

RESUME



Dr. Mrs. Archana Rajeev Chaudhari

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OBJECTIVE

To work in a highly competitive and challenging atmosphere to achieve organizational and individual goals with a team.

EDUCATION

Ph.D. (2004) – Topic: “Organic Chemistry of Industrial Waste Lignin with a View of its Utilization.”

Visvesvaraya National Institute of Technology, Nagpur

M.Sc. (1992) – Chemistry (Specialization-Inorganic Chemistry)

Nagpur University, with first class (72.7%)

B.Ed. (1996) – Chemistry & Biology

Nagpur University, with first class (78.3%)

B.Sc. (1990) – Chemistry, Environmental Sc. & Zoology.

Nagpur University, with first class (75.85%)

HSSC (1987) - Maharashtra State Board (71%)

SSC (1985) - Maharashtra State Board (74.85%)

WORK EXPERIENCE (Teaching- 27 years)

- 1. Presently working as a Principal at Nutan Adarsh Arts, Commerce and Smt.M.H. Wegad Sceience College, Umrer, Dist. Nagpur**
2. Worked as a Dean Academics, HoD and Associate Professor in Chemistry in Priyadarshini Bhagwati College of Engg. Since July 2014 to February 2024
3. Worked as an Assistant Professor, HoD and Dean Academics in Priyadarshini Bhagwati College of Engg. From Sept.2007 to July 2014
4. Priyadarshini College of Engineering, Nagpur
October 2004 to September 2007 – Senior Lecturer
August 1999 to October 2004 - Regular Lecturer
November1996 to August 1999- Adhoc Lecturer

Awards and Honours:

1. Received '**Best Teacher of the year 2021**' by Rashtrasant Tukadoji Maharaj Nagpur University, for the precious contribution in the field of Higher Education on 5th Sept. 2021
2. Received '**Bhaskar Women Award 2019 in Education category**' on 8th May 2019 by Dainik Bhaskar Group at Nagpur.
3. Received **Best paper award in International Conference** on Science, Engineering and Technology, 30th May 2019 to 1st June 2019, organized by STAMI at Tashkent, Uzbekistan.
4. Received **Best paper award in International Conference** on Sustainable and Renewable Energy: Challenges and Opportunities, 15th Dec 2020 to 16th Dec 2020, organized by Priyadarshini Institute of Engg. & Technology, Nagpur
5. Received **Best paper award in waste management track at International Conference** on Research frontiers in Sciences, 5th Jan 2021 to 6th Jan 2021, organized by G.H.Raisoni College of Engg. , Nagpur

Research &Development:

- Six candidates have been awarded Ph.D. under my supervision by RTMNU, Nagpur and two candidates are registered for Ph.D.
- **Granted a patent** on "Process for preparation of lignin based high surface area activated carbon" dated 26/06/2023.(Patent No. 435479 Application No. 201921035517)
- **Granted copy right** on the articles
 - 1) "Role of Information and Communication Technology (ICT) in Education System: Opportunities and Challenges" **dated 09/07/2020 (Reg.No L-92661/2020)**
 - 2) "Comparative study of activated carbon prepared from agricultural waste materials using chemical additives"(**dated 18/11/2021 Reg.No.L-109103/2021**)
- Actively involved in lignin related research work since 18 years.
- Registered as a recognised guide for Ph.D. by R.T.M., Nagpur University.
University letter No. (Ph.D. (Cell)/RRC/Guide/3604 B/643) dated 12/09/2008
- Registered as a recognised guide for Ph.D. by North Maharashtra University, Jalgaon..
University letter No. NMU/11/PGR/Chem/4067/2011 dated 29/11/2011.
- Registered as a recognised guide for Ph.D. by G.H.Raisoni University, Amaravati
University letter No. (GHRUA/R&D Cell/Ph.D./Co-sup/CHEM 001) dated 08/07/2020
- Appointed as a **member of Research Advisory committee** at Seth Kesarimal Porwal College, Kamptee by Rashtrasant Tukadoji Maharaj Nagpur University.
- Worked as a chairman viva-voce committee for award of Ph.D. at North Maharashtra University, Jalgaon.
- Chaired the session at International conference on Science, Engineering and Technology, at Tashkent, Uzbekistan on 30th May 2019
- Worked for Research Center for Development of Bamboo Technology at Priyadarshini College of Engineering, Nagpur.
- Done consultancy work for water analysis at Priyadarshini College of Engg, Nagpur.
- Worked in a DST sponsored project in collaboration with NGO (VEDHA) entitled "Establishing demonstrative entrepreneurship in Mechanized processing of Bamboo Furniture and product application for self-sustainable community development and empowerment".

Research Publications: Total No – 82

International Journals (41)

1. **A. R.Chaudhari**, J.D.Ekhe & L.P.Nagpurkar , " Formation of Industrially Important Chemicals from Thermal & Microwave Assisted Oxidative Degradation of Industrial Waste Lignin" , Asian Journal of chemistry, Vol. 14 No. 3 , 2002,pp.1387-1392.(**Scopus**)

2. **A.R.Chaudhari**, J.D.Ekhe & L.P.Nagpurkar, "Uptake of heavy metal ions using carbonaceous material obtained from industrial waste lignin using microwave irradiations". Asian Journal of chemistry, Vol. 15 No. 2 , 2003,pp.917-924(**Scopus**)
3. **A.R.Chaudhari**, J.D.Ekhe & Shrikant Deo, " Non-isothermal Crystallization Behaviour of Lignin Filled Polyethylene Terephthalate(PET)" International Journal of Polymer Analysis and Characterization(Taylor and Francis),Vol.11No.3/may-june 2006,pp.197-207(**Scopus**)
4. A.V.Maldure, **A.R.Chaudhari** & J.D.Ekhe "Thermal and structural studies of polypropylene blended with esterified industrial waste lignin" Journal of thermal analysis and Calorimetry(Springer) Vol no.103 No. 2,February 2011,pp 625-632,.(**Scopus**)
5. N.J.Gawande, **A.R.Chaudhari** and R.U.Khope "Influence of surface characteristics of adsorbate on competitive adsorption equilibrium" Advances in Applied Science and Research(Pelagia Research Library)vol. No.3 (3), 2012,pp 1836-1841.
6. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe "Utilization of industrial waste lignin in polymer systems." International journal of Knowledge Engineering, Vol 3 Issue 1, 2012, pp165-167.
7. S.M.Mankar, Soni & **A.R.Chaudhari**"Lignin in Phenol-formaldehyde adhesives." International journal of Knowledge Engineering, Vol 3 Issue 1, 2012, pp116-118.
8. N.J.Gawande, **A.R.Chaudhari** and R.U.Khope "Evaluation of coal based granular activated carbon for removal of Manganese(II) from waste water" Asian journal of chemistry Vol 24, No 12(2012), pp 5753-5755.(**Scopus**)
9. D.M.Kate, N.K.Choudhari & **A.R.Chaudhari** "A Review on non-destructive testing methods to study properties of coal" International Journal of Electronics communication and computer engineering Vol 4, Issue 2, REACT-2013,pp 62-65
10. D.M.Kate, N.K.Choudhari & **A.R.Chaudhari** "Evaluation of Properties of Coal using various NDT methods" International Journal of pure and applied research in engineering & technology, Vol 1(8);pp61-71 IJPRET,2013
11. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe "Biosorptive removal of lead(II) by the carbonaceous material obtained from Industrial waste lignin"International Journal of Scientific Research,Vol 2,issue7,july 2013,pp.51-53.
12. S.S.Mankar, **A.R.Chaudhari** & A. B. Kalmbe "Thermal Stability & Miscibility of Cellulose Acetate & Industrial Waste Lignin Blends "International Journal of Research in Bio Sciences, Agriculture & Technology, Vol 1,issue2,Jan2014,pp.790-799.
13. M.A. Bedmohta, **A.R.Chaudhari**, S.P. Singh, M. D. Choudhari , "Preparation of Activated carbon from industrial waste lignin by Chemical Activation" International Journal of Research in Bio Sciences, Agriculture & Technology, Vol 1,issue2,Jan2014,pp.74-82
14. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe "Removal of Pb (II) & Zn (II) metal ions by the carbonaceous material obtained from Industrial waste lignin", International Journal of Engineering Research & Application ,ICIAC April 2014, pp. 1-5
15. S. B. Dhoble, N. K. Choudhari & **A.R.Chaudhari** "Radio Frequency pH Sensing Model to analyze the quality of Food Material ", International Journal of Advanced Engg. & Global Technology Vol 2,issue 5,May 2014,pp.680-684.
16. N.J.Gawande, **A.R.Chaudhari** and R.U.Khope "Comparative Studies on the capability and behaviour of adsorption of Mn^{2+} on Granular Activated carbon." International Journal of Research in Pharmacy and Chemistry Vol 4, No 3(2014), pp 540-545.
17. N.J.Gawande, **A.R.Chaudhari** and R.U.Khope,"Studies on Diffusion approach of Mn^{2+} onto Granular Activated carbon International Journal of Application or Innovation in Engineering & Management (IJAEM), Vol 3, issue 9,Sept 2014,pp.145-151
18. Dhoble Sarita B., Choudhari N. K and **Chaudhari A.R.** "Sensor Based Evaluation System for Evaluation of Water Quality", Research journal of Engineering sciences, Vol 3 issue 11,Nov 2014,pp.6-10.

19. Dhoble Sarita B., Choudhari N. K and **Chaudhari A.R.**, “ Electronic Sensor Based System for analysis of Infection Behavior in Milk” 978-1-4799-6272-3/15/\$31.00(c)2015 IEEE, International Conference on Pervasive Computing (ICPC) 2015 (**Scopus**)
20. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe “Sythesis, Characterization and Adsorption properties of carbonaceous residue (coke) obtained from Industrial waste lignin for removal of Cu(II)”, International Journal of Advanced Research in Chemical Science, Vol 12, issue 6, June2015, pp.10-20
21. S.S.Mankar, , **A.R.Chaudhari**,A.B.Kalambe, N.A.M.Husain “Adsorption of Benzoic acid by Activated Carbon Obtained from industrial waste lignin”, International journal of advances in science and Technology” Spl issue 1, June 2015, pp 57-60
22. U.V.Gaikwad, **A.R.Chaudhari**, G.S.Shinde “Application of nanomaterials as sensors”, International journal of advances in science and Technology” Spl issue 1, June 2015, pp 215-221
23. M.A.Bedmohota, **A.R.Chaudhari**, **S.P.Singh** & M.D.Choudhary “Adsorption Capacity of Activated Carbon Prepared by Chemical Activation of Lignin for the Removal of Methylene Blue Dye”, International Journal of Advanced Research in ChemicalScience, Vol 2, issue 8, August 2015, pp.1-13
24. S.S.Mankar, **A.R.Chaudhari** & A. B. Kalmbe “Miscibility and Thermal Studies of Cellulose Acetate and Modified Industrial Waste Lignin Blends” International Journal of Innovative and Applied Research Vol 4, issue 1, Feb 2016, pp.45-55
25. D.M.Kate, N.K.Choudhari & **A.R.Chaudhari** “Measurment of Velocity and attenuation of coal by using Ultrasonic NDT” International Journal of Engineering Development and Research, Vol 4(1), March 2016, pp 449-452
26. D.M.Kate, N.K.Choudhari & **A.R.Chaudhari** “Identification of Moisture content in coal sample by using Ultrasonic NDT” International Journal of Research in Engineering and Applied Science, Vol 6(4), April 2016, pp 38-41
27. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe “Nitrobenzene Oxidation for Isolation of Value Added Products from Industrial Waste Lignin”, Journal of Chemical,Biological and Physical Sciences,, Vol 6, issue 3, May 2016, pp.501-513
28. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe “Adsorptive removal of Malachite Green using the coke obtained from pyrolysis of Industrial Waste Lignin”, Journal of Chemical, Biological and Physical Sciences,, Vol 6, issue 3, May 2016, pp.958-969.
29. U.V.Gaikwad, **A.R.Chaudhari** “Lignin as an advantageous biopolymer in todays era” International Journal of Research in Science & Engineering, Special Issue: ICSTSD-2016, pp. 326-333
30. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, “Phenol adsorption using activated carbon Prepared from degradation of industrial waste lignin” International journal of advanced Research, vol 5, issue4, May 2017, pp 2034-2043
31. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, “Adsorption of basic dyes by using Activated carbon prepared from industrial waste lignin” International journal of Advanced Engineering, Management and Science (IJAEMS), special issue-1,(ISSN: 2454-1311) May2017, pp103-109(31)
32. D.M.Kate, N.K.Choudhari & **A.R.Chaudhari**, “Ultrasonic Method for Extraction of %C, %H, %N, %S of Coal using Signal Processing Application” 978-1-5386-1887-5/17/\$31.00 ©2017 IEEE pp 3411 -3414 (International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS-2017) (**Scopus**)
33. S.S.Mankar, **A.R.Chaudhari** & A. B. Kalmbe “Pyrocatalytic degradation of Industrial waste lignin using H3PO4” International Journal of Research in Bio Sciences, Agriculture & Technology, Vol 5, issue17 ,July 2017,pp.397-402
34. S.S.Mankar, **A.R.Chaudhari** & A. B. Kalmbe “Synthesis of Detergent using Industrial Waste Lignin ” Journal of Chemistry and Chemical Sciences, Vol.8(5), 856-864, May 2018 , pp 856-864

35. Uma V. Gaikwad, A.R. Golhar, N.K. Choudhari, **A.R.Chaudhari**, “Structural characterization techniques of materials” AIP Conference Proceedings 2104, 020027 (2019); <https://doi.org/10.1063/1.5100395>, pp.020027-1 - 8 (**Scopus**)
36. R.A.Nandanwar, **A.R.Chaudhari** , J.D.Ekhe, A.C.Haldar “Thermocatalytic degradation of industrial waste lignin to prepare activated carbon” AIP Conference Proceedings 2104, 020027 (2019); <https://doi.org/10.1063/1.5100395>, pp.020025-1- 5 (**Scopus**)
37. Arti M.Sorte, Ajay N.burile, **Archana R. Chaudhari** & Animesh Chandra Haldar “Utilization of Agrowaste in the Developement of Fire Clay Bricks:A Review”International Journal of Environment and Waste Management”vol.26, no 4, 2020 pp.531-550 (Interscience Publisher)(**Scopus**)
38. Ekta R, Raut, Monita A. Bedmohata & **Archana R.Chaudhari**, “Review on Toxic Metal ions Removal by Using Activated carbon Prepared from natural Biomaterials” Journal of Physics: Conference Series 1913 (2021) 012091, IOP Publishing, pp.1-10 (**Scopus**)
39. Ekta R, Raut, Monita A. Bedmohata & **Archana R.Chaudhari**, “ A Review on Activated Carbon Preparation From Natural and Ecofriendly Rawmaterials” AIP Conference Proceedings 2417, 020011 (2021); <https://doi.org/10.1063/5.0072755> Published Online: 19 October 2021, pp.020011-1- 16(**Scopus**)
40. Ekta R, Raut, Monita A. Bedmohata & **Archana R.Chaudhari**, “ Comparative study of preparation and characterization of activated carbon obtained from sugarcane bagasse and rice husk by using H_3PO_4 and $ZnCl_2$ ” Materials Today : Proceedings 66, Part 4,(2022)1875-1884, <https://doi.org/10.1016/j.matpr.2022.05.413> Elsevier (**Scopus**)
41. Amar T.Banmare, N.K.Choudhari, **A.R.Chaudhari** Hazardous chemicals based skin diseases classification using deep learning: a review, International Journal of Creative Research Thoughts, Volume 11, Issue 3 March 2023 , ISSN: 2320-2882, pp d10-15
42. Ekta R, Raut, Monita A. Bedmohata & **Archana R.Chaudhari**,” Study of synthesis and characterization of raw bagasse, its char and activated carbon prepared using chemical additive”Water Science & Technology 2233 doi: 10.2166/wst..134, Vol 87 No 9, pp 2233-2249

National Journals (5)

1. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe “Charecterization studies of lignin recovered from paper Industry waste”Bionano FrontierVol no.5, January 2012, pp 333-336.
2. S.M.Mankar & **A.R.Chaudhari** “ Industrial waste lignin : a Promising Biomaterial” Bionano FrontierVol no.5, January 2012,pp 337-341.
3. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe “Lignin based char: A low cost biosorbent for removal of zinc ions” Bionano Frontier, Special issue II world congress for man & nature-2012 pp 97-99.
4. S.M.Mankar,**A.R.Chaudhari** & I.Soni “ Structural & thermal characterisation of Lignin isolated from industrial waste black liquor” Bionano Frontier, Special issue II world congress for man & nature-2012 pp 74-76.
5. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe “Pyrocatalytic degradation of Industrial waste lignin to produce valuable chemicals”” SCIENCE JOURNAL – 2018, Rashtrasant Tukadoji Maharaj Nagpur University, Vol. XIV, pp 46 - 49

International Conferences (16)

1. **A.R.Chaudhari** & J.D.Ekhe, “Determination of Phenolic Compounds Obtained from Oxidative Degradation of Industrial Waste Lignin”. International Conference on Polyphenols, 11th & 12th Feb 2000, NIT Tiruchirapalli, India. pp 24.
2. **A.R.Chaudhari**, K.Gour, M.P..Joshi, A.Shende, A.Kalamkar & J.P.Modak “Possible Adhesives for Joinery of Bamboo Machine Parts”.VII World Bamboo Congress, 27th feb- 4th Mar 2004, New Delhi,India.pp 53.
3. **A.R.Chaudhari**,K.Gour,M.P..Joshi, & J.P.Modak “Confirmation of Feasibility of Bamboo Charcoal as a Low Cost Adsorbent.”.VII World Bamboo Congress, 27th Feb- 4th Mar 2004, New Delhi,India pp 26.

4. A.V.Maldure, **A.R.Chaudhari** & J.D.Ekhe, "Studies on Polypropylene Blended with Modified Industrial Waste Lignin" POLYMCON'09 an International Conference on Polymers, 9th – 11th January 2009, NIT Calicut, Kerala, India, pp 208-220.
5. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, "Potential of Lignin Pyrolysis to Produce Value added Products" International Conferences on Chemistry for Mankind, 7th – 9th Feb.2011, Dept.of Chemistry,RTMNU,Nagpur & Institute of Science, Nagpur.
6. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, "Thermocatalytic Degradation of Lignin: a potential method for valuable chemicals" International Conferences on Futuristic Material and Emerging trends in Forensic and Life, 5th – 7th Feb.2015, Dept.of Chemistry,RTMNU,Nagpur & Indian Association of solid state chemists and Allied Scientist.
7. S. B. Dhoble, N. K. Choudhari & **A.R.Chaudhari** "Comparative Analysis of Infection Behavior using Infrared sensing Model in Milk.", International Conference on Pervasive Computing", 8th – 10th Jan 2015, Advanced Communication Technology and Application for Society, Pune, India
8. U.V.Gaikwad, **A.R.Chaudhari**, G.S.Shinde "Applicatins of Nanomaterials as a Sensors", An International conference on Science, Technology and Mathematics Education" 22-23 April 2015, Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur.
9. S.S.Mankar, , **A.R.Chaudhari**, A.B.Kalambe, N.A.M.Husain "Adsorption of Benzoic acid by Activated Carbon Obtained from industrial waste lignin", An International conference on Science, Technology and Mathematics Education" 22-23 April 2015, Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur.
10. D.M.Kate, N.K.Choudhari & **A.R.Chaudhari** "Extraction of carbon Content in coal sample by using Ultrasonic NDT Based Electronic System." 12 April 2016.5th International Conference on Quality Up-gradation in Engineering Science & Technology, BDCOE, Sewagram
11. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe "Thermochemical Degradation of Industrial Waste Lignin to Produce Valuable Chemicals and Activated Carbon", International Conferences on Nature Inspired Initiatives in Chemical Trends, 19th -20th September 2016, Indian Institute of Chemical Technology, Hyderabad.pp. 133.
12. **A.R.Chaudhari**, M.A.Bedmohota, S.P.Singh " Adsorption and Kinetic Studies of Malachite Green on Activated Carbon Prepared from Industrial Waste Lignin Using ZnCl₂ " International conference on Science, Engineering and Technology, 30 May to 1st June 2019, Tashkent, Uzbekistan pp.1
13. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe "Pyrolysis of Industrial Waste Lignin in Presence of ZnCl₂ and K₂CO₃ " International conference on Science, Engineering and Technology, 30 May to 1st June 2019, Tashkent, Uzbekistan pp.1"
14. Ekta Raut, M.A.Bedmohota & **A.R.Chaudhari** " A Review on Activated Carbon Preparation from Natural and Eco friendly Raw Materials" 1st World congress on optimization and Automation techniques in Engineering and Management, 19th October to 21st October 2020, G.H.Raisoni University, Amaravati.
15. **A.R.Chaudhari**, M.A.Bedmohota, S.P.Singh " Adsorption Studies of Activated Carbon Prepared from Industrial Waste Lignin for Removal Malachite Green" International Conference on Sustainable and Renewable Energy: Challenges and Opportunities, 15th Dec 2020 to 16th Dec 2020, organized by Priyadarshini Institute of Engg. & Technology, Nagpur.
16. Shishir Bagal, Nitin K,Choudhari & **A.R.Chaudhari**, " Development of Internet of Things (IoT) Based Monitoring of Hazardous Exhaust Compounds in Air - A Review" DOI: <https://doi.org/10.1051/itmconf/20225001002>, ITM Web of Conferences **50**, 01002 (2022) pp. 1 -10

National Conferences (19)

1. **A.R.Chaudhari & J.D.Ekhe**, "Treatments and Chemicals Investigation of Industrial Waste Lignin", Eighty Eighth session of the Indian Science Congress Association New Delhi, 3rd - 7th Jan. 2001, Forum on Environmental sciences pp 311.
2. **A.R.Chaudhari & J.D.Ekhe**, "Treatments and Analysis to Explore Greater Utilization of Industrial Waste Lignin". Treatwaste- 2001, National Seminar on Recent Trends in Industrial waste treatment, 13th-14th Jan. 2001 at LIT, Nagpur pp 228.
3. **A.R.Chaudhari**, J.D.Ekhe & L.P.Nagpurkar, "Determination of Phenolic Compounds (HPLC) Obtained from Microwave Assisted Oxidative Degradation of Industrial Waste-Lignin". National seminar on Instrumental Techniques in Chemical analysis, 15-16th Sep. 2001, Department of Applied Chemistry, Indian School of Mines, Dhanbad.pp 29.
4. **A.R.Chaudhari** , J.D.Ekhe & L.P.Nagpurkar,"Microwave Irradiations: Application in Organic Chemistry" "Chemo-vision" State Level Seminar , 30th December 2001, at Ambedkar College Nagpur.pp 23-27
5. **A.R.Chaudhari** , J.D.Ekhe & L.P.Nagpurkar, "Uptake of Heavy Metal Ions Using Carbonaceous Material Obtained from Paper Industry Solid-Waste". PPCI 2002, National Conference, 2nd & 3rd March 2002, at VRCE, Nagpur.pp 215-218
6. **A.R. Chaudhari**, J.D. Ekhe "Lignin as a Co-reactant in phenol formaldehyde resin", UGC Sponsored National conference on emerging trends in chemical sciences in the new millennium, 5-7 February 2004, Shri Shivaji Science College, Amravati.pp114.
7. **A.R. Chaudhari**, J.D. Ekhe "Utilization of Solid Waste Lignin from Paper Industry" National Workshop on Pragmatic Management of Industrial Pollution, 20-21 November 2004, National Institute of Technology, Rourkela. pp 1.
8. **A.R.Chaudhari**, J.D.Ekhe , Shrikant Deo & D.R.Peshwe," Differential scanning calorimetric studies of modified Lignin filled Polyethylene Terephthalate(PET)" 5th National Symposium & Conference on Solid State Chemistry & Allied Areas, ISCAS-2007, 28-30 November 2007, Dept. of Chemistry, RTM Nagpur University, Nagpur. pp 100.
9. A.V.Maldure, **A.R.Chaudhari** & J.D.Ekhe, " Preparation and Characterization of Modified Lignin", National conference on Green Chemistry and its Perspectives, 11-12 February, 2008, Department of chemistry, Sant Gadge Baba Amravati University, Amravati.ppE-23
10. N.J.Gawande, R.U.Khope & **A.R. Chaudhari**, "Removal of manganese from aqueous phase using coal based Adsorbents, "National Conference on Materials: Atom to molecule, 16th December 2011, Department of Chemistry, Shivaji Science College Nagpur. pp-29.
11. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, "Wholesome Utilization of Industrial waste lignin: a paper industry waste" Fourth Indian Youth Science Congress, 9th-11th Nov.2012,Indian science Congress.pp 93.
12. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, "Uptake of Pb-ions by carbonaceous material prepared from Industrial waste lignin", pp. 24, National conference on Advanced Research trends in Sciences, 18th-19th January, 2013, Department of Chemistry, G. H. Raisoni College of Engineering, Nagpur.
13. S. S. Mankar, **A. R. Chaudhari**, "Multiple Treatments for Utilization of Industrial Waste Lignin" National Conference on Advanced Functional Materials, 21st- 23rd Jan. 2013, Dept. of Chemistry, VNIT, Nagpur.
14. R.A.Nandanwar, **A.R.Chaudhari**, N.K.Choudhari, "Industrial waste lignin: A potential Material for Value added products"pp 38-41, National Symposium on Recent trends in the field of green technology, 22nd- 23rd Nov. 2013, Dept. of Applied Science & Humanities, Shri Dadaji institute of Technology & Science, Khandwa.
15. M.A. Bedmohta, , **A.R.Chaudhari**, S.P. Singh, M. D. Choudhari , "Preparation of activate carbon from industrial waste lignin" pp 17,National Conference on Frontier Areas in Chemistry" 23rd – 25th Oct. 2013, Department of Chemistry, Shivaji Science College, Amravati.
16. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, "Adsorption of various toxic metals ions on carbonaceous material obtained from industrial waste lignin"pp 18, National

- Conference on Frontier Areas in Chemistry” 23rd – 25th Oct. 2013, Department of Chemistry, Shivaji Science College, Amrawati.
17. U.V.Gaikwad, **A.R.Chaudhari**, S.V.Gaikwad “Applicatins of smart polymers in Emerging Areas”, National Conference MACROTECHNEVISTA on Recent Advances in Polymer Science & Technology”23-24 Jan 2015, Laxminarayan Institute of Technology, Nagpur,pp.48.
 18. M.A. Bedmohta, , **A.R.Chaudhari**, S.P. Singh “ Phenol adsorption onto the surface of activated carbon prepared using industrial waste lignin” pp 44, National Seminar on Modern Methods in Organic Synthesis (MMOS-2017)” 20th -21st March2017, PGTD,RTMNU,Nagpur.
 19. R.A.Nandanwar, **A.R.Chaudhari** & J.D.Ekhe, “Adsorption of Congo red dye on activated carbon prepared from industrial waste lignin”pp 19, National Seminar on Modern Methods in Organic Synthesis (MMOS-2017)” 20th -21st March2017, PGTD,RTMNU,Nagpur.

Books and Books Chapters

1. A book on “**Energy and Environment**” by **S.Chand Publication**,first ed.2022, ISBN No.978-93-550-1209-8, prescribed by RTMNU for B.Tech first sem students .
2. A book on “**Applied Chemistry**” by **S.Chand Publication**,first ed.2022, ISBN No.978-93-550-1225-8, prescribed by RTMNU for B.Tech second sem students .
3. Book chapter on ‘**Application of smart polymers in emerging areas**’ in the book ‘Novel Application in Polymers and its Waste Management’, **AAP –Apple Academic Press**.New Jerisy, USA, Oct. 2016, www.appleacademicpress.com
4. Book chapter on ‘**Adsorption Studies of Activated Carbon Prepared from Industrial Waste Lignin for the Removal of Malachite Green**’ in the book ‘Sustainable Engineering, Energy and the Environment; Challanges and Opportunities, **CRC Press, Taylor and Francis group, AAP –Apple Academic Press**.New Jerisy, USA, July 2022, www.appleacademicpress.com
5. Book chapter on ‘. **Valuable Products from Thermal Degradation of Industrial Waste Lignin in the Presence of Chemical Additives**’ in the book ‘Sustainable Engineering, Energy and the Environment; Challanges and Opportunities, **CRC Press, Taylor and Francis group, AAP – Apple Academic Press**.New Jerisy, USA, July 2022, www.appleacademicpress.com
6. Book chapter on ‘. **Futuristic Scope for Biofuels and Their Production**’ in the book ‘Sustainable Engineering, Energy and the Environment; Challanges and Opportunities, **CRC Press, Taylor and Francis group, AAP –Apple Academic Press**.New Jerisy, USA, July 2022, www.appleacademicpress.com

Faculty Development Courses Attended and completed:

1. Short-term course: 2 weeks on “Advanced Materials and Latest Trends in Computer Technology” 29thOct-10th Nov 2001 organized by ISTE at Priyadarshini College of Engg. & Arch. Nagpur.
2. AICTE sponsored short-term course: 2 weeks on “Technical Teachers Empowerment Programme”, 5th –17th July 2004, organized by Dept. Mechanical Engg. VNIT, Nagpur.
3. UGC sponsored “Capacity Building Workshop of Women Managers in Higher Education”1st – 5th Sept’09, organized by Mahila Mahavidyalaya, Nagpur.
4. Five days workshop on “Foundation course on Human Values and Professional Ethics”Under Teacher Training Induction Program organised on behalf of AICTE, 18th to 22nd December 2017,by KDK College of Engineering, Nagpur.
5. Eight weeks FDP on “Accreditation and Outcome Based Learning” NPTEL online certification under Swayam during August – October 2019 with a score of 84%.
6. Tweleve weeks FDP on “ NBA Accreditation and Teaching Learning in Engineering” NPTEL online certification under Swayam during January - April 2020 with a score of 80%.

7. DST sponsored one week training program on "Characterization using Sophisticated Instruments" under Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) organized by Department of Chemistry, VNIT, Nagpur and NIT, Warangal during 8-14 August 2022.
8. MS-DEED level 1 online workshop on "Introduction to Innovative Pedagogies for Science & Mathematics Undergraduate Teachers from 14th to 16th September 2022 organised at Indian Institute of Science Education and Research, Pune.

Fellowship of Academic bodies and Professional Societies:

- Life member of Indian Society of Technical Education
- Life membership of Chemical Research Society of India.
- Member of Indian Pulp & Paper Technical Association.
- Life member of Society for Technologically Advanced Materials of India

Member on Editorial Board

- Honorary Member in Referee Board for Online International Inter Disciplinary Research Journal
- Member of Advisory Board for World Research Journal of Chemistry, Bioinfo Publication.
- A R Research publications and Conference World

Worked as Reviewer

- International Journal of Industrial Chemistry(Springer)
- Chemistry International
- Science journal of RTM, Nagpur University 2018

Expert Lecture Delivered

1. Expert Lecture delivered at one day workshop "Planning of Course contents of Research Methodology in Applied Sciences" on 25th October 2005 at Priyadarshini College of Engg., Nagpur.
2. Expert Lecture delivered as a resource person for the subject Applied Chemistry at J.D.College of Engg., Nagpur on 16th and 17th Feb'10
3. Expert lecture delivered on the topic "lignin: a promising bio material" in ISTE approved STTP on 'Recent Trends in Engineering & Material' on 19th July 2016 at Priyadarshini Bhagwati College of Engg., Nagpur.
4. Expert member on panel Discussion in "Girl Script India Summit 2018".
5. Expert lecture delivered on "Corrosion of Metals" in Certificate course on Industrial Chemistry and its Applications on 5th February 2019 at Jawaharlal Arts, Commerce and Science College, Nagpur.
6. Expert lecture delivered on "Outcome based Learning" in AICTE approved one week FDP on Emerging Pedagogical Technologies for Development of Research Oriented Teaching Learning Process on 20th Dec 2019 at Shri Shankarprasad College of Engineering, Wardha.
7. Expert lecture delivered on the topic "Management of Industrial Waste- Lignin as a promising Biomaterial" in online one week Faculty Development Program on 'Waste Management and its impact on the environment' on 23rd July 2020 Jointly organized by G.H.Raisoni of College of Engg., Nagpur and Institution of Engineers and Indian water Works Association.
8. Expert lecture delivered as a resource person in "Online orientation program for B.E.first year new syllabus of Energy and Environment" on 5th February 2021.Jointly organized by Ramdeobaba College of Engineering and Management, Nagpur and Rastrasant Tukadoji Maharaj Nagpur University.
9. Expert lecture delivered on "Code of Conduct" for newly admitted students of B.Tech. First year.

10. Expert lecturer delivered in Workshop on Teaching Competencies at Priyadarshini College of Engineering, Nagpur.
11. Judged various events like Paper presentation, Poster presentation, Project exhibition at various institutes

Conference/Seminar/STTP Organised

1. Co-Chairman of Internationally Sponsored One Day Workshop on “Santilli’s New Mathematics for 21st Century sciences” on 16th April 2013.
2. Coordinator for one week ISTE approved STTP on ‘Recent Trends in Engineering Materials’ from 18th to 22nd July 2016 at PBCOE.
3. Co-Convener for International conference on Science, Engineering and Technology, 30th May 2019 to 1st June 2019 at Tashkent, Uzbekistan organized by Priyadarshini Bhagwati College of Engineering in collaboration with STAMI.
4. Convener for one day workshop on Curriculum Development of Engineering Chemistry and Materials Chemistry in collaboration with RTM Nagpur University on 18th June 2019 at PBCOE, Nagpur.
5. Convener of National conference in the capacity of IQAC coordinator on “Innovative Technologies on Agriculture” organised on 24th and 25th March 2022 at PBCOE, Nagpur.
6. Co-Chairperson of “Industry Academia Conclave” in the capacity of IQAC coordinator organised on 28th and 29th September 2022 at PBCOE, Nagpur.

Conference, Seminars, Workshops and symposiums Attended

1. National seminar “Treatwaste 99”, Jan-1999, at L.I.T. Nagpur.
2. National seminar “Treatwaste 2001”, Jan-2001, at L.I.T. Nagpur
3. One day seminar on “Flexible Packaging”, October 2001, at PCEA, Nagpur in Collaboration with Indian Plastics Institute Nagpur Chapter
4. One Day Seminar “Conducting organic Polymers”, Oct-2001, at Deptt. of Physics, University Campus, Nagpur.
5. State level seminar “Chemo-vision”, Dec-2001, at Ambedkar College Nagpur.
6. One Day Seminar “Newer Developments and business opportunities in Plastic”, Jan-2002, organized by IPI, at VRCE, Nagpur.
7. National conference “Pollution Prevention and Control in India 2002”, March-2002, at VRCE, Nagpur.
8. “Syllabus restructuring Workshop of Applied Chemistry B.E.Iyr.” Aug-2002, at R.G.C.E.T., Chandrapur.
9. National Symposium on “Environment and Pollution”, Sept-2002, Indian Society for Analytical Scientist Nagpur Chapter.
10. Two Day Seminar “Sustainable Development of Nagpur”, Nov-2002, at Udyog Bhavan, Nagpur.
11. Seminar on “Bamboo Technology”, Jan-2003, at PCE, Nagpur
12. One Day “Patent Awareness Workshop” March-2003, at Nagpur University, Nagpur.
13. One Day Seminar on “Make Money from Bamboo”, Sept-2003, Organized by Vidharbha Entrepreneurship Development, Nagpur
14. One Day National Seminar on “Advanced Materials” Feb 2004, Organized by Kamla Nehru Mahavidyalaya, Nagpur.
15. Workshop on “Essaying Emotional Empowerment”, March 2004, Organized by PCEA, Nagpur.
16. Seminar on “Environmental Impact Awareness, July 2004 Organized by YCCE, Nagpur
17. One Day National Workshop on “Biofuel- Future Fuel for Transformation” October 2004, organized by V.N.I.T., Nagpur.
18. One Day National Workshop on “Trends in Analytical Instrumentation”, May 2005 organized by Indian Society for Analytical Scientist Nagpur Chapter.

19. One day workshop on "Application of adhesives in Industries" in July 2005 at Priyadarshini College of Engg. & Architecture, Nagpur
20. TEQIP sponsored National workshop on "Characterization of Materials" 28-30 Sept.2006 at V.N.I.T., Nagpur.
21. National Symposium & Conference on Solid State Chemistry & Allied Areas, ISCAS-2007, 28-30 November 2007, Dept. of Chemistry, RTM Nagpur University,
22. 3rd National Conference on Thermodynamics of Chemical and Biological Systems, 16th and 17th Oct 2008, Department of chemistry, RTM Nagpur University , Nagpur.
23. National Symposium on advances in Polymer and Textile Technology, Polytex 2009, 13th and 14th Feb 2009 at V.N.I.T., Nagpur.
24. UGC sponsored National Conference on "Synthesis and Characterization of new materials and its Application on 15th March 2009, organised by Kamla Nehru Mahavidyalaya, Nagpur
25. "Syllabus restructuring Workshop of Applied Chemistry B.E.Iyr." June-2009, at R.G.C.E.T., Chandrapur
26. National Conference on " Chemistry for the Protection of environment" on 18th and 19th Dec'09, organised by Priyadarshini Institute of Engg. And Technology, Nagpur
27. "National Conference on Nanomaterials and Nanotechnology" 18th, 19th and 20th Jan'2010, organised by Visvesvaraya National Institute of Technology, Nagpur.
28. International Conferences on Chemistry for Mankind, 7th – 9th Feb.2011, Dept.of Chemistry, RTMNU, Nagpur & Institute of Science, Nagpur
29. National Conference on Materials : Atom to molecule, 16th December 2011, Department of Chemistry, Shivaji Science College Nagpur
30. National conference on "Technologies in Engineering and Science for Energy Application", 2nd & 3rd Jan'2012, Ambedkar College Nagpur
31. National seminar on "Emerging Trends in Chromatography" 25th Feb'2012, J.L.Chaturvedi College of Pharmacy, Nagpur.
32. National conference on Advanced Materials for Engineering and Technology, 15th -16th March 2012, Priyadarshini College of Engineering, Nagpur.
33. II World Congress for Man and Nature – 2012 on "Global Change: Impact on Biodiversity, Culture and Technology" 3rd to 5th Nov. 2012, Sevadal Mahila Mahavidyalaya , Nagpur.
34. Workshop on Curriculum Development of Materials Chemistry, B.E.II sem, RTMNU, Nagpur, 27th Dec 2012, Anjuman College of Engineering, Nagpur.
35. National conference on Advanced research trends in sciences, 18th -19th Jan 2013, G.H.Raisoni College of Engineering, Nagpur.
36. National Conference on Advanced Functional Materials, 21st – 23rd Jan 2013, V.N.I.T., Nagpur
37. NAAC Sponsored National Conference on "Institutional Quality Improvement: Role of Governance, Leadership and Management", 18th -19th Aug 2014, Shivaji Science College, Nagpur
38. National seminar on "Science for National Development" 14-15 March 2015 , V.N.I.T., Nagpur
39. Workshop on Curriculum Development of B.E.I & II sem on Engineering Chemistry and Materials Chemistry, RTMNU, Nagpur, 22nd April 2015, Anjuman College of Engineering, Nagpur.
40. International Conferences on Nature Inspired Initiatives in Chemical Trends, 19th -20th September 2016, Indian Institute of Chemical Technology, Hyderabad.
41. National Seminar on Modern Methods in Organic Synthesis (MMOS-2017), 20th -21st March 2017, PGTD, RTMNU, Nagpur
42. One day Training Program on " Introduction to Indian Patenting Procedure", 8th December 2017, jointly conducted by Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur and Priyadarshini College of Engineering, Nagpur.

43. UGC sponsored National conference on “Recent advances in Chemical Sciences”, 26-27 February 2018, Shri Shivaji Science College of Arts, Commerce and Science, Akola.
44. One day workshop on “NAAC' S revised accreditation Framework”, 25th August 2018 at Ramdeobaba College of Engineering and Management, Nagpur.
45. International Conferences on Multidimensional Role of Basic Science in Advanced Technology, 14th -15th December 2018, KDK College of Engineering, Nagpur.
46. National Seminar on “Student Centric learning apart from Chalk and Talk”, 24th January 2019 at Priyadarshini J.L. College of Engineering , Nagpur.
47. One day workshop on “Aanad Shala” for Ph.D.supervisors of RTM Nagpur University, Nagpur, 25th January 2019 at RTMNU, Nagpur.
48. International conference on Science, Engineering and Technology, 30th May 2019 to 1st June 2019, Tashkent, Uzbekistan.
49. National Conference on “New guidelines on ssessment and Accreditation”, 21st Sept.2019, LAD college Nagpur.
50. International Conference on Sustainable and Renewable Energy: Challenges and Opportunities, 15th Dec 2020 to 16th Dec 2020, organized by Priyadarshini Institute of Engg. & Technology, Nagpur.
- 51 .International Conference on Research frontiers in Sciences, 5th Jan 2021 to 6th Jan 2021, organized by G.H.Raisoni College of Engg. , Nagpur.
51. National Seminar on “ Implimentation of National Education Policy-22 and Role of scientific and Technical Terminology in Engineering Education” Sponsored by Ministry of Education, Govt.of india organised at Priyadarshini College of Engineering, Nagpur during 5th to 6th May 2022.
52. IEEE region 10 sponsored one day workshop on”Carbon Footprint Reduction” on 30th July 2022 at VNIT, Nagpur
53. National level Seminar on “Fostering best practice and outreach activities in HEI with accordance to NEP 2020” held on 24th November 2022organized by Anjuman College of Engineering and Technology, Nagpur
54. 108th “Indian science congress” held at RTM Nagpur university from 3rd to 7th Jan 2023

Contribution as Administrator

Involved in various Administrative activities at Priyadarshini Bhagwati College of Engineering, Nagpur & Rashtra Sant Tukadoji Maharaj,Nagpur University

- Carried out responsibility of college administration as an **Incharge Principal** many times.
- Working as **Dean Academics** since 2008.
- Working as an **IQAC Co-ordinator** since February 2016.
- **Worked as NAAC coordinator** for first cycle of accreditation at PBCOE since 2016
- Important Team Member in **AICTE,, NIRF, AISHE, DTE work & All University work.**
- Working as Coordinator (**HOD**) of B.E. I year since 2005.
- **Member Board of Studies and Special Task force,** Applied Science & Humanities Board in the faculty of Engineering and Technology of RTMNU during 2010 to 2017.
- Worked as a member of **Moderation committee** during 2010 to 2015
- Worked as a **Presiding officer of “Women Cell/Internal Complaint Committee”** during 2011-2018
- Appointed by Nagpur University for inspection of one of the new Engg. College for first time affiliation to RTM Nagpur University in August 2008.
- Appointed by RTM Nagpur University as a member of **LEC committee and DTE compliance committee** to various Engg. Colleges.
- Important Team Member for Admission Counselling Process Since 2010.
- Worked as **Chief Supervisor/Officer In charge** for RTM Nagpur University exam, S-2011.
- Appointed as an **Expert on Selection Panel** for conduction of interviews at various Engg. Colleges in Nagpur.
- **Officer on Special Duty to Central Library** during NBA of Priyadarshini College of Engg,Nagpur.

- Departmental **Coordinator for Accreditation** at Priyadarshini College of Engg, Nagpur.
- Committee member of **Academic Maintenance of College** for Accreditation at Priyadarshini College of Engg, Nagpur

Contribution as an Academician

- Total teaching experience of 26 years, from Aug 1996 till date.
- Developed the system to monitor an individual teacher and student in the college and implemented teacher guardian scheme effectively.
- Organized STTP's, workshops, guests lectures for teaching faculty and students.
- Contributed as a teacher, paper setter, moderator, evaluator, examiner etc.
- Member of advisory committee and organizing committee of International Conference / National Conference at various institutions.
- Planning and monitoring of academic for all semester in the capacity of Dean academics
- Preparation of various standard academics formats at college levels
- Attending classes of faculty members and their counselling.
- Conduction of remedial classes, performance improvement workshops & crash courses for students.
- Encouraging students for participation in technical activities
- Identification of Slow and advanced learners and Special efforts for result improvement
- Conduction of parents meeting twice in a year
- Planning & conduction of various technical programs at national state & university level for faculty & students.
- Conduction of various curricular & co curricular activities.
- Encouraging students for participation in Training and Placement activities
- Syllabus setting of Engineering and Materials Chemistry for B.E. and fuels and Lubricants for M.Tech. open electives (CBCS)
- Developed excellent culture of harmony in campus ultimately resulting in creating sense of belonging and very good work culture among the staff members.
- Actively involved in various cells in the college for the overall development of the college like NSS cell, T&P cell, Student cell, Alumni cell, R&D cell, Anti ragging cell, Sports cell, III cell, ED cell, Academic monitoring cell, Feedback system and many more.
- Working as a Project guide for Post graduate and undergraduate students.
- Motivated student to go for industry based projects.
- Encouraged faculty in the organization and from other institutions to carry research and publish their work and guided them.
- Signed MOUs with various companies & organization.
- Set up Applied Chemistry Laboratory twice
- Organized various events in the college in the capacity of **IQAC coordinator** that is essential for exploring hidden talent among the students and help them to develop in proper direction.
 - Workshop on personality development for non teaching staff
 - Installation of Innovation club at college level
 - Induction and orientation program for first year students
 - Certification courses
 - Workshops/Expert Lectures/seminars/symposiums
 - Evaluation of students projects by Experts from Industry and Academia
 - Annual social gathering 'Nirmaan'
 - National convention for students 'Aaddhyaan'
 - Annual sport meet "KRIDAMAHOTSAV"
 - Intercollegiate singing competition "GUNJAN"
 - Students forum in various department
 - Industrial visit

- Interaction with Industrial person with students
- Training to the students for Communication Skills/ Soft Skills
- Motivated students to participate in various events like project competition, paper presentation, robo race etc, at inter collegiate, university level.
- Health awareness programs for teachers and students.

Contribution towards Society:

- Organized many Blood donation camps during last 12 years.
- Organized Tree Plantation Programs for making environment green and pollution free.
- Organized ‘Say No To Plastic Campaign’ in the Chitnavis Nagar, Nagpur
- Worked in cleanliness drives at various places.
- Organized various events and Shramadan for old people in Panchawati Vriddha-Aashram, Nagpur.
- Every year organized a program ‘Gyaan-Deep’- felicitation of senior teachers to recognize their contribution to the society and appreciate their devotion, love, contribution in the development of society
- Encouraged the drive for the awareness of safety rules for common people.
- Organized a program on “Healthy Women for Healthy society” on account of Women’s day at college campus.
- Helped the poor students in different ways for providing education.
- Contributed for the betterment of ill people and helped them in crises.

Participation in Extra Curricular Activities

- Organized HIV awareness programme for students of B.E.I year & other Junior colleges at Priyadarshini Bhagwati College of Engg., Nagpur
- Participated in Television Programme on E-TV Marathi, Mumbai.
- Participated in Cultural programme, Tree plantation program, Shramadan and Snehbhoj at Panchavati Vriddhashram and various social programmes on Founder’s Day of LTJSS.
- Participated in My FM Programme ,Nagpur.
- “Lokmat Times” published my interview in their prestigious daily on guidance to students.
- Daily news paper “Tarun Bharat” published my interview on Social responsibilities.
- Invited as a Chief guest at Maharashtra Kamgar Kalyan Mandal, Nagpur on account of Swami Vivekanand Jayanti in 2019
- Invited as Guest of Honour for Science Association program at Manohar Bhai Patel College of Arts, Commerce and Science, Sakoli on 18th March 2019.

PERSONAL INFORMATION

Husband’s Name : Rajeev Yashwant Chaudhari.
 Date of Birth : 8th November 1970.
 Nationality : Indian.
 Interest and Hobbies : Teaching, Interacting with students, Building Relationships, Research & Development and Reading books.

Archana Rajeev Chaudhari)