

Dr. AJAY GIRI GOSWAMI

**M.Tech (Chemical Engineering & Technology),
M.B.A. (HRD & Mktg.)
Ph.D. (Chemical Engineering & Technology).**

**Head, Dept. of Pharmaceutical Technology,
Faculty Chemical Engineering Dept.
University Institute of Chemical Technology,
KBC, North Maharashtra University, Jalgaon.**



1. Address: -

Head, Dept. of Pharmaceutical Technology
University Institute of Chemical Technology UICT,
KBC, North Maharashtra University, Jalgaon
Pin 425001(M.S.) INDIA.
Email Id: -goswamiakg1@gmail.com.

2. Membership of Professional Bodies: -

Life Member- INDIAN SOCIETY FOR TECHNICAL EDUCATION.
Life Member- OIL TECHNOLOGISTS ASSOCIATION OF INDIA.
Life Member- INDIAN INSTITUTE OF CHEMICAL ENGINEERS.
Life Member- MATERIAL RESEARCH SOCIETY OF INDIA.
Life Member- SOCIETY FOR POLYMER SCIENCE INDIA.
Member- INTERNATIONAL MULTIDISCIPLINARY RESEARCH FOUNDATION.

3. Total Teaching Experience: 23 Years

(23 years at BE /B. Tech Level & 12 years at M. Tech. Level)

The details are as below: -

Sr. No	Designation	Department	University/College	From	To
01	Lecturer	Chemical Technology	UDCT,Amravati University	Jan. 1997	April 1998
02	Lecturer	Chemical Engineering	K.E.S.N.N.Patil Engineering college, Pen	July 1998	Feb. 2005
03	Assistant Professor	Chemical Engineering	DattaMeghe College of Engineering,Airoli, NaviMumbai	Feb. 2005	July 2008
04	Reader	Chemical Engineering	University Institute of Chemical Technology,North Maharashtra University,Jalgaon	July 2008	June 2011
05	Associate Professor	Chemical Engineering	University Institute of Chemical Technology,North Maharashtra University,Jalgaon	July 2011	Till date.
06	Head of the Department	Pharmaceutical Technology	University Institute of Chemical Technology,North Maharashtra University,Jalgaon	May 2016	Till date

4. Area of Research/ Expertise:

Chemical Engineering, Petroleum refining and Petrochemical engineering and technology, Oil Technology, Polymers engg., Nano membranes, nano catalyst, Pharmaceutical Tech., Drug Delivery, Biofuels, Alternative diesel fuels, Mass Transfer, Liquid liquid and solid Liquid Extractions, Process dynamics and Control, nano synthesis etc.

5. Awards prizes academic, research, sports etc received:

- Won the Second Prize in a Hackathon titled biotech/engg.solution for crop burning conducted by IIT Kanpur and Biotech Consortium India Ltd. On 23, 24 March 2018 at Indian Institute of Technology (IIT), Kanpur.
- Awarded with National Best Scientist Award- 2021 in Chemical Technology on 11th November 2021 by International Multidisciplinary Research Foundation IMRF, India, registered with Govt. of India NITI AAYOG, Govt. of Andhra Pradesh Vijayawada.
- As per list published by AD Scientific Index, USA during July 2021, recognition as a world scientist based on research papers of last five years.
- Best oral presentation award for a Research Paper entitled, Transesterification for biodiesel-a review, A.K.Goswami, at 7th International conference on computer engineering and technologies ICACET-2019, 1 Dec.2019 at Pune.
- Won the Second prize in paper presentation on National Conference Recent Advances in Chemical Engineering RACE 2012, at North Maharashtra University, Jalgaon in 2012.
- National Institute of Socio-Economic Development Bangalore being considered for the prestigious Dr APJ Abdul Kalam lifetime achievement National award for remarkable achievement in the field of teaching, research and publications in 2021.
- Qualified INDOMAT entrance test conducted by CMC Ltd (A GOI Enterprise) on Aug 1996.
- Qualified Common Entrance Test with 74 percent score organized by Directorate of Technical Education Maharashtra during 1998.
- Winner Badminton Singles, University Teaching/ Non-teaching/Administration- sports Events at NMU,Jalgaon during 2011-2016.
- Member of playing eleven Winning Cricket Team, University Teaching/ Non-teaching/Administration - sports Events at NMU,Jalgaon during 2011-2016.

6. Countries Visited (International Exposer- academic/industry/tour/research) –

China, France, Italy, Austria, Germany, Vienna, Liechtenstein,Nepal

Malaysia, Singapore, Switzerland, Thailand, Vatican City, geneva etc.

7. Leadership Experience: -

- **Member, Board of Governance (BOG)**, TEQIP-III (MHRD), UICT, KBC North Maharashtra University, Jalgaon.
- **Member, Board of Studies (BOS)** Chemical Engineering, KBC North Maharashtra University, Jalgaon.
- **Member, Institutional Chemical Research Ethics Committee**, KBC North Maharashtra University, Jalgaon.
- **Member, Institutional Research Advisory Committee (RAC)** UICT, KBC North Maharashtra University, Jalgaon.
- **Start-up Cell Coordinator** of UICT, KBC North Maharashtra University, Jalgaon.
- **Co-ordinator Institute Innovation Cell (IIC)**, UICT, KBC North Maharashtra University, Jalgaon.
- **Head of the Department**, Department of Pharmaceutical Science and Technology, KBC North Maharashtra University, Jalgaon.
- **Co-ordinator KCIL Innovation & Entrepreneurship Development Cell (K-IEDC)**, UICT, KBC North Maharashtra University, Jalgaon.
- **Student Recreation Coordinator** of UICT, KBC North Maharashtra University, Jalgaon.
- **Co-ordinator UICT Employability Assessment Cell** under TEQIP-III.
- **Teacher Parent Cell Coordinator** of UICT, KBC North Maharashtra University, Jalgaon.
- **Academic Committee**, UICT Co-Coordinator and Member KBC North Maharashtra University, Jalgaon.
- **Co-ordinator UICT Diagnostic Assessment Cell** under TEQIP-II KBC North Maharashtra University, Jalgaon.
- **Observer National Testing Agency** for online examinations such as NEET, JEE, NET, CMAT, GPAT etc.

- **B.Tech.Examination Coordinator**-UICT for Chemical Engg during July 2016 to June 2018, worked under whole responsibility of conducting External Theory, Practical Exams, both Internal Exams, Central Assessment Program at UICT during complete tenure of 2 years.
- NBA Coordinator UICT for Post Graduate M.Tech courses during 2015-16.
- AICTE Observer- CMAT, GPAT- All India Entrance conducted by AICTE New Delhi, conducted at various Engineering, Management Institute, at Nashik from 2012-2016. Also worked as, AICTE Committee Member for Inspection of Engineering Colleges approved by AICTE.
- Vice Chancellor Nominee for selection of Teachers (Professor/Associate Professor/Assistant Professor/Lecturer) by University Committee of North Maharashtra University, Jalgaon in various Private Engineering Colleges.
- **B.Tech.Examination Coordinator**- UICT for Chemical Engg during July 2012 to June 2014, worked under whole responsibility of conducting External Theory, Practical Exams, both Internal Exams, Central Assessment Program at UICT during complete tenure of 2 years.
- Organized **Youth Technologist Startup Conclave-2019**(jointly organized by UICT & UPTTI Kanpur Startup Cell) as **Convenor & organizing Secretary** at UICT, KBCNMU, Jalgaon on 22nd Jan.2019.
- Organized **Entrepreneurship Summit 2K18 Youth Technologist Startup Conclave-2019**(jointly organized by UICT & UPTTI Kanpur) as an**Organizing Secretary** at UPTTI, Kanpur on 24th March.2018.
- Organized **Young Innovators Summit-2018**(jointly organized by UICT & UPTTI Kanpur) as **Convenor** at UPTTI Kanpur on 23rd Oct. Jan.2018.
- Organized one day **workshop on Entrepreneur and Innovation** as **Convenor** at UPTTI Kanpur on 25th Sept.2019.

- Organized one day **workshop on My Story-Innovators life and crossworld** as **Convenor** at UPTTI Kanpur on 26th Sept.2019.
- Organized two-day **Hackathon on Smart textile hackathon-2019** as capacity of **Program Convenor** at UPTTI Kanpur on 27-28th Sept.2019.
- Organized **one week workshop on Material characterizations and instrumentation techniques** as **Organizing secretary** at UICT, KBCNMU, Jalgaon from 15th -20th July 2019 under aegis of TEQIP-III.
- Worked as LIC Committee Member, Refree for Research Festivals like Avishkar etc.
- Worked as a Member for Automation Committee for organization of University Level Avishkar - 2013 on 18-19 Oct. 2013.
- Worked as a Member of purchase and distribution of Memento Committee for organization of State Level Avishkar-2013 on 16-18 Jan.2013.
- Worked as a Member for Food Committee for organization of State Level Avishkar-2013 on 16-18 Jan.2013, North Maharashtra University, Jalgaon.
- Worked as a Member of Organizing committee for Avishkar-2014 on 16-18 Jan.2014, North Maharashtra University, Jalgaon.
- Worked as a Refree for evaluation of Posters at District Level Research Festival, Avishkar 2013 on 5 Oct.13 at by Z.B.Patil College, Dhule.
- Worked as a Refree for evaluation of Posters at District Level Research Festival, Avishkar 2016(03/01/17) at by Vidyavardini College,Dhule.
- Coordinator under Upakram – IAS Aaplya Bhetila ,UICT,KBC North Maharashtra University, Jalgaon.
- Coordinator under Upakram – Udyojak Aaplya Bhetila ,UICT,KBC North Maharashtra University, Jalgaon.

- Organized as a organising secretary, one week Workshop on Material characterizations and instrumentation techniques at UICT, KBCNMU, Jalgaon from 15th July 2019-20th July 2019 under aegis of TEQIP-III.
- Member Management Council, Guruvarya Ddasaheb Bowa Shikshan Sanstha, Malegaon Dist.-Nashik from 2012 to 2017.
- Worked as Chairman, University Institute of Technology Library inspection committee during June 2021.
- Organized as a capacity of Convener, National Workshop on Material characterizations and instrumentation techniques at UICT, KBCNMU, Jalgaon from Jan 2020 under aegis of TEQIP-III.
- Organized online workshop cum interactive session as a capacity of Coordinator under UICT KCIL Cell on Technological Innovation to Entrepreneurship on 7th September 2021.
- Organized online workshop cum interactive session as a capacity of Coordinator under Startup and IIC Cell on Projecting Candidature -What does Industry look for while hiring 29 th October 2021.
- Organized online workshop cum interactive session as a capacity of Coordinator under Startup and IIC Cell on Crude oil with classification and its role in Refinery configuration 27 th November 2021.
- Member, International Multidisciplinary Research Foundation Institute of higher education and research, Vijayawada A.P., India.
- Organized as a capacity of Convener, Workshop on Advanced Instrumentation & Characterization Techniques at UICT, KBCNMU, Jalgaon on 3rd & 4th Feb 2020 under aegis of TEQIP-III.

8. Research Papers Published in International /National Journals and Conferences –

1. Sirsath N R, Goswami A K , Design and development of sustain release vidagliptin loaded silica nanoparticles for enhancing oral bioavailability ,BioNanoScience , Springer Nature (April 2021)11:324-335.
2. Sirsath N R, Goswami A K. Vildagliptin-loaded gellan gum mucoadhesive beads for sustained drug delivery: design, optimisation and evaluation. Vol10: 1-3.DOI: 10.1080/10667857.2020.1786783,, Materials Technology, Taylor & Francis(2020).
3. Nitin R. Shirsath and Ajaygiri K. Goswami, Design and Development of Solid Dispersion of Valsartan by a Lyophilization Technique: A 3² Factorial Design Approach, Micro and Nano System (2020) , Vol. 12, No. 2, Bentham Science publication.
4. Shirsath Nitin R, Goswami Ajaygiri K., Natural Phytochemicals and Their Therapeutic Role in Management of Several Diseases: A Review, Current Traditional Medicine, 5: 1. (2019) Bentham Science publication.
5. Nitin R. Shirsath, Ajaygiri K. Goswami, Nanocarriers Based Novel Drug Delivery as Effective Drug Delivery: A Review, Current Nanomaterials, 4(2) (2019) 71-83 Bentham Science publication.
6. Sirsath Nitin, A K Goswami. Vildagliptin-loaded gellan gum mucoadhesive beads for sustained drug delivery:design, optimisation and evaluation.10:1-3., Materials TechnologyJournal of Taylor & Francis publications.
7. Shirsath Nitin, Goswami Ajaygiri. JagtapVaibhavkumar, Formulation and Development of Famotidine Solid Dispersion Tablets for their Solubility Enhancement. Indian J of Pharmaceutical Education and Research. 2019;53(4s): s548-s53.
8. MayurDarekar,A.K. Goswami K.K. Singh, Pallavi Sapkale,. On microfluidic solvent extraction of uranium, Chemical Engineering and Processing-Process Intensification,132 (2018) 65-75 Elsevier publication.
9. Nitin R. Shirsath and Ajaygiri K. Goswami, Design and development of solid dispersion of Valsartan by a Lyophilization Technique- A 3² Factorial Design Approach, , Vol. 12, No. 2, 2020, Micro & Nanosystemjournal, Bentham Science publisher.
10. Study on Process and Properties of Poly ether ketone ketone, AkashSirsath, A.K.Goswami, Materials Today, Elsevier Publications,ISBN: 978-93- 5254-230- 7(2016).
11. A research paper entitled,Denitration of high Nitrate bearing Alkaline Waste using two stage chemical and biological process,Ajaygiri K. Goswami,SayaliTitre, AkshayJakhete, AvinashSahu, Tessy Vincent, Mahendra L. Bari, is published in Materials, Energy and Environment Engineering in proceedings of ICACE 2015 In Springer Nature Singapore Pte Ltd 2017, pp 101-110, ISBN 978-981-10-2674-4, DOI 10.1007/978-981-10-2675-1.

12. Sandhya S Gedam, A K Goswami, Ashutosh K Chaudhary, R P Vijayakumar, Ganesh S Bajad, Dharm Pal. Thermal, mechanical and morphological study of carbon nanotubes-graphene oxide and silver nanoparticles based polyurethane composites, *Materials Research Express*, 6(8)(2019).
13. Vapour phase isomerisation of ortho-toluidine over modified supported Mo oxide catalysts: Influence of process parameters and metal loadings on catalytic and thermodynamic properties, MarghadeNeha, Goswami A.K. Chumbhale V.R. , *Research Journal of Chemical Sciences, International Science Congress Association*, Vol. 5(7), 1-7, July (2015).
14. Sunil J. Kulkarni, Ajaygirigoswami. Isotherm, Kinetics and Trickling Flow Studies for Removal of Chromium from Synthetic Effluent by using Mixed Fruit Peels (MFP), *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8(6S) (2019) 430-433.
15. Synthesis of Graphene oxide via modified Hummer's Approach and its Characterization, Prachi Kate, A.K. Goswami, *i-managers Journal on Material Science*, pp-18-22, vol.4, No.3, Oct-Dec 2016.
16. Study of Petroleum Characterization of Cottonseed Oil derived Biodiesel Ajaygiri K. Goswami, G. A. Usmani, *TERI Information Digest on Energy and Environment (TIDEE)*, The Energy and Resource Institute, India, vol.14, No.3 September 2015, and ISSN 0975-7589.
17. Sandhya S. Gedam, Ajaygiri K. Goswami. Studies on Generation of Hydrogen by Water Splitting Method using Metal, *International Journal of Creative Research Thoughts (IJCRT)* 6(1)(2018)2119-2123.
18. Hitesh rawate, A.K. Goswami, Study on interfacial science and rheology, *International journal of research in advent technology*, 4(4s) (2019) 519-522.
19. Hitesh rawate, A.K. Goswami. Importance of interfacial rheology and its applications, *Journal of Emerging Technologies, and Innovative Research*, 5(11) (2018) 312-320.
20. Study of Microalgae-based Methyl ester as an Alternative Fuel for Petro Diesel, Ajaygiri K. Goswami and Ghyas. A. Usmani, *Journal of Biofuels (JOB)*, vol.6, No. 1, Jan- June 2015, ISSN 2349-974.
21. Fluid Solid Heat Transfer in cyclone Heat Exchanger, S.N. Jain, S.A. Raut V.N. Mawal K. L. Wasewar, *i-manager's Journal on Future Engineering & Technology*, Vol. 7, No. 1, August - October 2011 (53-60).
22. Heat Transfer in Helical coil Heat Exchanger, V.N. Mawal, A.K. Goswami, S.N. Jain, K.L. Wasewar, *i-manager's Journal on Future Engineering & Technology*, Vol. 6, No. 3, February - April 2011 (35-40).
23. Effect of excess fertilizers and nutrients: a review on impact on plants and human population, Sunil Kulkarni, Ajaygiri Goswami, *International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019)*, pp 2094-2099.

24. Effect of reaction parameters on transesterification of waste soybean oil biodiesel yield and analysis of biodiesel blends with petroleum diesel fuel, Ajaygiri K. Goswami, G. A. Usmani, Cyber Times International Journal of Technology and Management, Vol. 7, Issue 2 Page No. 8-13 ISSN: 2278 – 7518, April-sept.2014.
25. Experimental study: Effect of process parameters on palm oil methylester yield, A.K.Goswami, G. A. Usmani, PrachiKate, International Journal of Engineering trends and Technology, special issue, Jan.2016, pg 382-385, ISSN 2231-5381.
26. Heat Transfer in Helical coil Heat Exchanger, V.N. Mawal, A.K. Goswami, S.N. Jain, K.L. Wasewar, i-manager's Journal on Future Engineering & Technology, Vol. 6, No. 3, February - April 2011 (35-40).
27. Fluid Solid Heat Transfer in cyclone Heat Exchanger, S.N. Jain, S.A. Raut V.N. Mawal K.L. Wasewar, i-manager's Journal on Future Engineering & Technology, Vol. 7, No. 1, August - October 2011 (53-60).
28. Studies and Research on operation, Modeling and Simulation of Boilers: A Review, S.J.Kulkarni, A.K.Goswami, International Journal of Scientific Research in Science and Technology (IJSRST) accepted on 27 sept.2015 for issue sept.oct.2015 [(1) 4:59-61].
29. Research and Review on Refrigeration-A Summery, S.J.Kulkarni, A.K.Goswami, International Journal of Modern Trends in Engineering and Technology, Volume 2, Issue9, Sept. 2015, ISSN 2349-9745.
30. Applications, Advancements and Research on Drying- A Review, S.J.Kulkarni, A.K.Goswami, International Journal for Research in Applied Science and Engineering Technology, Volume 3, Issue VIII, August 2015, PP 231-233, ISSN 2321-9653.
31. A Review on Ethanol Production From Agricultural Waste Raw Material, S.J.Kulkarni, A.K.Goswami, NileshShinde, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset), Volume 1, Issue 4, August 2015, PP 231-233, ISSN 2394-4099.
32. A Review on Use of Chromatography for Analytical Applications, S.J.Kulkarni, A.K.Goswami, NileshShinde, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset), Volume 1, Issue 4, August 2015, pp283-285, ISSN 2395-1990.
33. A Review of Wastewater Treatment for Petroleum Industries and Refineries, S.J.kulkarni, A.K.Goswami, International Journal of Scientific Research in Science, Engineering and Technology (ijsrset.), Volume 1, Issue.3, June 2015, pp,280-283, ISSN2395-1990.
34. Treatment and Recovery for Flue Gases: A Review, S.J.Kulkarni, A.K.Goswami, NileshShinde, International Journal of Reserch (IJR), Volume 2, Issue 6, June 2015 pp.515-519, ISSN 2348-795.
35. Adultration in Food Products: a Review, S.J.Kulkarni, A.K.Goswami, International Journal of Reserch Volume 2, Issue 6, June 2015, PP 621-624 ISSN 2348-795.

36. Characterization, Treatment and disposal of sludge: A Review, Sunil J. Kulkarni, Ajaygiri K. Goswami, International Journal for Research in Applied Science & Engineering Technology(IJRASET), vol-2, Issue-XII, Dec.2014, pp 516-517, ISSN No. 2321-9653.
37. Adsorption for waste gas treatment: A short Review, Sunil J. Kulkarni, Ajaygiri K. Goswami, International Journal for Research in Applied Science & Engineering Technology (IJRASET), vol-2, Issue-XII, Dec.2014, pp514-515, ISSN No. 2321-9653.
38. Studies and Research on Friction, Friction Factor and Affecting Factors: A Review, Sunil J. Kulkarni, Ajaygiri K. Goswami, International Journal of Engineering Science and Research Technology, vol-3, Issue-10, Oct.2014, pp 355-359, ISSN No. 2277-9685.
39. Research on application of Hydrotopy: A Review, Sunil J. Kulkarni, Ajaygiri K. Goswami, International Journal Science, Engineering and Technology Research, vol-3, Issue-10, Oct.2014, pp 2617-2619, ISSN No. 2278-7798.
40. Characterization of Biodiesel Obtained from Pure Soybean Oil and Its Various Blends with Petro-Diesel A.K. Goswami, G. A. Usmani, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 9, pp16287-16293, September 2014, ISSN No. 2319-8753.
41. A Review on study and research for biodiesel production for various feedstocks, Sunil J. Kulkarni, Ajaygiri K. Goswami, International Journal of Engineering Research and Management(IJERM), Vol.1, Issue-6, pp136-138, September 2014, ISSN No. 2349-2058.
42. Applications and Advancements in Treatment of Waste Water by Membrane Technology- A Review, Sunil J. Kulkarni, Ajaygiri K. Goswami, International Journal of Engineering sciences and research Tech., pp 446-450, Sept.2014, ISSN No. 2277-9655.
43. Fly Ash as a low cost adsorbent to remove dye, A.K.Goswami, S.J.Kulkarni, S.K.Dharmadhikari, P.E.Patil, International Journal of Science, Research and Management, vol.2, Issue 5, May 2014, (pp 842-845).
44. Comparative studies on removal of heavy metals from wastewater by low cost adsorbents, S.J.Kulkarni, A.K.Goswami, International Journal of Engineering and technology Research, vol.2, Issue 3, May-june 2014, (pp 95-99).
45. Study of linseed oil biodiesel as an alternative fuel and its petroleum characterization of various blends with diesel, Ajaygiri K. Goswami, G. A. Usmani, International Journal of Engineering Technology and Computer Research (IJETCR), Vol. 2 Issue 4 Page No. 77-82 ISSN: 2348 – 2117, Aug.2014.
46. Adsorption of Chromium from Wastewater on Different Adsorbents, Kulkarni Sunil J., Patil Suhas V., Tapre Ravi W., Goswami Ajaygiri K., International Journal of Research in Chemistry and Environment Vol. 3 Issue 1, January 2013(231-236) ISSN 2248-9649.
47. A Research paper entitled Study of process parameters of biodiesel production from cottonseed oil, Ajaygiri K. Goswami, G.A. Usmani, published in International Proceedings of Chemical, Biological & Environmental Engineering, Informatics, Environment, Energy and Applications III, pg.no.102-105, ISBN 978-981-07-9534-4, IPCBEE vol-66, 2014, ISSN 2010-4618.

48. Adsorption of Copper (II) ions from synthetic waste water by fly ash, A.K.Goswami,S.J.Kulkarni,S.K.Dharmadhikari,International Journal of science,engineering and technology Research,vol.2,no.6 June 2013(1353-1355).
49. Adsorption of Copper (II) ions from synthetic waste water byTeakLeaves,A.K.Goswami,S.J.Kulkarni,S.K.Dharmadhikari, International Journalofscience,engineering and technology Research,vol.2,no.6 June 2013(1356-1359).
50. Methylester by Transesterification of Jatropha, Cottonseedand Used Cooking Oils as an Alternative Fuel for Petrodiesel A.K. Goswami, G.A. Usmani, Mayur. P. Patil, Invertis Journal of Renewable Energy, vol-3, No.02, June 2013 pp 89-96.
51. Adsorption Studies for organic matter removal from wastewater by using bagasse flyash in batch and column operations,S.J.Kulkarni, A.K.Goswami, International Journal of science and Research,vol.2,Issue 11,Nov 2013,pp 180-183.
52. Performance evaluation of hybrid membrane bioreactor for low strength wastewater treatment,R.V.Dahake, A.K.Goswami, Dr.Kalyanraman, S.J.Kulkarni, International Journal of science,engineering and technology Research,vol.2, Issue 12,December 2013,(pp 2167-2169).
53. Investigation on Very Low Temperature Membrane Free Desalination By Using Soybean Oil as Directional Solvent, TejasMhatre, A K Goswami,VinodAhire , accepted in Applied Water Science Journal, Springer Publication.
54. Chemical Engineering Principles for Intensification of Domestic Operations, A.K.Goswami, S J Kulkarni,accepted for publication in International Journal of emerging trends in engineering research- Scopus Indexed journal(2020).
55. Research Paper entitled "Life prediction of tire tread compound by Arrhenius Approach under dynamic heat ageing condition" Ashok Singh, Chandresh D, Ranjith P,K Rajkumar, A. K. Goswami, P Thavamani, proc. Of Emerging Trends in Developing Eco-Friendly and Energy Efficient Elastomeric Material and Processing Technology, 2012, Page No.24-34.
56. Transesterification for biodiesel-a review A.K.Goswami, S J Kulkarni,accepted for publication in International Journal of advanced trends in computer science engineering- Scopus Indexed journal ISSN No. 2278-3099(2019).
57. Research Paper entitled on Pharmacognostical and Phytochemical Characterization of Stem of Cassia Spectabilis, A K Goswami,Sirsath N, published in Navigating the Future, proc., ISBN 978-93-88544-95-5 pg no 274-280,2019.
58. Research paper published, An Insight into Solution to Water Scarcity through Reuse and Recycle Technology, pg no 1157-1162.vol-68, Issue-30, Feb 2020, ISSN -0474-9030 Our Heritage Journal.

59. Research paper entitled an insight into an investigation on intensification of adsorbents beds published in advanced material proc.2020, pg no 1-65(4) 24040011 c IAAM VBRI press.
60. Research paper published Selection, Execution, Evaluation and Monitoring of Student Projects at Undergraduate Level in Chemical Engineering A.K. Goswami, S J Kulkarni in Our Heritage Journal pg no 101-105, vol 22, No.2,2020.
61. Studies and Investigations on Various Aspects of Aerobic and Anaerobic Treatments for Sewage and Industrial Effluent Sunil Jayant Kulkarni 1* and Ajaygiri Kamalgiri Goswami, Book chapter communicated to BP International, London (2021).
62. "Politics and Ethical Aspects in Private Engineering Colleges in India- a Cause of Concern," which was submitted for inclusion in the title Intellectual Capital in Educational Institutions in the Post-COVID-19 Era: Challenges and Opportunities submitted as book chapter to IGI Global e Editorial Discovery (2021).
63. "Effect of Reaction Parameters on Transesterification of Waste Soybean oil biodiesel Yield and analysis of biodiesel blends with Petroleum diesel fuel", Ajaygiri. K. Goswami, G. A. Usmani, Cyber Times International Journal of Technology and Management, Jan.2015, vol. VII, Issue -2 pp 8-13.
64. Study of process parameters of biodiesel production from cotton seed oil, Ajaygiri K. Goswami, G. A. Usmani, published in (IACSIT) Press, Singapur, DOI 10.7763/IPCBE 2014, Vol.66, pp102-105(2014).
65. "Experimental Study: Effect of Process Parameters on Palm Oil Methyl ester yield", Ajaygiri K. Goswami, G. A. Usmani, Prachi Kate, International Journal of Engineering Trends and Technology, with ISSN: 2231-5381, SJIF: 1.795(2011-2014).
66. "Life prediction of tire tread compound by Arrhenius Approach under dynamic heat ageing condition" Ashok Singh, Chandresh D, Ranjith P, k Rajkumar, A. K. Goswami, P Thavamani, Emerging Trends in Developing Eco-Friendly and Energy Efficient Elastomeric Material and Processing Technology Jan.2012.
67. Presented a research paper on entitled "Isotherm, Kinetics and Trickling Flow Studies for Removal of Chromium from Synthetic Effluent by using Mixed Fruit Peels (MFP)" at international conference on advent trends in eng. Sci. and management (ICATESM-2019), at Nasik on 17th March 2019.
68. Presented a Paper entitled "A carrier based novel strategy as effective drug delivery: Review." Shirsath Nitin, Ajaygiri K. Goswami in CHEMCON-2018, 27-28 Dec.2018 at DBRA NIT, Jalandhar, Punjab.
69. Presented a Research Paper entitled "Discovery of pharmacognostical parameter on stem of cassia spectabilis." Shirsath Nitin, Ajaygiri K. Goswami in CHEMIX-2019, 30-31 March 2019 at VNIT, Nagpur.

70. Presented a Research Paper entitled "Effects of excess fertilizers and nutrients: A Review on impact on plants and human populations." S. J.Kulkarni, Ajaygiri K. Goswami in International conference on Sustainable computing in science , Technology and Management(SUSCOM-2019) , 26-28 Feb.2019 at Amity University Rajasthan, Jaipur.
71. Presented a Research Paper entitled "Effect of Reaction Parameters on Transesterification of Waste Soybean oil biodiesel Yield and analysis of biodiesel blends with Petroleum diesel fuel", Ajaygiri. K. Goswami, G. A. Usmani, in the International Conference on Global trends in Engineering, Technology and Management 2015 (ICGTETM), 9-11 January 2015 at SSBT's, COET, Bambhori, Jalgaon.
72. Presented a research paper entitled Characterization study of used soybean oil methylester biodiesel as an alternative diesel fuel and their blends with market diesel fuel,Ajaygiri K. Goswami, G. A. Usmani at International Conference, Third Global Sustainable Biotech Congress 2014,december 1-5,2014, at North Maharashtra University, Jalgaon collaboration with Global Biotech Forum ,Nagpur and Cetys University, Mexico.
73. Presented a paper entitled Study of process parameters of biodiesel production from cotton seed oil, Ajaygiri K. Goswami, G. A. Usmani, at 3rd International Conference on Informatics, Environment, Energy and Application, March 27,28-2014, IEEA2014, Shanghai,China.
74. Presented a paper entitled Synthesis of nanostructure ZnO in film form, its characterization and investigation on its gas sensing application S.K. Dharmadhikari, A.K.Goswami,K.A.Bansode, S.A.Raut, at National Conference, December 27-30,2013,CHEMCON 2013, ICT, Matunga, Mumbai.
75. Presented a paper entitled Saponite based adsorbents and their application in dye removal, S. V. Umale, S. Mayadevi, A. K. Goswami at National Conference, December 27-30,2013, CHEMCON 2013, ICT, Matunga, Mumbai.
76. Presented a paper entitled Enhanced In-situ bionitrification, AkshayJakete, SayliTitre, A.K.Goswami at TEQUIP II 1st National Conference on Recent advances in chemical science and technology (RACST), 21 Sept. 2013, UICT, NMU, Jalgaon.
77. Presented a paper entitled study of heat pipes, TusharPitrubhakta& A. K. Goswami at TEQUIP II 1st National Conference on Recent advances in chemical science and technology (RACST), 21 Sept 2013, UICT, NMU, Jalgaon.
78. Presented a paper entitled super critical fluid extraction Anushree Vaidya, RohiniPatil& A. K. Goswami at TEQUIP II 1st National Conference on Recent advances in chemical science and technology (RACST),21sept 2013 at UICT, NMU, Jalgaon.
79. Presented a paper entitled Removal of heavy metal ions in aqueous solution by using Bagasse SushantSatpute, SagarArangale& A. K. Goswami at TEQUIP II 1st National Conference on Recent advances in chemical science and technology (RACST), 21 Sept 2013, UICT, NMU, Jalgaon.

80. Presented a paper entitled Production of biodiesel from cottonseed oil & study of kinetics of reaction with different optimizing parameters A. K. Goswami at TEQUIP II 1st National Conference on Recent advances in chemical science and technology (RACST), 21 Sept 2013 UICT, NMU, Jalgaon.
81. Presented a paper entitled biodenitrification Akshay Jakete, Sayali Titre & A. K. Goswami at TEQUIP II National Seminar on Recent advances in food & fermentation technology (RAFFT), 25 Sept 2013, UICT, NMU, Jalgaon.
82. Presented a paper entitled Polymeric membrane separation- Review A. K. Goswami, S. K. Dharmadhikari on National Conference in Polymer Technology, March 21-22, 2013 UICT, NMU, Jalgaon.
83. Presented a paper entitled Synthesis of ZnO nanoparticle and its characterization, A. K. Goswami, S.K. Dharmadhikari, on National Conference on Nano Science and Nano Technology, March-23, 2013 NMU, Jalgaon.
84. Presented a paper entitled Nanosized ZnCl₂/MCM-22 material for the liquid phase benzylation of naphthalene, A. K. Goswami, Tejasvi Astikar, received 2nd prize, National Conference on Recent Advances in Chemical Engineering, February 4, 2012, NMU, Jalgaon.
85. Presented a paper entitled Green chemistry approach to condensation of heterocycles by microwave-reactions Review, S. N. Karale, A. K. Goswami, Arti Chitgopekar, National Conference on Environmental Innovations For Resource Sustainability, 21st & 22nd Jan. 2011, NMU, Jalgaon.
86. Presented a paper entitled Manufacturing of biodiesel from Jatropha curcas and its quality assurance testing, Vinay kumar Gupta, H.V. Patil, Yuvraj Patil, A.K. Goswami, at National Conference on Recent Innovations in Oil and Food Technology (RIOFT) on 23, 08, 2010, NMU, Jalgaon.
87. Presented a Research Paper entitled "Experimental Study: Effect of Process Parameters on Palm Oil Methyl ester yield", Ajaygiri K. Goswami, G. A. Usmani, Prachi Kate in the International Conference on Global Trends in Engineering, Technology and Management, 4-6 January 2016 at SSBT's, COET, Bambhori, Jalgaon.
88. Presented a Research Paper entitled "Denitration of high Nitrate bearing Alkaline Waste using two stage chemical and biological process" Sayali Titre, Akshay Jakhete, Avinash Sahu, Tessa Vincent, Mahendra L. Bari, Ajaygiri K. Goswami in the International Conference on Advances in Chemical Engineering (ICACE 2015), 20-22 Dec. 2015 at NITK, Surathkal, Karnataka.

89. Presented a Research Paper entitled "Production of bioplastic from waste banana peels", Jagdishprasad Nandiminti, Swati Dhengle, Ajaygiri K. Goswami in the Sixth Conference on Recent Advances in Polymer Technology (RAPT 2017), 27-28 Feb. 2017 at UICT, NMU, Jalgaon.
90. Presented a Research Paper entitled "Solar light driven photo catalytic degradation of methylene blue dye by using graphene oxide-Cu doped ZnO nanocomposites." Swati Dhengle, Ajaygiri K. Goswami in the National Conference on Recent Advances in Chemical Engineering, 30-31 Jan. 2017 at UICT, NMU, Jalgaon.
91. Presented a Research Paper entitled "Study of eco-friendly utilization of polyester waste by chemical and physical methods." Swati Dhengle, Ajaygiri K. Goswami in the National Conference on Recent Advances in Chemical Sciences, Technology & Environment (RACSTE-2017), 30-31 Jan. 2017 at UICT, NMU, Jalgaon.
92. Presented a Research Paper entitled, "To study the tensile strength of bioplastic prepared from waste banana peel." Amol Borole, Ajaygiri K. Goswami in the 1st National Conference on Advances in Chemical Science (ACS-2017), 04 March 2017 at School of Chemical Science, NMU, Jalgaon.
93. Presented a Research Paper entitled "Chemistry of iodine in several nuclear power plant accidents" Shubham Dudhane, Karun Mishra, Ajaygiri K. Goswami in the National Conference on Recent Advances in Chemical Engineering (RACE-2017), 30-31 Jan. 2017 at UICT, NMU, Jalgaon.
94. Presented a Research Paper entitled "Encapsulation of neem oil in urea" Shubham Dudhane, Karun Mishra, Ajaygiri K. Goswami in the National Conference on Recent Advances in Chemical Sciences, Technology & Environment (RACSTE-2017), 30-31 Jan. 2017 at UICT, NMU, Jalgaon.
95. Presented a Research Paper entitled "Life prediction of tire tread compound by Arrhenius Approach under dynamic heat ageing condition" Ashok Singh, Chandresh D, Ranjith P, K Rajkumar, A. K. Goswami, P Thavamani, in the 21st Rubber Conference on Emerging Trends in Developing Eco-Friendly and Energy Efficient Elastomeric Material and Processing Technology on 20-21 Jan. 2012.
96. Presented a research paper entitled, Denitration of high Nitrate bearing Alkaline Waste using two stage chemical and biological process, Ajaygiri K. Goswami, Sayali Titre, Akshay Jakhete at International conference ICACE 2015 at NIT, Surathkal.
97. Presented a Research Paper entitled "Synthesis of CNT/PVA composites and its applications as spiral wound electrodes in electrochemical process." Ajaygiri K. Goswami in the International Conference on advanced materials, textiles and processes ICAMTP-2017, 14-15 OCT. 2017 at UPTTI, Kanpur.

98. A Research Paper entitled, Chemical Engineering Principles for Intensification of Domestic Operations, A.K.Goswami, S J Kulkarni, accepted for oral presentation at 7th International conference on computer science engineering and technology ICACSET-2020, 18 Jan 2020 at Hyderabad.
99. A Research Paper entitled, Transesterification for biodiesel-a review, A.K.Goswami, S J Kulkarni, accepted for oral presentation at 7th International conference on computer engineering and technologies ICACET-2019, 1 Dec.2019 at Pune.
100. Research Paper presented entitled, Selection, Execution, Evaluation and Monitoring of Student Projects at Undergraduate Level in Chemical Engineering at International conference on Science, Technology and Management ICSTM-20 in Guru Gobind Singh Polytechnic Nashik on 15,16 Feb 2020.
101. Paper presented entitled, 'An Insight into Investigations on Intensification of Adsorbent Beds' at International Conference on Advances in Physical, Chemical & Mathematical Sciences (ICA-PCM-2020) Organized by Department of Physics, Chemistry, Mathematics, Statistics and Computer Science of Rashtrasant Tukadoji Maharaj Nagpur University during 13th to 16th February 2020.
102. Paper presented entitled on Design, optimization, and evaluation of Vildagliptin-loaded gellan gum mucoadhesive beads for sustained drug delivery, in International E-Conference on recent transformations in chemical and textile technology, 24-26 Aug 2020 organized by University Institute of Chemical Technology, Jalgaon.
103. Paper presented entitled on Pharmacognostical and Phytochemical Characterization of Stem of Cassia Spectabilis at ICGTSTHCM-19 at International conference on global trends in technology, science, and management 2019 at SSBT, College of engineering and Technology, Bambhori, Jalgaon.
104. Research paper presented entitled an insight into an investigation on intensification of Adsorbent beds in the international conference on Advances in Physical, Chemical and Mathematical Science ICAPCM-20, Feb 2020 at RTM Nagpur University.
105. Factors affecting photocatalytic degradation of reactive green 19 with CdO-TiO₂ nanocomposite, Gaurav Zope, AK Goswami, S J Kulkarni, P D Meshram, accepted for publication in Advances in Environmental technology, Dec 2021.
106. Assessment of Variables on Cd²⁺ Adsorption by Citrus Peel Carbon using Response Surface Methodology (RSM), P D Meshram, S S Bhagwat, A K Goswami, submitted to journal of the Indian Chemical Society, Jan 2022.
107. Characterization of cellulose nanocrystals produced by acid hydrolysis from banana peels, Gaurav Zope, A K Goswami, S J Kulkarni, submitted to BioNanoScience Journal, Springer publications, Jan 2022.

108. Design and optimization of sustained release trihexyphenidyl hydrochloride nanoparticles, design of experiment approach nitin sirsath, premraj patil, A K Goswami submitted for publication in the journal letters in drug design and discovery, Bentham science , dec 2021.
109. Biodegradable polymer in medical implants and devices, Nitin sirsath, laxmikant zavar, A K Goswami, A Rajput pingale, submitted as book chapter , springer publications.
110. Transesterification for biodiesel a review was presented in the 7th International conference on computing, engg.& tech at Pune on 1st dec 2019.
111. Presented article on preparation of biodiesel from waste oil by transesterification technique at National level paper,poster & robotics competition , 18th feb 2011 at COET Akola.
112. Article presented on polymeric membrane review studies at third conference on recent advances in polymer technology on 15 jan 2011 at UDCT,North Maharashtra University Jalgaon.
113. Research paper promising oils for biodiesel production a review, national conference on recent innovations in oil and food technology on 23 aug 2010 at UDCT,North Maharashtra University Jalgaon.
114. Fifth national conference on recent advances in polymer technology 21-22 march 2013, a review article presented on polymeric membrane separation.
115. UGC -SAP IIIrd National conference on Recent challenges in Pharmaceutical science and technology, on 16 march 2013, presented on use of graphene oxide nanoparticles in drugs preparation , a review study.
116. At Teqip-II sponsored 1st National conference on recent advances in chemical sciences and technology presented an article on studies on heat pipes on 21 sept 2013 at UICT Jalgaon.
117. At National conference on recent advances in chemical sciences and technology presented an article on supercritical fluid extraction on 21 sept 2013 at UICT Jalgaon.
118. Removal of heavy metal ions in aq. Solution by bagasse- review study , presented at Teqip-II sponsored 1st National conference on recent advances in chemical sciences and technology on 21 sept 2013 at UICT Jalgaon.
119. A review on biodiesel preparation from used soybean oil presented in CHEMCON-2013 held at ICT Mumbai on dec 27-30 , 2013.
120. Research article presented on enhanced bio denitrification studies at National conference RACST 2013 organized by Dept of Basic science , UICT NMU Jalgaon.
121. Review article presented on study of aerogels at National conference RACST 2013 organized by Dept of Basic science , UICT NMU Jalgaon on 21 sept 2013.

9. Workshop/FDP/QDP/STP, Attended/Participated/Organized/Lecture delivered:-

1. Attended Residential Workshop on Effective office administration and Financial Management, organized by National Productivity Council, New Delhi at at Leh, Ladakh from 06-10 June 2016.
2. Attended One Week STTP on Recent trends in Chemical & Biochemical Engineering, Jan.27-31, 2016 at VNIT, Nagpur.
3. Attended one day Interactive workshop on Scientific Writing and Publishing organised by Macmillan Science Communication, exclusive partner of Nature Publishing group, on 29 Nov.2013 at JNU, New Delhi (Nov.2013).
4. Attended Residential Workshop on E- Governance: Transforming Govt. sector, organized by National Productivity Council at Port-Blair from 17-21 Nov.2014.
5. Participated and successfully completed in Quality Improvement Program on Innovations in drug design and delivery at UICT, NMU, Jalgaon from 20-27 sept.2013 (sponsored by TEQIP-II, MHRD, New Delhi).
6. Participated and successfully completed in TEQIP sponsored Short Term Training Program on Nanoscience and Nanotechnology at UICT, NMU, Jalgaon from 20-25 June 2013.
7. Participated in National Level Seminar on Role of Bioenergy in Sustainable growth (RBESG-2013) sponsored by AICTE at M.I.T, Alandi, Pune during 30-31 August 2013.
8. Attended at National Conference on Recent challenges in Pharmaceutical Sciences and Technology held on 16 March 2013 at UICT, NMU, Jalgaon sponsored by UGC-SAP
9. Worked as member of Organizing Committee in TEQIP-II sponsored National Seminar on Recent advances in Food and Fermentation Technology held on 25 sept.2013 at UICT, NMU, Jalgaon.
10. Worked as member of Organizing Committee in TEQIP-II sponsored First National Conference on Recent advances in Chemical Sciences and Technology held on 21 sept.2013 at UICT, NMU, Jalgaon.
11. Worked as member of Organizing Committee in TEQIP-II sponsored National Conference on Emerging Trends in Oleochemicals&Ecofriendly Coating Technologies held on 28 sept.2013 at UICT, NMU, Jalgaon.
12. Worked as member of Organizing Committee in 3rd National Conference on Recent advances in Polymer Tech. held on 15 January 2011 at UICT, NMU.

13. Worked as member of Organizing Committee in National Conference on Recent Innovations in Oil and Food Technology held on 23 August 2010 at UICT, NMU, Jalgaon.
14. Attended One Day Workshop on Patent Awareness held on 04 August 2008 at NMU, Jalagaon sponsored by TIFAC, DST (Govt.of India).
15. Lecture Delivered on Opportunities in Science and Technology on 16 sept.2014 at Dr. A. G. D. BendaleMahilaMahavidyalaya, Jalgaon.
16. Attended Two-Week Short Term Training Program on Process Design & Intensification: Fundamentals to Applications,December 26,2016 to January,4,2016 at UICT,NMU,Jalgaon.
17. Worked as Member of organizing committee ofin the Sixth Conference on Recent Advances in Polymer Technology (RAPT 2017), 27-28 Feb.2017 at UICT,NMU,Jalgaon.
18. AttendedOne-Week self-sponsored Short Term Training Program on How to write a research paper? (With hands on to write a review paper) Feb. 22-26,2017 at VNIT, Nagpur.
19. Attended One-WeekShort Term Training Program on Elements of Research & Hands on session on selection of Research area, Reading & Writing of Research paper,March 20-24,2017 at NIT, Raipur.
20. Organized Youth Technologist Startup Conclave-2019(jointly organized by UICT & UPTTI Kanpur Startup Cell) as Convenor & organizing Secretary at UICT,KBCNMU,Jalgaon on 22nd Jan.2019.
21. Organized ENTREPRENEURSHIP SUMMIT 2K18 Youth Technologist Startup Conclave-2019(jointly organized by UICT & UPTTI Kanpur) as r & organizing Secretary at UPTTI,Kanpur on 24th March Jan.2018.
22. Organized Young Innovators Summit-2018(jointly organized by UICT & UPTTI Kanpur) as Convenor at UPTTI Kanpur on 23rd Oct. Jan.2018.
23. Participated in All India level Bootcamp on Bioentrepreneur ship on 23,24 mar.2018 at IIT,Kanpur.
24. Won the 2ndSecond Prize in a hackathon titled biotech/engg.solution for crop burning conducted by IIT Kanpur and Biotech Consortium India Ltd. On 23, 24 March 2018at IIT,Kanpur.
25. Attended One Week Workshop on NBA: norms and preparation, held on 3-7thoct. 2019 at UICT, KBCNMU, Jalgaon.

26. Worked as an Organizing secretary, One Week Workshop on Material characterizations and instrumentation techniques as at UICT, KBCNMU, Jalgaon, from 15-20th July 2019 under aegis of TEQIP-III.
27. Attended One Week short term training program on advanced industrial waste management techniques at UICT, KBCNMU, Jalgaon, from 14-19th May 2018 under aegis of TEQIP-III.
28. Attended Two-Week short-term training program on Process design and Intensification: Fundamentals to Applications at UICT, KBCNMU, Jalgaon, from 26th Dec. 2016 to 4th Jan. 2017 under aegis of TEQIP-III.
29. Lecture delivered on How to make future education in Chemical Engineering and technology, future scope at Zilha Parishad High School, Sakoli Dt-Bhandara on 16/10/2018.
30. Participated in online faculty development program on chemical engineering –Towards sustainability and process intensification conducted by GIT, Lavel, 15 to 17 June 2020.
31. Participated in an online seminar on “Introduction to Industrial Safety”, on 21 August 2021 at Chemical Engineering Department, GIT, Lavel.
32. Participated in an online seminar on “Opportunities and Challenges in Oil and Gas Industries”, organized by the Department of Chemical Engineering Gharda Institute of Technology, Lavel on 28th August. 2021.
33. Participated in an online seminar on “Role of Chemical Engineering In Pharmaceutical industry”, organized by the Department of Chemical Engineering Gharda Institute of Technology, Lavel on 6th Sept. 2021.
34. Participated in an online seminar on “Process Engineering Overview (Basic Requisites of Process Engineering)”, on 18th Sept. 2021, at Chemical Engineering Department, GIT, Lavel.
35. Organized online workshop cum interactive session as a capacity of Coordinator under UICT KCIIL Cell on Technological Innovation to Entrepreneurship, speaker Mr Satish Khadke MD Sharpless Ltd Mumbai on 7th September 2021 for BTech Students.
36. Organized online workshop cum interactive session as a capacity of Coordinator under Startup and IIC Cell on Projecting Candidature -What does Industry look for while hiring, Speaker Mr Sanjay Soor, General Manager (Supply operations) Novozymes SouthAsia Pvt.Ltd.Mumbai, on 29th October 2021.

37. Organized online workshop cum interactive session as a capacity of Coordinator under Startup and IIC Cell on Crude oil with classification and its role in Refinery configuration, Speaker Mr.Jagdish Wankhede, Director, J P India Consultancy services, Nagpur, on 27th November 2021.
38. Lecture delivered on preparation of JEE , CET and equivalent entrance exam to get admission at IIT,NIT,ICT,UICT etc institutions for Chemical engg and tech. studies on 20th dec 2021 at Vidya prasarak shikshan sanstha R.R.B.I.Hidamali spaecially for the students belongs to rural and Naxalite area.
39. Talk delivered on future scope of higher education on Chemical engg and technology field to get good jobs as well as for small new start-ups at R.R.B.I. Hidamali spaecially for the students belongs to rural and Naxalite area on 22 dec 2021.
40. Delivered invited talk at Career guidance workshop on scope of chemical engineering at Sant Jay Ramdas science college Thana tal amgaon dt gondia on 3rd jan 2022 for students from rural and tribal area.
41. Delivered invited talk at Career guidance workshop on why choose chemical engineering and technology at Adarsh junior science college amgaon dt gondia on 4th jan 2022 for the students from rural and tribal area.
42. Delivered lecture on how to prepare for entrance to get admission in the field of chemical engineering and technology at reputed institutions like IITS, NITS, ICT, UICT etc and future scope in different chemical industries as well as for new startups on 5th jan 2022 at Mauli arts and science college, Katurli post sitepar tal amgaon dt-gondia for the students from rural and tribal area.
43. Participated in one day Workshop on Syllabus FramingBasics on 19th jan 2019 at SSBT'S College of Engineering and Technology, Bambhori, Jalgaon.
44. Participated in one day University Level Seminar on Basics and applications of HPLC and LCMS jointly organized by Chemical science and Spinco Biotech pvt ltd.Mumbai on 14th oct 2019 at KBCNMU Jalgaon.
45. Expert talk delivered at VNIT, Nagpur on recent advances of Nanomembranes and applications at short term training program on recent trends in Nano membrane technology during 24-28 feb 2016.
46. Participated in one week STTP at NIT, Raipur on elements of research and hands on session on selection of research area ,reading writing of research paper during 20-24 march 2017.
47. Worked as Refree for evaluation of posters at District level research festival Avishkar-2013 at Z B Patil college Dhule on 5th oct 2013.
48. Member of Organizing committee , 8th state level inter university research convention 16-18 jan Avishkar-2014.

49. Worked as Member Automation committee at University level research festival Avishkar-2013 at NMU, Jalgaon on 18-19 oct 2013.
50. Member organizing committee Third Global Sustainable Biotech Congress 2014 during 1-5 dec 2014, NMU collaboration with Global Biotech Forum Nagpur & CETYS University, Mexico.
51. Participated in interactive workshop Scientific writing and publishing organized by MACMILLAN Science Communication exclusive partner of Nature publishing grp at New Delhi march 2016.
52. Participated in STTP on Nanoscience and Nanotechnology 20-25 june 2013 at UICT Jalgaon.
53. Attended the All India Seminar on Modern trends in Transformer Oil TRAFOL-95 during 20-21 jan 1995 at The Institute of Engineers Nagpur.
54. Participated in TIFAC, DST, Govt of India, New Delhi sponsored one day workshop on patent awareness on 4th aug 2008 at NMU Jalgaon.
55. Organized Youth Technologist Startup Conclave-2019(jointly organized by UICT & UPTTI Kanpur Startup Cell) as Convenor at UICT, KBCNMU, Jalgaon on 22nd Jan.2019.
56. Organized Entrepreneurship Summit 2K18 Youth Technologist Startup Conclave-2019(jointly organized by UICT & UPTTI Kanpur) as an Organizing Secretary at UPTTI, Kanpur on 24th March.2018.
57. Organized Young Innovators Summit-2018(jointly organized by UICT & UPTTI Kanpur) as Convenor at UPTTI Kanpur on 23rd Oct. Jan.2018.
58. Organized one day workshop on Entrepreneur and Innovation as Convenor at UPTTI Kanpur on 25th Sept.2019.
59. Organized one day workshop on My Story-Innovators life and crossworld as Convenor at UPTTI Kanpur on 26th Sept.2019.
60. Organized two-day Hackathon on Smart textile hackathon-2019 as capacity of Program Convenor at UPTTI Kanpur on 27-28th Sept.2019.
61. Organized one week workshop on Material characterizations and instrumentation techniques as Organizing secretary at UICT, KBCNMU, Jalgaon from 15th -20th july 2019 under aegis of TEQIP-III.
62. Participated in TEQIP-II MHRD NEW DELHI sponsored quality improvement program on INNOVATIONS IN DRUG DESIGN AND DELIVERY during 20-27 sept2013 with A grade at Dept of Pharma.Tech, UICT Jalgaon.

10. Total no of M. Tech. (Chemical Engg.) Project (Thesis) Guided: - (24)

11. Total no of MTech. (Pharmaceutical Tech.) Project (Thesis) Guided: – (09)

12. Total no of B. Tech. / B.E. (Chemical Engineering) Project (Thesis) Guided – (229).

13. No. of Ph.D. (Chemical Technology)/MTech. (Chemical) students on going:(1/1).

Ph D Thesis Guided details-

Name of Research Scholar	Title of Thesis	Date of Registration	Remark/ status
Nitin Sirsath	Formulation, Development and Evaluation of Carrier Based Novel Drug Delivery System of Different Drugs	29-06-2018	Final Thesis submitted

14. PROJECT THESIS M.Tech Chemical Engg. GUIDED Details:-

Sr No	Name of Students	Title of Thesis	Year
1	Ganesh Chaudhari	Preparation and evaluation of Furosemide Nano crystal for Solubility enhancement.	2019-20
2	Hitesh Rawate	Measurement of Interfacial rheology of polymeric surfactants.	2018-19
3	Dyaneshwar Tat	“Microreactor based Synthesis of Palladium and Silica Nanoparticles”	2017-18
4	Sandhya Gedam	Study of Carbon Nanotubes-Graphene oxide and silver nanoparticles based Polyurethane composites.	2017-18
5	Zope Gaurav	Studies on synthesis of Cd-TiO ₂ nanocomposites and its application in photo catalysis.	2016-17
6	Dhenge Swati	Master Synthesis and Characterization of starch/SnO ₂ nan composite.	2016-17
7	Kate Prachi	Nanostructured Graphene oxide- Ti O ₂ Nanowires composites & Their potential application for removal of organic pollutants.	2015-16

8	Sapkale Pallavi	Evaluation of hydrodynamic and mass transfer performance of microextractor with integral settler.	2015-16
9	Jakhete Akshay	Catalytic Denitration of high nitrate alkaline waste by chemical reduction.	2014-15
10	Vrushali Chaudhari	Fly Ash supported carbon doped TiO ₂ .	2014-15
11	Tejas Mhatre	Very Low Temperature Membrane Free Desalination By Using Directional Solvent Extraction	2014-15
12	Neha Marghade	An investigation of O-Toluidine isomerisation over mixed metal oxide using down flow fixed bed reactor.	2013-14
13	Shilpa Haste	Effect of variation cultivation conditions on biomass and lipid productivity, FAME signature and biodiesel properties of chlorella sp.	2013-14
14	Sanjivani Umale	Saponite based adsorbents and their application in dye removal.	2012-13
15	Zakir Husain	Modeling and simulation of Reactive batch distillation.	2012-13
16	Rashmi Dahake	Design and development of Anaerobic Membrane Bioreactor for Low strength Wastewater treatment.	2012-13
17	Ashok H Singh	Life prediction of tire tread compound by Arrhenius approach Under dynamic heat ageing condition.	2011-12
18	Rahul S Zambare	Development of new process cycle for autoclave operation.	2011-12
19	Vishal H. Bhagat	Studies on synthesis and characterization of Titanium dioxide nanoparticles by ultra-sonication.	2011-12
20	Aarti Chitgopekar	Green chemistry approach to condensation of heterocycles By microwave irradiation	2010-11
21	Tejasvi A. Astikar	Synthesis, characterization, and application of supported zeolite.	2010-11
22	Vijay Mawal	Study of Fluid Solid Heat Transfer in cyclone Heat Exchanger	2010-11

23	Rajnikant Jadhao	Catalytic hydrogenation of furfural to various compounds	2009-10
24	Vinay Gupta	Study of Biodiesel prepared from karanj oil.	2009-10
25	Rakesh Ahire	Study of vildagliptin loaded graphene oxide nanoparticle.	2021-22

15. Number of B. Tech. Chemical Engg. Students Project on going: 09.

16. Project and Grants received –

To study the preparation, petroleum properties, emissions and engine performance characteristics of biodiesel using edible oils under technical education quality improvement program, MHRD, New Delhi.

As a teamwork of all the faculty and under leadership of Director and respective Heads of the Department , our Institute UICT has received research project grants (around 20.0 Crore) from various agencies like DST, CSIR, DRDO, BARC, INSA, BRNS, UGC, AICTE, ISTRO etc. and been covered under NON-SAP & SAP Scheme and Innovative Programme of UGC with the interdisciplinary research theme of Nano Science and Technology, FIST Scheme of DST and TEQIP-II by MHRD, Govt. of India and World Bank. Its proud for our Institute UICT as well our University KBC North Maharashtra University, Jalgaon.

**17. Contribution to university/School/Department: –
University Institute of Chemical Technology (UICT):-
Current Duty and Responsibility along with Teaching-**

1. Start-up Cell Coordinator of UICT, KBCNMU, Jalgaon.
2. Co-ordinator Institute Innovation Cell (IIC), UICT, KBCNMU, Jalgaon.
3. Student Recreation Coordinator of UICT, KBCNMU, Jalgaon.
4. Teacher Parent Cell Coordinator of UICT, KBCNMU, Jalgaon.
5. Academic Committee UICT Co-Coordinator.
6. Ph.D Guide in the subject of Chemical technology and engineering.
7. Member Board of Governance, TEQIP-III (MHRD), UICT, KBCNMU, Jalgaon.
8. Head of the Department Department OF Pharmaceutical Science and Technology.
9. Co-ordinator UICT Employability Assessment under TEQIP-III, MHRD New Delhi.
10. Member NBA Committee UG for preparation of Criteria 2 and 3 for SAR submission.
11. Co-ordinator UICT Students Diagnostic Assessment under TEQIP-III.
12. Member Board of Studies (BOS) Chemical Engineering, KBC, NMU, Jalgaon.

13. Member, Institutional Chemical Research Ethics Committee, KBC North Maharashtra University, Jalgaon.
14. Member, Institutional Research Advisory Committee (RAC) UICT, KBC North Maharashtra University, Jalgaon.
15. Co-ordinator KCIL Innovation & Entrepreneurship Development Cell (K-IEDC), UICT, KBC North Maharashtra University, Jalgaon.

18. Worked (Previous Responsibilities) as-

1. M. Tech Admission Coordinator for Academic Year 2015-16 for All Seven Branches- Chemical Engineering, Polymer, Oil, Pharma, Paint, Food & Nano Technology
2. B. Tech. Timetable Coordinator - for Academic Year 2015-16.
3. Coordinator -Parent Teacher Association - for Academic Year 2015-16.
4. Conducted Parent Teacher Meeting on 27/07/2015 and 14/09/2015.
5. Three M. Tech Chemical Engineering Students and Fourteen B. Tech. Chemical Engineering Students did an Experimental Project and Seminar in Current Year 2015-16.
6. B. Tech. (Chemical Engineering) Examination Coordinator-July2012-June2014 UICT, NMU, Jalgaon.
7. Parent Teacher Association Coordinator- July 2011- 2015, UICT, NMU, Jalgaon.
8. B. Tech. Timetable Co-ordinator-for Academic Year 2012-15, UICT, NMU, Jalgaon.
9. Computer Head under TEQIP- II July 2013- June 2015 UICT, NMU, Jalgaon.
10. M. Tech. (Chem. Engineering) Admission Committee (Preparation of Entrance Question paper and Interview Conduction) - July 2010- June 2015, UICT, NMU, Jalgaon.
11. Member UDCT Magazine Committee - July 2008- June 2012, UICT, NMU, Jalgaon.
12. B. Tech. Timetable committee Member-final Year 2010-12, UICT, NMU, Jalgaon.
13. Member, Academic committee (under TEQIP-II), UICT, NMU, Jalgaon for the Year 2013-15.
14. Member, IOC committee (under TEQIP-II), UICT, NMU, Jalgaon for the Year 2013-15.
15. Computer Head under TEQIP- II for the Year 2013-15, UICT, NMU, Jalgaon.
16. Worked as HOD, Chemical Engineering. Department at KESNN Patil Engineering College, Pen from July 2004 to Feb.2005.
17. Worked as Secretary, Industry Institute Interaction Cell at KESNN Patil Engineering College, Pen from July 2000 to 2003.
18. Worked as a Laboratory Incharge and developed the Process control Lab. at KESNN Patil Engineering College, Pen.

19. Worked for NBA Accrediation work at KESNN Patil Engineering College, Pen during the year 2002 to 2004.
20. Worked as Dept. Incharge , Chemical Engineering Department at DMCE, Airoli during the year 2006 -07.
21. Worked for preparation of AICTE report at DMCE, Airoli during the year 2006 and 2007.
22. Worked as a Laboratory Incharge and developed the Process control Lab. at DattaMeghe College of Engineering, Airoli, Navi-Mumbai during the year 2005 and 2007.
23. Worked as a Paper setter, Chairman for the various subjects of Chemical Engineering such as Process control, solid fluid mechanical operation, Mass Transfer, Heat Transfer, Plant Utilities, Chemical Process, Plant Safety etc. in Mumbai University from July 1997 to June 2008.
24. Responsibility done as N.B.A. Coordinator for M. Tech of branches- Chemical Engineering, Polymer Technology, Oil Technology, Pharmaceutical Technology & Nano Technology.
25. Member, Academic committee (under TEQIP-II), UICT, NMU, Jalgaon for Academic Year 2015-16.
26. Member, IOC committee (under TEQIP-II), UICT, NMU, Jalgaon for Academic Year 2015-16.
27. Responsibility of correspondence and installation of Internet Brodband (service provided by BSNL, Jalgaon) under TEQIP-III grant during 15-16.
28. Computer Head under TEQIP- II for Academic Year 2015-16.
29. Member, Academic committee (under TEQIP-II), UICT, NMU, Jalgaon for Academic Year 2014-16.
30. Member, Academic committee (under TEQIP-III), UICT, NMU, Jalgaon for Academic Year 2016-18.

Dr. A.K Goswami

Head, Dept. of Pharmaceutical Technology,

Associate Professor , Chemical Engineering Department

University Institute of Chemical Technology (UICT)

KBC, North Maharashtra University, Jalgaon.M.S.425001