

## Curriculum Vitae



### Dr. Jaman Adelu Angulwar

#### **Present Address**

Department of Chemistry,  
Dayanand Science College,  
Latur – 413512, Maharashtra, India.  
Email Id: [jaangulwar@gmail.com](mailto:jaangulwar@gmail.com)

Gender : Male  
DOB : 01<sup>st</sup> May, 1980  
Marital Status : Married  
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#### **Academic Qualification**

##### **2005 - Present**

**Assistant Professor** in Chemistry, Department of Chemistry and Industrial Chemistry (College with Potential for Excellence, UGC Re-Accredited to "A" Grade by NAAC, DST-FIST Sponsored College & Best College Award from S. R. T. M. University, Nanded) Dayanand Science College, Latur-413512, Maharashtra, India.

##### **2010 – 2015**

**Ph.D.** in Chemistry, Swami Ramanand Teerth Marathwada University, Vishnupuri, Nanded, Research Centre in Chemistry, Department of Chemistry, Yeshwant Mahavidyalaya, Nanded, Maharashtra, India.

##### **March-2004**

**SET** Chemical Science (Chemistry), UGC approved conducted by Pune University, Pune-411007, Maharashtra, India.

##### **2001 – 2003**

**M. Sc.(Chemistry)**, Department of Chemistry, Yeshwant Mahavidyalaya, Nanded, Maharashtra, India.

**1998 – 2001**

**B.Sc. (Physics, Chemistry, Mathematics),**  
Department of Chemistry, Lal Bahadur Shastri  
Mahavidyalaya, Dharmabad, Maharashtra, India.

### **Areas Of Research**

- Heterocyclic Chemistry: Medicinal Chemistry, Synthetic Methodology, Multicomponent Reactions.
- Organic Synthesis, Green chemistry.

### **Research Supervisor**

- Recognition as Research Supervisor by S.R.T.M. University Nanded On dated 9/3/2019.
- Four Research students are working for Ph. D. degree under my guidance.

### **Ph.D Details**

- Ph. D thesis title: **Synthesis of Novel fused Heterocycles and studies on their chemistry and Biological Activities.**
- Guide Name: **Dr. Vijay N. Bhosale, Research Supervisor, Yeshwant Mahavidyalaya, Nanded (MS). India.**
- University: **Swami Ramanand Teerth Marathwada University Vishnupuri, Nanded–431606, Maharashtra State, India.**
- Date of Registration: **20 September 2010.**
- Date of Award: **04 September 2015.**

### **P.G. Teacher in Chemistry**

- Recognized as P. G. Teacher by Swami Ramanand Teerth Marathwada University, Nanded on dated 26/2/2011.

### **List of Paper Publications (Published in Refereed Journals):**

1. Tannic acid: An Efficient catalyst for the Synthesis of Bis-(5-hydroxycoumarin-3-yl) methanes. Nana S. Shitole, **J.A. Angulwar**, B. A. Ankush, P.G. Kumdale. International Journal of Green and

Herbal Chemistry, E-ISSN: 2278-3229, Sec.-A Vol-8 No.4  
**November -2019** PP- 823-828.

<https://www.ijghc.com/faq.php?category=Green%20Chemistry&volume=8&issue=4>

2. DBU Catalysed solvent free Microwave-Assisted One-Pot Three-Component Synthesis of Pyrano Pyrimidine Trione with its Derivatives. V.N. Bhosale, A.R. Karad, N.B. Wadwale, G.S. Khansole, **Jaman A. Angulwar**, S.S. Choudhare. Ajanta ISSN: 2277-5730, Vol-8, **March-2019** PP-26-33.  
<http://www.ajantaprakashan.com/>
3. Microwave-assisted Solvent Free One-pot Three-component Synthesis of Novel Pyrano pyrimidine trione Derivatives. Vijay N. Bhosale, Navanand B. Wadwale , Ashok R.Karad , Gopinath S. Khansole , **Jaman A. Angulwar** , Sunil S.Choudhare, Curr. Pharm. Res. ISSN: 2230-7842, 10(1), **2019**, PP- 3577-3585
4. Tetrabutyl ammonium Hydrogen Sulphate mediated Three component reaction for the synthesis of Thiadiazolo[2,3-*b*] Quinazolin-6(7-*H*) -ones and Antioxidant Activity. G .S. Khansole, Divya Prasad, **Jaman A. Angulwar**, V.N. Bhosale. Materialstoday:Proceeding, Elsevier ISSN:2214-7853 . (9) **2019**, PP-653-660.  
<https://www.elsevier.com/journals/personal/materials-today-proceedings/2214-7853>
5. Novel Synthesis and Antimicrobial Activity of 7-Substituted Derivatives of 7-(methylthio)-5-oxo-2-phenyl-5H-[1,3,4]thiadiazolo[3,2-*b*]-pyrimidine-6-carbonitrile. **Jaman A. Angulwar** , G.S. Khansole, V.N. Bhosale. Asian Journal of Organic and Medicinal Chemistry. ISSN: 2456-8637 **March-2019** page no.40-45.  
[https://ajomc.asianpubs.org/user/journal/viewarticle.aspx?ArticleID=4\\_1\\_9](https://ajomc.asianpubs.org/user/journal/viewarticle.aspx?ArticleID=4_1_9)
6. Synthesis and Antioxidant Activity of Pyrimido [4,5-*d*] Thiadiazole [3,2-*a*] Pyrimidinedione. G.S. Khansole, **Jaman A. Angulwar**, V.N.

Bhosale, S.S. Choudhare. International Journal of Research and Analytical Reviews. ISSN: 2348-1269 **March-2019** page no. 525-530.

<file:///C:/Users/user/Downloads/IJRAR1AAP132.pdf>

7. Synthesis, Antimicrobial Activities of Pyrano [2,3-*d*] Pyrimidine Derivatives. **Jaman A. Angulwar**, Gopinath S. Khansole, Vijay N. Bhosale. International Journal of Chemical and Physical Sciences. ISSN: 2319-6602, **2018**, 7 Special Issue (1-9).  
[https://www.ijcps.org/abstract.php?article\\_id=657](https://www.ijcps.org/abstract.php?article_id=657)
8. An Efficient one Pot Synthesis of 2-Amino-4*H*-Benzo[*B*] Pyran Catalyzed By Tetrabutyl Ammonium Hydrogen Sulphate in Aqueous Media. **Jaman A. Angulwar**, Gopinath S. Khansole, Vijay N. Bhosale. Heterocyclic Letters, ISSN:2230-9632, **2018**, 8, 213-220.  
<http://www.heteroletters.org/issue81/PDF/Paper-26.pdf>
9. Design and one-pot synthesis of hybrid thiazolidinone based triazines derivatives as potent antimicrobial agents against human disease-causing pathogens. Ravindra S. Shinde, **J. A. Angulwar** - *International Journal of Recent Trends in Science and Technology*, ISSN: 2249-8109, **2018**, Special ISSU, 7(7), 102-104.  
[https://statperson.com/Journal/ScienceAndTechnology/Article/SpecialIssue/ICRAFHN\\_28.pdf](https://statperson.com/Journal/ScienceAndTechnology/Article/SpecialIssue/ICRAFHN_28.pdf)
10. A facile Synthesis of Some New Pyrimido[2,3-*d*]-1,3,4-thiadiazoles with their Biological Potential. G. S. Khansole, **Jaman A. Angulwar**, V. N. Bhosale, Indian Journal of Heterocyclic Chemistry, ISSN: 0971-1627, **2018**, 28, 267-274.  
<https://www.tib.eu/en/search/id/BLSE%3ARN616645223/A-Facile-Synthesis-of-Some-New-Pyrimido-2-3-d-1/>
11. One pot, Four-Component for the Synthesis of Pyrano Pyrazole Derivatives using TBAHS as a Green catalyst and Biological Evaluation, V. N. Bhosale, G. S. Khansole, **Jaman A. Angulwar**,

- Sunil S. Choudhre, Asian Journal of Research in Chemistry, ISSN: 0974-4150, **2017**, 10 (6), 745-749.  
<http://ajrconline.org/HTMLPaper.aspx?Journal=Asian%20Journal%20of%20Research%20in%20Chemistry;PID=2017-10-6-6>
12. In Vitro Antioxidant Activity of 9-substituted derivatives of 9-Phenyl-5,9-dihydropyrimido [4,5-d] [1,2,4] triazolo[1,5-a] pyrimidine 6,8 (1H,7H)-dione. V. N. Bhosale, G. S. Khansole, **J. A. Angulwar**, World Journal of Pharmacy and Pharmaceutical Sciences, ISSN: 2278-4357, 2016, 5(5), 1434-1441.  
[file:///C:/Users/user/Downloads/article\\_wjpps\\_1462000362.pdf](file:///C:/Users/user/Downloads/article_wjpps_1462000362.pdf)
13. Synthesis and Antioxidant, antimicrobial activity of 9-substituted derivatives of 6,7-dihydro-6,6-dimethyl-9-(4-phenyl) tetrazolo [5,1-b] quinazolin-8(3H, 5H, 9H)-one. V. N. Bhosale, G. S. Khansole, **J.A. Angulwar**, S. S. Choudhare, World Journal of Pharmaceutical Research. ISSN: 2277-7105, 2016, 5(2), 1261-1268.  
[file:///C:/Users/user/Downloads/article\\_wjpr\\_1454152194.pdf](file:///C:/Users/user/Downloads/article_wjpr_1454152194.pdf)
14. Cesium Fluoride catalysed tandem Knowvengel-Michael reaction for the synthesis of 6-amino-1,4-dihydro-3-methyl-1,4-phenyl pyrano [2,3-c] Pyrazoles, V. N. Bhosale, G. S. Khansole, **J.A. Angulwar**, Der Pharma Chemica, ISSN: 0975-413X, 2015, 7(6), 126-130.  
<https://www.derpharmachemica.com/pharma-chemica/cesium-fluoride-catalysed-tandem-knowvengelmichael-reactionfor-the-synthesis-of-6amino14dihydro3methyl14phenylpyrano-23c.pdf>
15. A Facile and efficient synthesis of 4-substituted derivative of 2-oxo-4-phenoxy-6-phenyl-2H-pyran-3-carbonitrile. V. N. Bhosale, G. S. Khansole, **J.A. Angulwar**, Der Chemica Sinica, ISSN: 0976-8505, 2015, 6(12), 55-58.  
<http://www.imedpub.com/articles/a-facile-and-efficient-synthesis-of-4substituted-derivatives-of2oxo4phenoxy6phenyl2hpyran3carbonitrile.pdf>

16. Multi Component reaction for the synthesis of 1,4-dihydropyrano [2,3-c] pyrazole derivatives using Cesium Chloride as a Green catalyst with its biological activities. V. N. Bhosale, **J.A. Angulwar**, G.S. Khansole, S.S. Choudhary, Published in, National Level Seminar. Role of Chemical Sciences in Overall Development of Human Being. Adarsh Mahavidyalaya, Omerga, Dist. Osmanabad. ISBN No. : 978-93-83193-50-9. 2015. 119-127.
17. Synthesis of pyranopyrazoles derivatives using Ionic Liquids and Application of computer program PASS with their toxicity risk assessment. V. N. Bhosale, **J.A. Angulwar** Published in, 2<sup>nd</sup> International Conference on Emerging Trends in Computer Science, Communication and Information Technology Y. M. Nanded. ISBN No. : 978-81-923487-1-1, 2015, 385-39.
18. One pot three-component condensation for the synthesis of 1,4-dihydropyrano[2,3-c] pyrazoles using cesium fluoride as an efficient catalyst. V. N. Bhosale, **J.A. Angulwar**, G. S. Khansole, G.S.Waghma, Journal of Chemical and Pharmaceutical Research, ISSN: 0975-7384, 2014, 6(4), 733-737  
<http://www.jocpr.com/articles/onepot-threecomponent-condensation-for-the-synthesis-of-14dihydropyrano23cpyrazoles-using-cesium-fluoride-as-an-efficien.pdf>
19. A new and Facile Method for the synthesis of Phenyldihydropyrimidines with its Substituted derivatives and their microbial evaluation. , V. N. Bhosale ,S.S.Tiwade **J.A. Angulwar**, G. S. Khansole, International Journal of Research in Pharmaceutical and Biomedical Sciences, ISSN: 2229-3701, 2013, 4(3), 2013.

## **Paper (Oral & Poster) Presentations:**

### **[A] International Conferences**

1. Synthesis of dihydropyrimidinones Without any solvent or catalyst and its substituted reaction. 17<sup>th</sup> International Conference on

**“Expanding Horizons in Chemical and Biological Sciences: Innovation Crossroads.”** held on 21-23, January, 2012 Solapur University, Solapur. Vijay N. Bhosale, G. S. Khansole **Jaman A. Angulwar**

2. Dihydropyrimidinones Synthesis Without any solvent or catalyst and its substituted reaction. 2<sup>nd</sup> International Conference on **“Emerging Trends in Chemical Sciences.”** held on 02-04, Nov., 2012 Solapur University, Solapur. . Vijay N. Bhosale, P. A. Kulkarni, G. S. Khansole **Jaman A. Angulwar.**
3. Cesium Fluoride as an Efficient and Reusable Catalyst for One-Pot Synthesis of Tetrahydro Benzopyranes. International Conference on **“Emerging Trends in Chemical Sciences.”** 05-07<sup>th</sup> Dec. 2013.VIT University, Vellore. Vijay N. Bhosale, **Jaman A. Angulwar**, G. Khansole.
4. TBAHS as a green catalyst for the synthesis of pyrano pyrimidine. International Conference on **“Green Technologies for Environmental protection.”** 29-30 Dec. 2014, Vijay N. Bhosale, **Jaman A. Angulwar**, G. S. Khansole.
5. Design and one-pot synthesis of hybrid thiazolidinone based triazines derivatives as potent antimicrobial agents against human disease-causing pathogens International Conference on **“Recent Advances in food Herbal and Nano Technology.”** 12-13 Jan. 2018, R. S. Shinde, **Jaman A. Angulwar.**
6. TBAHS as a Green Catalyst for the synthesis of pyrano pyrimidine, International Conference on “Green Technologies for Environmental Protection”, held on 29-30<sup>th</sup> Dec.-2014 at V.V. College of Arts, Commerce, Science and Post Graduate Studies, Jambagh, Hyderabad, T.S.

## **[B] National Conferences**

1. A novel method for the synthesis of 4-substituted derivatives of 2-oxo-4-phenoxy-6-phenyl-2H-pyran-3-carbonitrile, National Conference on "Recent Trends and Advances in Chemical Sciences" held on 12-13 January-2016, B.Raghunath Arts, Commerce and Science college, Parbhani.
2. Synthesis and biological evaluation of pyrano pyrimidine, National Conference on Advances in Chemical sciences held on 31<sup>st</sup> August, 2019, Yeshwant Mahavidyalaya, Nanded.

## **List of Publication (Other than Research Papers):**

Chapter in Edited Book: 01

Book Published: 01

## **Professional Activities**

1. Life Member of **Indian Science Congress**, India. Membership no.: L 32464.
2. Invited talk in National Conference at Shri Y. P. College, Solankur, Dist. Kolhapur Dt. 06.01.2018.
3. Resource Person in Workshop on "Techniques to Qualify NET-SET examination" at R. S. College, Latur Dt. 26.9.2018.
4. Invited as Guest Lecturer in M. B. College, Latur dt. 22.1.2019.

## **Participation in National and State level Conference /Seminar/ Workshops**

1. One day online Workshop on Scope of New Syllabus of Chemistry and Allied Subjects For B. Sc. Second Year held on 31<sup>st</sup> August, 2020, Toshniwal Arts, Commerce and Science College, Sengaoon, Dist. Hingoli.



2. One day workshop on Intellectual property Rights: Indian Scenario held on 16<sup>th</sup> December, 2019, Dayanand Science College, Latur.
3. One day workshop on Intellectual property Right and Patent Filing held on 4<sup>th</sup> December, 2019, Dayanand College of Arts, Latur.
4. One day Workshop on Energy Awareness and Management held on 9<sup>th</sup> August, 2019, Dayanand Science College, Latur.
5. One day workshop on Intellectual property Right (IPR) Awareness for Teachers, held on 16<sup>th</sup> February 2019, Rajarshi Shahu Mahavidyalaya, Latur.
6. One Day Workshop held on 2<sup>nd</sup> October 2018, Dayanand Education Society, Latur.
7. 106<sup>th</sup> Indian Science Congress held at Lovely Professional University, Phagwara, Jalandhar, from January 3 to 7, 2019.
8. National Seminar on "Intellectual Property Right" held on 22<sup>nd</sup> Sept. 2018, Dayanand Science College, Latur.
9. Workshop on B.Sc. Third Year Syllabus Structure CBCS in Chemistry, held on 14<sup>th</sup> July 2018, Gramin (A.C.S.) Mahavidyalaya, Vasantnagar, Mukhed.
10. Workshop on Skill Enhancement Course (SEC) CBCS in Chemistry, held on 6<sup>th</sup> Aug. 2018, Dayanand Science college, Latur.
11. National Conference on "Recent Trends in Chemical Science and Its Interdisciplinary Applications" held on 6<sup>th</sup> Jan. 2018, Shri Y.P. Science College, Solankur Dist.Kolhapur.
12. State level Workshop on Basics of Intellectual Property and Filing Patents, held on 2<sup>nd</sup> Dec. 2017, Dayanand College of Commerce, Latur.
13. National Seminar on Intellectual Property and Patent Filing, held on 3<sup>rd</sup> Oct. 2017, Shri Kumarswami Mahavidyalaya, Ausa.

14. One Day Work Shop on B. Sc. Second year CBCS Pattern Curriculum held on 5<sup>th</sup> August 2017 Arts, Commerce and Science College, Shankarnagar Dist. Nanded.
15. International Conference on Mathematical Analysis and its Applications held on date-5-9 March 2017, as Organizing Committee member, Dayanand Science college, Latur.
16. National Seminar on "Present scenario and future Challenges of autonomous colleges" held on 17-18, April, 2017 at Rajarshi Shahu Mahavidyalaya, Latur (Maharashtra).
17. National Symposium on "Recent Advances in Chemical and Material Sciences" held on 20-21 August-2016, Rajiv Gandhi University of Knowledge Technologies-Basar.
18. International Conference on "Recent Development in Engineering Science, Management and Humanities", held on 13<sup>th</sup> March-2016, Mahatma Basweshwar Mahavidyalaya, Latur.
19. Workshop on "The Scope of Revised (CBCS) Curriculum of M.Sc. (I & II) Chemistry and Allied Subjects", held on 9<sup>th</sup> September-2015 at L.B. S. College, Dharmabad, Dist. Nanded.
20. National seminar on "Role of Chemical Sciences in overall Development of Human Beings" held on 23-24<sup>th</sup> Jan.-2015, Adarsh Mahavidyalaya, Omerga.
21. National seminar on "Modern Approaches of Spectroscopic Techniques in Chemical, Pharmaceutical and Life sciences" held on 16-17<sup>th</sup> Jan.-2015 at Yeshwant Mahavidyalaya, Nanded.
22. National Conference on "Current Innovation in Chemical Research" held 22-23<sup>th</sup> Dec.-2014 at K.G.S. College, Kopergaon.
23. National Conference on "Green Processes and Nano Materials" held 8-9<sup>th</sup> Jan.-2014 at Hindustan University, Chanai.

24. National Conference on "Recent trends in Chemistry Education" held 13-14<sup>th</sup> Dec.-2013 at S.S. College, Aurangabad.
25. State Level Seminar "Green Chemistry as an Environmentally Benign Chemistry" held on 31<sup>st</sup> Aug.-2013 at R.P. College, Osmanabad.
26. State level seminar on "Recent Trends in Chemistry" held on 31 Aug. 2012 at Mahatma Basweshwar Mahavidyalaya, Latur.
27. National Seminar on "Science, Scientists and in 21<sup>st</sup> Century", held on 30<sup>th</sup> March-2012 at Mahatma Basweshwar Mahavidyalaya, Latur.
28. National Seminar on "Eco Friendly Synthesis and Organic Compound" held on 04-05<sup>th</sup> Nov. 2011 at Dayanand Science College, Latur.
29. Workshop on "Implementing New Examination Pattern -2011" held on 06<sup>th</sup> Dec. 2011, Dayanand College of Commerce of Latur.
30. National Seminar on "Recent Instrumental Techniques in Coordination Chemistry" held on 23<sup>rd</sup> Jan. 2011 at S.C.H. College, Omerga.
31. Workshop on "Workshop on Scope Syllabus in Chemistry" held on 18<sup>th</sup> Dec. 2010, B.S. College, Basmatnagar.
32. National Conference on "Recent Trends in Chemical Research-2010", held on 12-13<sup>th</sup> Mar. 2010 at G.S. Gawande College, Umerkhed Dist. Yavatmal.
33. Workshop on "Role of NSS in Disaster Management", held on 17<sup>th</sup> Dec. 2009 at S.R.T.M. U. Nanded.
34. Workshop on "Scope of New Syllabus of UG And PG Chemistry and Allied Subject", held on 26<sup>th</sup> Nov. 2009 at N.E.S. Science College, Nanded.
35. Seminar on "Nuclear Energy for National Development", 23-24<sup>th</sup> May 2009 at B.A.R.C. Mumbai and Dayanand Science College, Latur.

36. National Seminar on "Recent Advanced in Chemical Kinetics, Co-Ordination and Nano Chemistry" held on 23-24<sup>th</sup> Jan. 2009 at Rajashri Shahu Mahavidhyalaya, Latur.
37. Workshop on "Workshop on Scope and Syllabus in Chemistry at UG and PG Level", held on 18<sup>th</sup> Nov. 2008 at D.S.M. College, Parbhani.
38. National Conference on "Recent Advanced in studies of Metal Complexes" held on 15-16<sup>th</sup> Mar. 2008 at N.E.S. Science College, Nanded.
39. National Seminar on "Recent Advanced in Nano Science" held on 23-24<sup>th</sup> Feb. 2008 at Dr. B. A. M.U. A. bad Sub center Osmanabad.

### **Teaching Experience**

- At Baburaoji Gholap College, Sagvi Pune (01-09-2004 to 23-09-2004)
- At R.B. Attal Coollege, Georai Dist. Beed.(15-09-2005 to 21-04-2005)
- Shri Shivaji Mahvidyalaya, Parbhani (22-04-2006-26-12-2007)
- At Dayanand Science College, Latur (27-12-2007 to till date.)

### **Post Graduate:**

- Organic Chemistry, Spectroscopy, Organic Synthesis, Medicinal Chemistry, Pericyclic Reactions, Photochemistry, Natural Products, Green Chemistry.

### **Undergraduate:**

- Organic Chemistry, Organic spectroscopy, Stereochemistry, Bioorganic and Inorganic chemistry, Chemistry Practical.
- **Administrative Work**
  1. Worked as **NSS Programme Officer** during 2009 to 2012.
  2. Worked as **P.G. Co-Ordinator** of M.Sc. Chemistry from 20-08-2011 to till date.
  3. Worked as **Member of University Exam Committee** in Dayanand Science College, Latur.

4. Worked as **Internal and External Examiner** of M.Sc., B.Sc (Chemistry) Practical Examination.
5. Worked as **Member of UGC sponsored NET/SET coaching cell in chemistry** at Dayanand Science College, Latur.
6. Worked as **Chief Superidant (CS) and Assistant Chief Superidant (ACS)** in University Examination at Dayanand Science College, Latur.
7. Worked as **DCAP Officer S.R.T.M.U. Nanded** at Dayanand Science College, Latur.
8. Worked as **Member of University Squad in University examination** in various Colleges affiliated to Swami Ramanand Teerth Marathwada University, Nanded.

#### **Other Developmental Work**

- UGC Award of Teacher Fellowship under Faculty Improvement Programme during XII Plan period for doing Ph. D. Research work, Date-06-04-2013 to 31-03-2015.
- Swami Ramanand Teerth Marathwada University Vishnupuri, Nanded approved Recognition as a Post Graduate Teacher in chemistry.
- Worked as Member of university paper setting of M.Sc. Chemistry.
- Worked as Chairman of university paper setting of M.Sc. Chemistry.

#### **Orientation/Refresher/Short term courses:**

- Short Term Course on "**Research Methodology for Sciences**" Conducted by UGC-HRDC- R.T.M.N. University, Nagpur Date-19-11-2018 to 24-11-2018.
- Short Term Course on "**Soft Skill for Teachers**" Conducted by UGC-HRDC-D.A.V.V. Indore Date-11.6.2018 to 15-6-2018.
- Completed an **Orientation course** conducted by the UGC-ASC, S. G. B. A. University, Amravati, during 11-11-2011 to 08-12-2011.
- Completed **Refresher Course** in Chemistry Conducted by UGC-ASC, University of Hyderabad, Hyderabad, Date- 11-07-2012 to 31-07-2012.

- Completed **Refresher Course** in Physical Sciences Conducted by UGC-HRDC Punjabi University, Patiala, Date- 20-06-2016 to 09-07-2016.
- Completed Science Academies, **Refresher Course in General Chemistry** Sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, Allahabad and Dayanand Science College, Latur, Date- 21-06-2017 to 05-07-2017.
- Completed a **NSS Orientation course** conducted by Training and Orientation Centre, Ahmednagar College, Ahmednagar, date: 18-03-2010 to 27-03-2010.
- Completed **NSS Refresher Course** Conducted by Training and Orientation Centre, Ahmednagar College, Ahmednagar, Date- 05-02-2011 to 09-02-2011.

**Dr. Jaman A. Angulwar**