

# Dr. Nabanita Pal

## Assistant Professor



Education Qualifications: Doctor of Philosophy (Chemistry)  
Specialization: Inorganic Chemistry

### ADDRESS:

- A – Block -Room No. A212

### JNTUH ID:

0485-180702-171940

### EMAIL:

nabanitapal\_chem@mgit.ac.in

### DATE OF JOINING:

01-08-2018

### EXPERIENCE – 14.5 Years

- Teaching – 5.5
- Research -9

### SUMMARY:

- Publications - 36
- Conferences - 14
- Books – 1
- Honors/Awards - 5

### EVENTS:

- Organized - 2
- Attended - 25

### LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- [https://twitter.com/MGIT\\_hyderabad](https://twitter.com/MGIT_hyderabad)

### Membership of Professional Bodies:

1. Life member (L37719): The Indian Science Congress Association, India.
2. Life member (LM2808): Chemical Research Society of India, India
3. Life Member (LMB2906): Materials Research Society of India.

### Responsibilities Held at Institution Level:

1. Coordinator- SATAT -Framework for ecofriendly and sustainable campus development
2. Member of Anti-ragging squad
3. Bus incharge for student bus
4. Security committee Member of Students' Cultural Festival 'Nirvana'

### Responsibilities Held at Department Level:

1. Member of BoS - (Environmental Science Subject)
2. Documentation for NBA, NAAC, JNTUH FFC visits, etc.

### Honors/Awards Received:

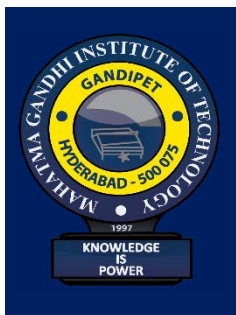
1. 2021 : 3rd position in oral presentation competition in a International conference on RACSE organized by NIT Jamshedpur.
2. 2021 : Best Oral presentation award in a National Seminar NSCPAM-2021 held at Govt. Pt. Shyamacharan Shukla College, Dharsiwa, Raipur.
3. 2012 : Dr. D. S. Kothari Postdoctoral Fellowship by UGC.
4. 2007 : NET-JRF in Chemical Sciences by CSIR, India
5. 2007: Graduate Aptitude Test in Engineering (GATE) in Chemistry.

### Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Chemistry, Engineering Chemistry Lab, and Environmental Science.

### Publications:

1. N. Pal, Y. Sunwoo, J.-S. Park, T. Kim and E.-B. Cho, "Newly designed mesoporous silica and organosilica nanostructures based on pentablock copolymer templates in weakly acidic media," *Nanomaterials*, 2016, Vol. 11 pp. 2522. doi.org/10.3390/nano11102522
2. N. Pal, Jun-Hyeok Lee and E.-B. Cho, "Recent trends in morphology-controlled synthesis and application of mesoporous silica nanoparticles" *Nanomaterials*, 2020, Vol. 10(11) pp 2122. doi.org/10.3390/nano10112122
3. N Pal, "Nanoporous metal oxide composite materials: A journey from the past, present to future" *Advances in Colloid and Interface Science*, 2020, Vol 280, pp 102156. doi.org/10.1016/j.cis.2020.102156
4. N. Pal,\* S. Sim and E.-B. Cho, "Multifunctional periodic mesoporous benzene-silicas for evaluation of CO<sub>2</sub> adsorption at standard temperature and pressure" *Microporous and Mesoporous Materials*, 2020, 293 pp. 109816. doi.org/10.1016/j.micromeso.2019.109816

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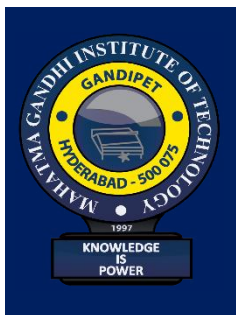
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- [https://twitter.com/MGIT\\_hyderabad](https://twitter.com/MGIT_hyderabad)

5. G. Dinda, D. Halder, A. Mitra, N. Pal and D. K. Chattoraj, “Phytosynthesis of silver nanoparticles using Zingiber officinale extract: evaluation of their catalytic and antibacterial activities” *Journal of Dispersion Science and Technology*, 2019, August 20, pp 1-8. doi.org/10.1080/01932691.2019.1653194
6. N. Pal, S. Yim, H. Kim, J. Park and E.-B. Cho, “Superparamagnetic NiO Doped Mesoporous Silica Flower-like Microspheres with High Nickel content” *Journal of Industrial and Engineering Chemistry*, 2020, Vol. 81 pp. 99–107. doi.org/10.1016/j.jiec.2019.08.058
7. N. Pal, \* T. Kim, J.-S. Park and E.-B. Cho, “Synthesis of ordered Ca- and Li-doped mesoporous silicas for H<sub>2</sub> and CO<sub>2</sub> adsorption at ambient temperature and pressure,” *RSC Advances*, 2018, Vol. 8, pp. 35294–35305. DOI: <https://doi.org/10.1039/C8RA05772A>
8. N. Pal,\*S. Banerjee, E. Choi, and E.-B. Cho, “Facile one-pot synthesis of yolk-shell structured Ni doped mesoporous silica and its application in enzyme-free glucose sensor” *ChemistrySelect*, 2018, Vol. 3 pp. 6029–6034. doi.org/10.1002/slct.201800583
9. N. Pal,\* S. Banerjee and A. Bhaumik, “A facile route for the syntheses of Ni(OH)<sub>2</sub> and NiO nanostructures as potential candidates for non-enzymatic glucose sensor”, *Journal of Colloid and Interface Science*, 2018, Vol. 516 pp 121-127. DOI: 10.1016/j.jcis.2018.01.027
10. M. Modak, N. Pal, S. Mondal, M. Sardar and S. Banerjee, “Magnetic behavior of nanostructured NiTiO<sub>3</sub> and NiO material: Anomalous increase in coercivity”, *Journal of Magnetism and Magnetic Materials*, 2018, Vol. 448 pp. 221–227. doi.org/10.1016/j.jmmm.2017.06.064
11. G. Dinda, D. Halder, A. Mitra, N. Pal, C. Vázquez-Vázquez and M. A. López-Quintela, “Study of antibacterial and catalytic activity of highly monodisperse silver nanocolloid synthesized using fruit of *Sapindus mukorossi*”, *New Journal of Chemistry* 2017, Vol 41, pp 10703-10711. doi.org/10.1039/C7NJ00704C
12. N. Pal,\* I. Mukherjee, S. Chatterjee and E.-B. Cho, “Surfactant-assisted synthesis of ceria–titania-rich mesoporous silica materials and their catalytic activity towards photodegradation of organic dyes,” *Dalton Transactions* 2017, Vol 46, pp 9577-9590. doi.org/10.1039/C7DT01574G
13. R. Alam, K. Pal, B. Shaw, M. Dolai, N. Pal, S. K. Saha and M. Ali, “Synthesis, structure, catalytic and magnetic properties of pyrazole based five coordinated dinuclear cobalt(II) complex,” *Polyhedron* 2016, Vol. 106,pp 84-91. doi.org/10.1016/j.poly.2015.12.062
14. N. Pal, A. K. Patra, E.-B. Cho and D. Kim, “Ceria containing mesoporous silica: synthesis, properties and applications” *ChemCatChem* 2016, Vol.8, pp 285-303. doi.org/10.1002/cctc.201500780
15. N. Pal,\* B. Saha, S. K. Kundu, A. Bhaumik and S. Banerjee, “A highly efficient non-enzymatic glucose biosensor based on nanostructured NiTiO<sub>3</sub>/NiO material,” *New Journal of Chemistry*, 2015 Vol 39, pp. 8035-8043. doi.org/10.1039/C5NJ01341K
16. N. Pal\* and A. Bhaumik, “Mesoporous material: a versatile support in heterogeneous catalysis for the liquid phase catalytic transformations,” *RSC Advances*, 2015, Vol. 5, pp 24363-24391. doi.org/10.1039/C4RA13077D
17. N. Pal, E.-B. Cho, D. Kim, C. A. Gunathilake and M. Jaroniec, “Catalytic activity of CeIVO<sub>2</sub>/Ce<sub>2</sub>IIIIO<sub>3</sub>-silica mesoporous composite materials for oxidation and esterification reactions,” *Chemical Engineering Journal* 2015 Vol. 262, pp. 1116-1125. DOI:10.1016/j.cej.2014.10.068
18. N. Pal, E.-B. Cho, D. Kim and M. Jaroniec, “Mn-doped ordered mesoporous ceria-silica composites and their catalytic properties towards

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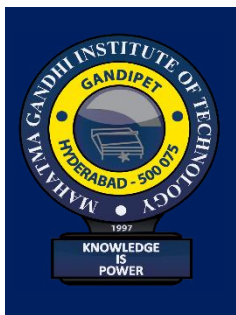
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biofuel production,” *Journal of Physical Chemistry C* 2014, Vol. 118 pp 15892-15901. doi.org/10.1021/jp504801h

19. N. Pal, M. Pramanik, A. Bhaumik and M. Ali, “Highly selective and Direct oxidation of cyclohexane to cyclohexanone over vanadium exchanged NaY zeolite at room temperature under solvent-free conditions,” *Journal of Molecular Catalysis A: Chemical* 2014 Vol 392, pp 299-307. doi.org/10.1016/j.molcata.2014.05.027
20. N. Pal, M. Pramanik, Md. M. Seikh and A. Bhaumik, “Organic–inorganic hybrid supermicroporous chromium oxophenylphosphate with magnetic and catalytic properties,” *Journal of Magnetism and Magnetic Materials* 2014, Vol 363, pp. 210-216. doi.org/10.1016/j.jmmm.2014.03.059
21. N. Pal, E.-B. Cho and D. Kim, “Synthesis of ordered mesoporous silica/ceria-silica composites and its high catalytic performance for solvent-free oxidation of benzyl alcohol at room temperature,” *RSC Advances* 2014 Vol. 4, pp. 9213-9222. doi.org/10.1039/C3RA47464J
22. R. Chatterjee, L. Paul, D. K Hazra, N. Pal, A. D Jana, M. Mukherjee and M. Ali, “Encapsulation of a double-helical water-nitrate chain inside a unique double helical chiral channels formed from Keggin POM and hexaquo-cobalt(II) units,” *Polyhedron* 2014, Vol 68, pp. 265-271. DOI:10.1016/j.poly.2013.10.027
23. N. Pal and A. Bhaumik, “Soft templating strategies for the synthesis of mesoporous materials: inorganic, organic-inorganic hybrid and purely organic solids,” *Advances in Colloid and Interface Science* 2013, Vol. 189-190, pp. 21-41. doi.org/10.1016/j.cis.2012.12.002
24. N. Pal, Md. M. Seikh and A. Bhaumik, “Magnetic properties of mesoporous cobalt–silica–alumina ternary mixed oxides” *Journal of Solid State Chemistry* 2013 Vol. 198, pp. 114-119. DOI:10.1016/j.jssc.2012.09.032
25. N. Pal and A. Bhaumik, “Self-assembled NiO-ZrO<sub>2</sub> nanocrystals with mesoscopic void space: an efficient and green catalyst for C-S cross-coupling reaction in water,” *Dalton Transactions* 2012, Vol 41, pp. 9161-9169. doi.org/10.1039/C2DT30343D
26. M. Paul, N. Pal and A. Bhaumik, “Selective adsorption and release of organic dye molecules on mesoporous borosilicates,” *Materials Science and Engineering C* 2012, Vol. 32, pp. 1461-1468. doi.org/10.1016/j.msec.2012.04.026
27. N. Pal and A. Bhaumik, “Ordered mesoporous ternary mixed oxide materials as potential adsorbent of biomolecules” *Chemical Physics Letter* 2012, Vol. 535, pp. 69-74. doi.org/10.1016/j.cplett.2012.03.037
28. M. Paul, N. Pal, J. Mondal and A. Bhaumik, “New mesoporous magnesium-aluminum mixed oxide and its excellent catalytic activity in liquid phase Baeyer-Villiger oxidation reaction,” *Chemical Engineering Science* 2012, Vol. 71, pp. 564-572. DOI:10.1016/j.ces.2011.11.038
29. N. Pal, M. Paul and A. Bhaumik, “Highly ordered Zn-doped silica: an efficient catalyst for transesterification reaction” *Journal of Solid State Chemistry* 2011, Vol. 184, pp. 1805-1812. doi.org/10.1016/j.jssc.2011.05.033
30. N. Pal, M. Paul and A. Bhaumik, “New mesoporous perovskite ZnTiO<sub>3</sub> and its excellent catalytic activity in liquid phase organic transformations” *Applied Catalysis A: General (Elsevier)* Vol. 393, yr 2011, page 153-160. doi.org/10.1016/j.apcata.2010.11.037
31. M. Paul, N. Pal and A. Bhaumik, “Mesoporous Nickel-Aluminum mixed oxide: A promising catalyst in hydride transfer reaction,” *European Journal of Inorganic Chemistry*, 2010, Vol. 2010, pp. 5129-5134. doi.org/10.1002/ejic.201000732

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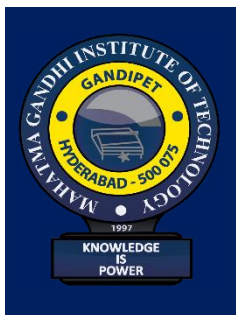
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32. M. Paul, N. Pal, M. Ali and A. Bhaumik, "New mesoporous silicotitaniumphosphate and its application in acid catalysis and adsorption of As(V), As (III) and Hg (II)," *Journal of Molecular Catalysis A: Chemical* 2010, Vol 330 pp. 49-55. DOI: 10.1016/j.molcata.2010.07.001
33. N. Pal, M. Paul, A. Bera, D. Basak and A. Bhaumik, "Synthesis, characterization and enhanced photoconductivity from a mesoporous titania on dye doping," *Analytica Chimica Acta* 2010, Vol. 674, Yr 2010, pp. 96-101. doi.org/10.1016/j.aca.2010.06.015
34. M. Paul, N. Pal, P. R. Rajamohanam, B. S. Rana, A. K. Sinha and A. Bhaumik, "New organic-inorganic hybrid microporous organosilica having high metal ion adsorption capacity," *Physical Chemistry Chemical Physics* 2010, Vol 12, pp. 9389-9394. doi.org/10.1039/B925619A
35. N. Pal, M. Paul and A. Bhaumik, "New extra large pore chromium oxophenylphosphate: An efficient catalyst in liquid phase partial oxidation reactions" *The Open Catalysis Journal* 2009, Vol 2, pp. 162-168, [DOI: 10.2174/1876214X00902010156]
36. M. Paul, N. Pal, B. S. Rana, A. K. Sinha and A. Bhaumik, "New mesoporous titanium-phosphorus mixed oxides having bifunctional catalytic activity" *Catalysis Communications* 2009, Vol. 10, pp 2041-2045. DOI:10.1016/j.catcom.2009.07.027

**Conferences:**

1. Mn incorporated highly ordered porous ceria-silica nanocomposites for biodiesel production. N. Pal, E. B. Cho, D. Kim and M. Jaroniec. 2nd International Conference on "Chemical, Bio & Environmental Engineering (CHEMBIOEN-2021)" held on virtual mode at Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar (NITJ), Punjab, India on 20-22nd August, 2021.
2. Highly porous silicotitaniumphosphate material and its application for toxic ion adsorption from Wastewater. N. Pal, M. Paul, M. Ali, A. Bhaumik. International Conference BRICS NUs: Water Resources and Pollution Treatment [WRPT21] (online mode) organized by NIT Durgapur and IIT Kanpur India on 6th-8th July, 2021.
3. 'Porous metal oxide composites: Scope and prospects' N. Pal Global Virtual Summit on Materials Science and Engineering (online) held during August 28-30, 2020.
4. Ca- and Li-based porous silica materials for environmental application: H<sub>2</sub> and CO<sub>2</sub> adsorption at ambient temperature and pressure. N. Pal, T. Kim, J.-S. Park and E.-B. Cho. International Conference on 'Materials Science for Societal advancement' (MSSA-2020), Jan 20- 22, 2020, Osmania University, Hyderabad.
5. Enzyme-free glucose sensor based on Ni(OH)<sub>2</sub> and NiO nanostructures, N. Pal, S. Banerjee and A. Bhaumik. 2nd International Conference on Nanoscience and Engineering Applications 2018 (ICONSEA 2018), Institute of Science & Technology, JNTU Hyderabad, Telangana, October 4-6, 2018.
6. Surfactant-assisted synthesis of nanostructured NiTiO<sub>3</sub>/NiO material and its role in non-enzymatic glucose biosensing. N. Pal, B. Saha, S. K. Kundu, A. Bhaumik and S. Banerjee. 4th International Conference on Advanced Nanomaterial and Nanotechnology (ICANN-2015), IIT Guwahati, Assam, India, December 8-11, 2015.
7. CeIVO<sub>2</sub>/Ce<sub>2</sub>IIIIO<sub>3</sub>-silica composite materials and their catalytic activity for liquid phase organic transformations. E.-B. Cho, N. Pal, D. Kim, C. A. Gunathilake, and Mietek Jaroniec. Spring Symposium 2014 of The Korean Institute of Chemical Engineering (KICChE 2014). CECO in Changwon, South Korea, April 23-25, 2014.

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8. Highly ordered mesoporous Ce-doped silica composites with high cerium content. N. Pal, D. Kim and E.-B. Cho. The 26th International Symposium on Chemical Engineering (ISChE 2013). BEXCO in Busan, South Korea, December 6-8, 2013.
9. Enhanced photoconductivity from a dye doped mesoporous TiO<sub>2</sub> synthesized by using a new Schiffbase template. N. Pal, J. Mondal, A. Modak and A. Bhaumik. International Symposium on Chemistry and Complexity, IACS, Kolkata, India, December 6-8, 2011.
10. India-Australia International Workshop on Nanotechnology in Materials and Energy Application (IAWNM), Jadavpur University, Kolkata, India, December 29-31, 2011.
11. Visible light-induced photodegradation of organic dye Rhodamine B over mesoporous CeO<sub>2</sub>-TiO<sub>2</sub> rich silica material. N. Pal\* National Convergence of Chemistry and Materials (CCM-2017), BITS Pilani, Hyderabad, Telangana, India, December 21-22, 2017.
12. Scope and future prospects of porous metal oxide nanocomposites N. Pal. National seminar on “Characterization And Processing of Advanced Materials (NSCPAM-2021)” (online) held at Govt. Pt. Shyamacharan Shukla College, Dharsiwa, Raipur (C.G.) on 26th June 2021 and has been awarded ‘1st Best Oral Presentation’.
13. Ni Doped Silica Yolk-Shell Porous Nanostructures for Non-enzymatic Glucose Sensing. N. Pal, S. Banerjee, E. Choi, and E.-B. Cho. National conference on Physics and Chemistry of Functional Materials 2019 (PCFM 2019) February 21-22, 2019, Department of Physics, GITAM University, Hyderabad.
14. Mesoporous Zn doped titania nanoparticles: a good bifunctional catalyst for oxidation and bezylation reactions. N. Pal, L. Paul, A. Bhaumik and M. Ali. National Conference on Recent Development and Applications of Nanoscience and Nanotechnology (Nano Tech 2012). Techno India, Salt Lake, Kolkata, India, Sept. 14-15, 2012.

**Research & Consultancy:**

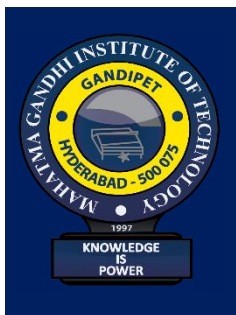
1. TEQIP-III, JNTUH Collaborative Research Scheme project on “Nanostructured Materials: Morphology Controlled Synthesis, Properties and Their Advanced Applications in Drug Delivery” for Rs. 2,50,000/- during 2019-2020 with Dr. Surinderpal Singh, CMR Medchal Hyderabad. (Role: PI)

**No. of Books/Chapter Published with details:**

1. N. Pal and A. Bhaumik, “Functionalized mesoporous materials as sustainable catalyst for liquid phase catalytic transformation,” Sustainable Catalysis Process-1st Ed., Elsevier, (ISBN. 9780444595676), 2015, Chapter 2, pp 23-60. doi.org/10.1016/B978-0-444-59567-6.00002-9

**Events Organized:****FDPs/STTPs:**

1. Online FDP on “Materials for Photonic Applications” on behalf of the Department of P&C, Mahatma Gandhi Institute of Technology, Hyderabad on 9th-13th August 2021. (Organizing Committee Member)
2. Online FDP on “The Role of Material Science in Engineering: Application Perspectives” on behalf of the Department of P&C, Mahatma Gandhi Institute of Technology, Hyderabad on 3rd-7th August 2020. (Organizing Committee Member)

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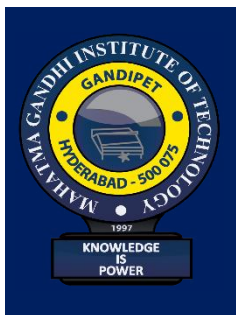
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**Events Attended****FDPs/STTPs:**

1. Participated in International Virtual conference in Nanoscience and Nanotechnology (ICANN2021) by Bharat Institute of Higher Education and Research, Chennai, TN on 5th-6th Feb, 2021.
2. International Conference on Materials Science for Societal Advancement (MSSA-2020), January 20th to 22nd, 2020, Osmania University, Hyderabad.
3. National conference on Physics and Chemistry of Functional Materials 2019 (PCFM 2019) February 21-22, 2019, Department of Physics, GITAM University, Hyderabad.
4. 2nd International Conference on Nanoscience and Engineering Applications 2018 (ICONSEA 2018), Institute of Science & Technology, JNTU Hyderabad, Telangana, October 4-6, 2018.
5. National Convergence of Chemistry and Materials (CCM-2017), BITS Pilani, Hyderabad, Telangana, India, December 21-22, 2017.
6. 4th International Conference on Advanced Nanomaterial and Nanotechnology (ICANN-2015), IIT Guwahati, Assam, India, 08-11 December, 2015.
7. 3rd Nanotechnology seminar on 'Bringing the Nanoworld Together' organized by Oxford Instruments, India at Saha Institute of Nuclear Physics, Kolkata, India, November 24-25, 2014.
8. Spring Symposium 2014 by The Korean Institute of Chemical Engineering (KICChE 2014). CECO in Changwon, South Korea, April 23-25, 2014.
9. The 26th International Symposium on Chemical Engineering (ISChE 2013). BEXCO in Busan, South Korea, December 6-8, 2013.
10. International Symposium on Molecular Organization And Complexity: A Chemical Perspective (ISMOC 2013). Department of Chemistry, University of Calcutta, Kolkata, India, February 6-8, 2013. Venue: Saha Institute of Nuclear Physics (SINP), Salt Lake, Kolkata, India.
11. National Conference on Recent Development & Applications of Nanoscience & Nanotechnology (Nano Tech 2012). Techno India, Salt Lake, Kolkata, India, September 14-15, 2012.
12. Acharya P C Ray National Young Scientists' Conference, Presidency University, Kolkata, India, February 17-18, 2012.
13. India-Australia International Workshop on Nanotechnology in Materials and Energy Application (IAWNM). Jadavpur University, Kolkata, India, December 29-31, 2011.
14. International Symposium on Chemistry and Complexity. IACS, Kolkata, India, December 6-8, 2011.
15. 13th CRSI-RSC National symposium in Chemistry, NISER, Bhubaneswar, India, February 4-6, 2011.
16. Trends in Surface Science and Related areas. Indian Society for Surface Science and Technology and Centre for Surface Science, Jadavpur University, Kolkata, India, May, 2008.

**Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:**

1. Attended a 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" by Teaching Learning Centre, Ramanujan College, University of Delhi, by MINISTRY OF EDUCATION, PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING, on Aug 21st-Sept 19, 2021.

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- [https://twitter.com/MGIT\\_hyderabad](https://twitter.com/MGIT_hyderabad)

2. Participated in Indo-French International virtual workshop on “Recent Advances and Applications of Conducting Polymer Nanostructures and Nanocomposites” (RA2CPNC) during 23rd-24th June 2021.
3. Participated in NATIONAL SEMINAR on "Advanced Nanomaterials For Sustainable Development and Energy Applications" at SRM Institute of Science and Technology, Ramapuram Campus, Chennai, TN, India on 28th May 2021.
4. Attended ACS Science Virtual Talk on ‘Utilizing Light for Environmental Applications: Photo(electro) catalysis’ on Virtual platform on 28th May 2021, 5-6 pm.
5. Active participation in International Webinar Series on ‘Advanced Topics in Chemistry’ organized by Department Of Chemistry, St. Joseph’s College (Autonomous) Devagiri, Calicut, Kerala-673 008, India, on Sept. 9, 2020.
6. Active participation in online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) during 24-28 August, 2020.
7. Active participation in International Webinar on “Advanced Functional Materials” organized by Department of Chemistry & Physics, Nizam College, Osmania University, Hyderabad, Telangana State, India held during 18th -21st August 2020.
8. Active participation in Two Day National Level Virtual Workshop on “The Role of Chemistry in Modern Healthcare” organized by Department of Physics and Chemistry, Mahatma Gandhi Institute of Technology, Hyderabad on 3rd- 4th July 2020.
9. Active participation in Online Workshop on ‘Social Responsibility and Community Engagement’ conducted by “Chaitanya Bharathi Institute of Technology”, Hyderabad conducted on 17th June 2020.

**Online Certifications:**

1. Completed Short term Course on 'Introduction to Molecular Spectroscopy" via Coursera in Sept 2020.
2. Certificate of energy literacy for short course on "Learn to Design your own Solar Home System" on September 3, 2020.
3. NPTEL-AICTE Approved FDP Course on “Analytical Chemistry” conducted by Prof. Debashish Ray IIT Kharagpur. Duration: 12 weeks; Sep. – Dec. 2020.
4. Certified Coursera Course on the topic “Introduction to Molecular Spectroscopy” Duration: 4 Weeks, Completed on September 2020.
5. NPTEL - AICTE Approved FDP Course on “Coordination Chemistry” (12-week course) in July-Oct 2019 through online Swayam-NPTEL Portal.
6. NPTEL - AICTE Approved FDP Course on “Organometallic Chemistry (4-week course) in Jan-Feb 2019” through online Swayam-NPTEL Portal.

**Any Other Contribution:**

1. Active Reviewer of many scientific journals of Elsevier, Royal Society of Chemistry, Springerlink, American Chemical Society, etc.