, 2021.
- M.Pharm (Specialization: Pharmaceutics) from Siksha 'O' Anusandhan University, Bhubaneswar, Odisha with 88.60% marks, 2012
- B.Pharm from Rajiv Gandhi University of Health Sciences (RGUHS), Bangalore, Karnataka with 72.95% marks, 2009.
- Higher Secondary (10+2) from West Bengal council of Higher Secondary Education with 70.20% marks, 2005.
- Matric (10th) from West Bengal Board of Secondary Education with 79.13% marks, 2003.

Work Experience

Academic

- Assistant Professor, Department of Pharmacy, JIS University, Agarpara, Kolkata from 1st July 2020 to present.
- Assistant Professor, School of Pharmaceutical Technology, ADAMAS University, Barasat, Kolkata from 04th July 2019 to 30th June 2020.
- Assistant Professor, Department of Pharmacy, JIS University, Agarpara, Kolkata from 13th July 2018 to 03rd July 2019.
- Guest faculty, *Pharmacovigilance in Pharmaceutical and Clinical Research* course at JIS University, Agarpara, Kolkata. 2018.
- Guest faculty, Department of Chemical Technology, University of Calcutta, Kolkata during the session 2015-2016.

Research

- University Research Fellow (UGC, URF) in Department of Chemical Technology, University of Calcutta from 13.04.2015 to 12.07.2018.
- Senior Research Fellow (TEQIP-II scheme) in the Department of Chemical Technology, University of Calcutta from 27.08.2013 to 12.04.2015.

Project Details

- Indian Institutional Collaborator for an International Multilateral Research Grant termed as "Asean Grant" (DST) in collaboration with University of Technology, Mara, Govt. of Malaysia and University Brunei Darussalam, Govt. of Brunei received by Dr. Partha Roy (Project In-charge).
- Completed a research project entitled "Design & development of nanoparticle drug delivery system for Betulinic acid" funded by TEQIP Phase II at University of Calcutta in 2013.
- Submitted a project entitled "Gallic acid engineered theragnostic gold nanoclusters in triple negative breast cancer under DST, International Cooperation (Bilateral) Programme, India Egypt ST cooperation in collaboration with The British University in Egypt. (Project Co-Investigator).
- Submitted a project under Royal Society of Chemistry (RSC, UK) for member research fund.

Industrial Experience

- Worked on design of nano-emulsion jointly with Albert David Company limited, Kolkata, India as part of University/Industry collaboration program.
- Pursued one year project and training on tablet formulation, coating and packaging at Research & Development (FR&D) section of Micro Labs. Pvt. Ltd. Bangalore.
- Industrial training on liquid dosage form at Ricker Pharmaceuticals Pvt. Ltd. West Bengal.

Awards

- "Ligand Tethered Gold Nanoparticles against Untamed and Drug Resistant Leishmania Donovani" Arup Mukherjee, **Asim Halder** and Suvadra Das was awarded one of the best paper for oral presentation in the International Conference on Nanomedicine and Nanobiotechnology (ICONAN 2016) held at the University Pierre and Marie Curie in Paris, France.
- Awarded 1st prize for poster presentation in national conference on Recent Advances and Scope in Herbal Technology: Challenges and Prospect 2016 at Assam University, Silchar, Assam, India.
- Awarded International Travel Grant from the UGC-UPE Travel to attain "International Conference on Nanomedicine and Nanobiotechnology" held in Paris from 28th to 30th September 2016.
- Awarded a project grant under the R&D activities from TEQIP Phase II at University of Calcutta in 2013.
- Qualified in GPAT 2010 held on 2nd May, 2010
- Awarded 2nd prize for a model presentation on magnetic nanoparticle named "Drug When You Need" in AMITY'11 at Siksha 'O' Anusandhan University, Bhubaneswar, Odisha.

Workshops

- Workshop on Flow cytometry (BD FACSVERSETM) by Becton and Dicksinson India Pvt. Ltd. in association with the Centre for Research in Nanoscience and Nanotechnology, University of Calcutta.
- Workshop on FT/IR-6300 & IRT-7000 Microscope by Anatek Services Pvt. Ltd. in association with the Centre for Research in Nanoscience and Nanotechnology, University of Calcutta.
- Workshop on "Application of radiation in physical, chemical and life sciences" jointly organized by UGC-DAE Consortium for scientific research and for Research in Nanoscience and Nanotechnology, University of Calcutta.

Technical Expertise

- Skilled on Leica high quality Ultramicrotome (EM FC7 and EM UC7), Leica EM TP, Leica EM TRIM, Leica EM AC20, Leica EM KMR3.
- Trained on Leica automatic bare Grid Plunger (Leica EM GP), Leica Critical Point Drier (EM CPD300) and 626 single tilt liquid nitrogen Cryo-transfer system, GATAN, Inc, USA.
- Proficiency on High Pressure Homogenizer, Nano DeBEE INTERNATIONAL, MA, USA.
- Expertise in Particle size analyzer (Nano-ZS Malvern), HPLC (Waters), UV-Visible spectrophotometer, Fluorescence spectroscopy, FTIR, Ultracentrifuge, Lyophilizer and Dissolution study.
- Trained on TCS iON and TCS Digital glass-room platform and related activity.

Publications

- 1. **Halder**, A., Das, S., Bera, T. and Mukherjee, A. "Rapid Synthesis for Monodispersed Gold Nanoparticles in Kaempferol and Anti-leishmanial Efficacy against Wild and Drug Resistant Strains". *RSC Advances*. 2017; 7: 14159-14167. [Scopus]
- **2. Halder**, A., das, S., Ojha, D., Chattopadhyay, D. and Mukherjee, A. "Highly monodispersed gold nanoparticles synthesis and inhibition of herpes simplex virus infections". *Materials Science and Engineering: C.* 2018; 89: 413-421. [Scopus]
- **3.** Halder, A., Shukla, D., Das, S., Roy, P., Mukherjee A. and Saha, B. "Lactoferrin-modified Betulinic Acid-loaded PLGA nanoparticles are strong anti-leishmanials". *Cytokine*. 2018; 110: 412-415. [Scopus]
- 4. Mondal, S., Roy, P., Das, S., **Halder**, A., Mukherjee, A. and Bera, T. "In Vitro Susceptibilities of Wild and Drug Resistant Leishmania donovani Amastigote Stages to Andrographolide Nanoparticle: Role of Vitamin E Derivative TPGS for Nanoparticle Efficacy". *Plos One.* 2013; 8: e81492. [Scopus]
- 5. Das, S., **Halder**, A., Mandal, S., Mazumder, M.A.J., Bera, T., Mukherjee, A. and Roy, P. "Andrographolide engineered gold nanoparticle to overcome drug resistant visceral leishmaniasis". *Artificial Cells, Nanomedicine, and Biotechnology.* 2018; *DOI:* 10.1080/21691401.2018.1435549. [Scopus]
- 6. Basu, A., Kundu, S., Sana, S., **Halder**, A., Abdullah, M.F., Datta, S. and Mukherjee, A. "Edible nano-bio-composite film cargo device for food packaging applications". *Food Packaging and Shelf Life*. 2016; 11: 98-105. [Scopus]
- 7. Kundu, S., Abdullah, M.F., Das, A., Basu, A., **Halder**, A., Das, M., Samanta, A. and Mukherjee, A. "Antifungal ouzo nanoparticles from guar gum propionate". *RSC Advances*. 2016; 6: 106563-106571. [Scopus]
- 8. Ghosh, S., Das, A., Basu, A., **Halder**, A., Das, S., Basu, S., Abdullah, M.F., Mukherjee, A. and Kundu, S. "Semi-interpenetrating hydrogels from carboxymethyl guar gum and gelatin for ciprofloxacin sustained release". *International Journal of Biological Macromolecules*. 2018; 120: 1823-1833. [Scopus]
- 9. **Halder**, A., Behera, A., Si, S., Biswal, I. and Dinda, A. "Preparation of Loperamide Hydrochloride Chewable Tablet: Method Validation by HPLC". *Int J Pharm Pharm Sci.* 2012; 4(2): 372-376. [EBSCO, EMBASE, SCI, CAS, CASSI]
- 10. **Halder**, A., Mukherjee, P., Ghosh, S., Mandal, S., Chatterji, U. and Mukherjee, A. "Smart PLGA nanoparticles loaded with Quercetin: Cellular uptake and in-virto anticancer study". *Materials Today: Proceedings.* 2018; 5: 9698-9705. [Scopus]
- 11. Das, S., Halder, A., Roy, P. and Mukherjee, A. "Biogenic gold nanoparticles against Wild and Resistant type visceral leishmaniasis". *Materials Today: Proceedings*. 2018; 5: 2912-2920. [Scopus]
- 12. Islan, G.A., Das, S., Cacicedo, M.L., **Halder**, A., Mukherjee, A., Cuestas, M.L., Roy, P., Castro, G.R. and Mukherjee, A. "Silybin-conjugated gold nanoparticles for antimicrobial chemotherapy against Gram-negative bacteria". *Journal of Drug Delivery Science and Technology*. 2019; 53: 101181. [Scopus]
- 13. **Halder, A.**, Jethwa, M., Mukherjee, P., Ghosh, S., Das, S., Helal Uddin, A.B.M., Mukherjee, A., Chatterji, U. and Roy, P. "Lactoferrin-tethered betulinic acid nanoparticles promote rapid delivery and cell death in triple negative breast and laryngeal cancer cells". Artificial Cells, Nanomedicine, and Biotechnology. 2020; 48 (1): 1362-1371. [Scopus]
- 14. Chakrabarty, S., Halder, A., and Mukherjee, A. "Synthesis of gold nanomedicines: Up-scaling and challenges". Journal of applied pharmaceutical science, (manuscript number: japs-2021-05-523, 2021).

Citations:

Period	Scopus	Web of Science	Google Scholar
During the year	90	61	120
Overall	173	122	223

Book and Book Chapter

- Asim Halder, Suvadra Das, Partha Roy, Tanmoy Bera and Arup Mukherjee. "Eco-Friendly Synthesis of Functionalized Gold Nanoparticles: Particle Propagation and Biological Activity against Parasitic Infections". NANOSPECTRUM: A Current Scenario 2015. Allied Publishers Pvt. Ltd, New Delhi-110064. (ISBN No: 978-93-85926-06-8)
- 2. Polymeric Scaffolds for Tissue Regeneration" for the book Nanotechnology for Biomedical Tissue Engineering (Elsevier) will be submitted soon.

Presentations Abroad

- 1. Poster presentation entitled "Engineered Nanoparticles for rapid delivery of betulinic acid in MDA MB 231 and HEp-2 cancer cell lines" **Asim Halder**, Pritha Mukherjee, Subarna Ghosh, Urmi Chatterji and Arup Mukherjee in the International Conference on Nanomedicine and Nanobiotechnology (ICONAN 2016)" held on September 28-30, 2016 at the University Pierre and Marie Curie in Paris, France.
- 2. Oral presentation entitled "Ligand Tethered Gold Nanoparticles against Untamed and Drug Resistant Leishmania Donovani" Arup Mukherjee, **Asim Halder**, Suvadra Das in the International Conference on Nanomedicine and Nanobiotechnology (ICONAN 2016)" held on September 28-30, 2016 at the University Pierre and Marie Curie in Paris, France.
- 3. Oral presentation entitled "Biogenic Gold Nanoparticles for Complete Recovery of Dermal Burn Wounds" Suvadra Das, **Asim Halder**, Partha Roy, Anwesha Banerjee, Durbadal Ojha, Saptarshi Mandal, Debprasad Chattopadhyay and Arup Mukherjee in the International Conference on Nanomedicine and Nanobiotechnology (ICONAN 2016)" held on September 28-30, 2016 at the University Pierre and Marie Curie in Paris, France.
- 4. Poster presentation entitled "Mannose Nanoparticles from Guar Gum: Macrophage Vectorization, Drug Delivery and Leishmanicidal Efficacy against Wild and Drug Resistant Strains" Arup Mukherjee, **Asim Halder**, Sumanta Kumar Ghosh, Nandita Ghosh, Ena Ray Banerjee in the International Conference on Nanomedicine and Nanobiotechnology (ICONAN 2016)" held on September 28-30, 2016 at the University Pierre and Marie Curie in Paris, France.

Presentations in International & National Conferences

- 1. Poster presentation entitled "Biosafe Gold Nanoparticles as Potent Antivirals against HSV-1 and HSV-2 Infection". **Asim Halder**, Durbadal Ojha, Debprasad Chattopadhyay and Arup Mukherjee in the national conference on Recent Advances and Scope in Herbal Technology: Challenges and Prospect held on September 9-10, 2016 at Assam University, Assam, Silchar, India
- 2. Oral presentation entitled "Biogenic Gold Nanoparticles against Wild and Resistant Type Visceral Leishmaniasis. Suvadra Das, **Asim Halder** and Arup Mukherjee in International Conference on Advanced Materials and Applications held on June 15-17, 2016 at Bangaluru, India.

- 3. Poster presentation entitled "Biogenetic Gold Nanoclusters Interaction in Protein Interfaces" **Asim Halder** and Arup Mukherjee in the 11th International IUPAC Conference on Polymer-Solvent Complexes & Intercalates held on January 27-30, 2016 at IACS, Kolkata, India.
- 4. Poster presentation entitled "Eco-friendly Synthesis of Functioned Gold Nanoparticles: Particle Propagation and Biological Activity against Parasitic Infections" **Asim Halder**, Suvadra Das, Partha Roy, Tanmoy Bera and Arup Mukherjee in the national conference on Nanoscience and nanotechnology held on September 18-19, 2014 at CRNN, University of Calcutta, Kolkata, India.
- 5. Poster presentation entitled "Transdermal Delivery of Quercetin Nanoemulsion for Dermal Wound Healing" **Asim Halder**, Suvadra Das, Asif Arfan Sheikh and Arup Mukherjee in the international seminar on Recent Advances in Clinical Research with a Special Emphasis on BA/BE Study held on September 11-15, 2014 at J.U, Kolkata, India.
- 6. Poster presentation entitled "One pot synthesis for Andrographolide Functionalized Gold Nanoparticles and Vectorization in Macrophage Infested Leishmanial Infection" **Asim Halder**, Suvadra Das, Partha Roy, Tanmoy Bera and Arup Mukherjee in the 5th Asian Conference on Colloid and Interface Science held on November 20-23, 2013 in the University of North Bengal, Darjeeling, West Bengal, India.
- 7. Poster presentation entitled "Betulinic Acid PLGA Nanoparticals Amrliorates Ehrlich Ascites Carcinoma in Mice" **Asim Halder**, Partha Roy, Suvadra Das and Arup Mukherjee in the 100th Indian Science Congress held on January 3-7, 2013 at Kolkata, West Bengal, India.
- 8. Participated in PCI sponsored "Continuing Education Programme for Pharmacy Teachers", held on September 05-07, 2018 at Jadavpur University, Kolkata, India.
- 9. Participated in National seminar on drug industry and academia summit: 2020 and beyond held on 04.03.2020 at School of Pharmaceutical Technology, Adamas University, Barasat, Kolkata, India.
- 10. Attended a webinar entitled "Epigenetics- Inheritance of epigenetic markers" delivered by Dr. Deborshi De (AVP-SHRM Biotechnogies Pvt. Ltd.) held on 27th April, 2020 conducted by School of Pharmaceutical Technology, Adamas University, Barasat, Kolkata, India.
- 11. Attended a webinar on "Let's beat COVID: Your food, your medicine" delivered by Dr. Dilip Ghosh, Director, Nutriconnect, Sydney, Director, Trigonella Labs Pty Ltd, Sydney held on 30th April 2020 organized by School of Pharmaceutical Technology, Adamas University, Barasat, Kolkata, India
- 12. Attended a webinar on "Innate immunity to respiratory invasions" held on 09th May 2020 organized by Department of Pharmaceutical Technology, MAKAUT, Kolkata, India.
- 13. Poster entitled "Synthesis of gallic acid engineered monodispersed gold nano particles and application against protein fibrillation", Virtual International Conference on Advances in Chemistry and Chemical Engineering held on April 16-17, 2021, Sardar Vallabhbhai National Institute of Technology, Gujarat, India.
- 14. Poster entitled "Phytochemical engineered smart nano- gold in triple negative breast cancer", Chemical Nanosciences and Nanotechnology early career virtual poster symposium held on 24th March 2021, Royal Society of Chemistry (UK).
- 15. Poster entitled "A review on green synthesized metal nanoparticles using different species of Ziziphus plant extract for enhancement of antibacterial and antifungal activities", 8th World Conference on Pharmaceutical Science and Drug Manufacturing, April 17-18, Bangkok, Thailand.

FDP and Webinars

• Attended FDP: 13 and Webinar: 25 (Separate list enclosed)

Project Supervised: UG, PG and Ph.D level

• UG Project Supervised: 4

• PG Project Supervised: 2 (Ongoing)

• Ph.D thesis supervised: 4 (Ongoing)

Aditional Qualification

- BSS Diploma in Food Safety
- Completed an online course on Biomedical Nanotechnology (4 weeks) through NPTL.
- Completed online course on 'COVID-19: What You Need to Know' (CME Eligible) offered by Coursera and authorised by Osmosis.
- Completed AICTE teachers training program (Module 1&2, AICTE approved FDP) by NITTTR, Chennai.
- Participated 3 days AICTE examination reforms online workshop organized by All India Council for Technical Education (AICTE) and Chitkara University, Chandigarh on 8th to 10th July 2021.

Aditional Contribution

- Engage in writing blog article on different topics and the most recent one: 'Nanomedicines and infectious disease' (http://adamasuniversity.ac.in/nanomedicines-and-infectious-disease/)
- Acting as a reviewer for different journal and course/subject moderator for different pharmacy colleges and Universities.
- Experience in AICTE, PCI, NAAC documentation work and approval process.
- Performed duty as a treasurer for national seminar on drug industry and academia summit: 2020 and beyond at Adamas university.

Memberships

- Associate Member of Royal Society of Chemistry (AMRSC: 625348)
- APTI, Life Member, WB/LM-177
- The Indian Science Congress Association (Membership No: A2644).
- West Bengal Pharmacy Council (Reg. No: A11757).

Administrative Responsibilities

Responsibility	Duration	Functions
Member of IQAC Cell: Responsible for IQAC related work of the department.	July 2020-June 2021	Performing data analysis for preparing academic audit report.
Member of DRC: Responsible for functioning of the PhD related work and Research work.	April-June 2021	To look after the overall functioning of the PhD related work and Research work in the University
NAAC committee member	Jan-June 2021	To prepare SSR for criteria 3
Documentation for UGC visit	March-April 2021	Assigned multiple duties such lab setting, PPT, report compilation.
Departmental web page updating work	Jan-March 2021	To compile and update all relevant information.

Idea O meter coordination	July 2020-June 2021	To guide students and communicate with HO.
Course coordination	July 2020-June 2021	To coordinate UG final year students for overall academic activity.

References

> Professor Arup Mukherjee

Professor

Department of Biotechnology,

Malulana Abul Kalam Azad University of Technology (formerly WBUT),

NH-12, Haringhata, Simhat, Nadia 741 249, India.

Former professor, Department of Chemical Technology

University of Calcutta

Email: arupm1234@gmail.com

> Dr. Debprasad Chattopadhyay

Scientist G & Director

ICMR- National Institute of Traditional Medicine (NITM)

Regional Medical Research Centre (RMRC)

Ministry of Health Research, Government of India

Belagavi, Karnataka

E. Mail: debprasadc@yahoo.co.in debprasadc@gmail.com

Declaration:

I declare that all the above mentioned facts are true to the best of my knowledge and belief.

Place: Kolkata
Date: 29.11.2021

(Asim Halder)

FDP and Webinars:

- i. Participated AICTE teachers training program (Module 1&2, AICTE approved FDP) by NITTTR, Chennai.
- ii. Attended workshop on "Modern pedagogy development and mapping technique" held on 1st June 2021 organized by IQAC, JIS University, Kolkata, India.
- iii. Participated webinar on "Insights of regulatory affairs and pharmacovigilance" held on 6th March 2021 organized by Department of Pharmaceutical Technology, JIS University, Kolkata, India.
- iv. Participated and successfully completed AICTE sponsored STTP on "Clinical pharmacy sevices- optimizing patient health" held from 15th March to 20th March 2021 organized by Department of Pharmacy practice, Sri Vishnu College of Pharmacy, Andhra Pradesh, India.
- v. Participated on "International Yoga day" held on 21st June 2021 organized by Department of Education, JIS University, Kolkata, India.
- vi. Attended a webinar on "Future Prospects of Pharmacovigilance & Drug Safety" held on 11th July 2020 organized by Department of Pharmaceutical Technology, MAKAUT, Kolkata, India.
- vii. Attended a webinar on "Start being predictable: improve your experimentation" held on 07th July 2020 organized by Royal society of chemistry, UK.
- viii. Participated in 2nd National Conference of Multidisciplinary Research Online (NCMR 2020) at JIS University, Kolkata, India.
- ix. Attended a webinar on "Managing isolation-building a better chemistry culture" held on 16th July 2020 organized by Royal society of chemistry, UK.
- x. Attended an international webinar on "WISSEN-II Replenished: 2020" held from 08th July to 10th July 2020 organized by BCDA college of pharmacy and technology, Barasat, Kolkata, India.
- xi. Attended two Days "International e-Conference Industry Academia Partnership: Need of the hour" organized by the Indian Pharmaceutical Association (IPA) Anantapur Local Branch and Raghavendra Institute of Pharmaceutical Education & Research (RIPER) Autonomous, Ananthapuramu in association with IPA Education Division, on September 12 & 13, 2020.
- xii. Participated in the National Level Webinar on "Quality Improvement in Higher Education by Up-skilling" organized by Internal Quality Assurance Cell AISSMS college of Pharmacy, Pune on 23rd September 2020.
- xiii. Attended a webinar on "Formulating Research Proposal to get a Grant" by Dr. N.M. Raghavendra, Professor Dept. of Pharmaceutical Chemistry Acharya & BM Reddy College of Pharmacy, Bengaluru held on 2nd Oct 2020 organized by School of Pharmaceutical Technology, Adamas University, Barasat, Kolkata, India.
- xiv. Participated and successfully completed the young researcher summit during 28-30 July, 2020 organized by Eminent College of pharmaceutical technology.
- xv. Participated in the international webinar 'the new wave of pharmaceutical innovation: reacting towards the new normal' on 25th August, 2020 organized by department of pharmaceutical technology, JIS University.

xvi. Participated in the international webinar on 'Utilizing Technology in Healthcare' on 17th September, 2020 organized by department of pharmaceutical technology, JIS University.

xvii. Participated in the national level talk series on 'Interaction with industry legends (carrier development in post pandemic)' on 10th October, 2020 organized by department of pharmaceutical technology, JIS University.

xviii. Participated in the national level talk series on 'India's sanitation mission (SMB) now and post COVID-19: threads and opportunities' on 28th August, 2020 organized by department of pharmaceutical technology, JIS University.

xix. Attended a webinar on "Optimizing production process with design of experiment" held on 4th August 2020 organized by chemistry world, Royal society of chemistry, UK.

xx. Participated in national webinar on 'Covid-19: Past, Present and Future', organized by Department of Chemical Technology, University of Calcutta, Kolkata on August 7, 2020.

xxi. Attended a webinar on "Machine learning / artificial intelligence in pharmaceutical sciences" held on 03rd September 2020 organized by Department of Pharmaceutical Technology, MAKAUT, Kolkata, India.

xxii. Attended a webinar on "Machine Reimagining Pharma Manufacturing in the Post Covid World" held on 15th August 2020 organized by Department of Pharmaceutical Technology, MAKAUT, Kolkata, India.

xxiii. Attended a webinar on "Smart Nanomaterials for Applications In Applied Sciences" held on 19th August 2020 organized by Department of Applied Sciences, MAKAUT, Kolkata, India.

xxiv. Attended a webinar on "Development to commercial, birth of a pharmaceutical products and journey- institute to industry" held on 03rd October 2020, organized by Indian Association of Pharmaceutical Scientists and Technologists, Kolkata, India.

xxv. Completed AICTE approved FDP course on Biomedical Nanotechnology (4 weeks) from NPTL, September-October 2020.

xxvi. Participated in e-FDP on "RECENT TRENDS IN PHARMACEUTICAL TECHNOLOGY" organized by Bengal School of Technology in association with Association of Pharmaceutical Teachers of India, Bengal Branch and Maulana Abul Kalam Azad University of Technology, West Bengal from 5-9 September 2020.

xxvii. Participated and successfully completed the online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education" during 19-23 October, 2020 as organized by All India Council for Technical Education (AICTE).

xxviii. Participated and successfully completed the online FDP on "Advancement in Pharmaceutical Education and Research in COVID Era" during from 11th to 15th August 2020 by Internal Quality Assurance Cell (IQAC) of Guru Nanak Institute of Pharmaceutical Science & Technology.