

# Teacher Profile



## 1. Personal Details:

Name : **Dr. MADHUKAR BABURAO DESHMUKH**  
Designation : Professor of Chemistry, Shivaji University,  
Kolhapur  
Date of Birth : 1st April, 1954  
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## 2. Academic Details:

Sr. No.	Examination	Board/University	Class/Marks	Year of passing
1.	H.S.C.	S.S.C. Board, Pune	First class with Dist. (72.5%)	1971
2.	B.Sc. ( with Rank)	Shivaji University, Kop.	First class with Dist (76.5%)	1975
3.	M.Sc.	(Organic Chem.), Shivaji University, Kop.	First Class with Dist. (71.8%)	1977
4.	Ph.D.	Physicoorganic Chemistry	Ref-SU/PG/BUTR /IV/ 1983	1983
5.	Post-Doctoral. Research	Karl-Franzens University of Graz, Austria (Europe)	-	1993

1.	<b>Qualification</b>	M.Sc, Ph.D
2.	<b>Specialization</b>	Organic Chemistry
3.	<b>Position</b>	Professor,

**3. Research Specialization** : Synthetic Heterocyclic Chemistry,  
Natural Product, Chemistry,  
Physico: organic Chemistry,  
Co: ordination Chemistry,  
Agrochemical Residue,

**R.G Score (Research Gate Score)** : **33.67**  
**h Index** : **10**  
**i10 Index** : **10**  
**Citations** : **550**

**4. Teaching Experiences** :  
**P.G-33 year**  
**U.G-02year**  
**Total-35year**

**5. Research Guidance** :

Ph. D. : **33** students  
Ph. D. : **08** working  
M.Phil : **11** students  
M.Sc. Projects : **75** students

**6. Research Publications:**  
Publications in National Journals: **105 (Annexure-I)**  
Publications in International Journals: **82(Annexure-II)**

**7. Research Projects:**

Sr. No.	Title of the project	Project expenditure (Rs. In lakh)	Granting agency	Date of start	Date of completion
01	Synthesis and Applications of New Macrocyclic Molecules	Rs-11,93,000/-	UGC, New Delhi.	F.No-41-211/201 (SR)	1st July,2012 ongoing
02	Synthesis and Applications of some new Macromolecules	Rs-12,08,350/-	DST-,New Delhi,	Major Scheme December 2006	December, 2009
03	Synthesis of some Benzofurans and Benzopyrans as possible Insecticides and Pesticides:	Rs-1,75,120/-	DST, New Delhi (Young Scientist Scheme):	Ref:OY/CO O/91-92 :	April, 1993
04	New Synthetic methods in Aziridines	Rs- 1,75,680/-	CSIR, New Delhi:	EMR-II,2/328/91-92:	April,1994

**Details of Ongoing Projects:**

Sr. No.	Title of the Project	Duration		Budget Allocated	Sponsored by
		From	To		
1.	Synthesis and Applications of New Macrocyclic Molecules(F.No-41-211/201(SR)dated	1 <sup>st</sup> June uly,2012	31 <sup>st</sup> May, 2015	Rs- 11,93 ,000/-	UGC, New Delhi.

**8. Membership/Other Charges****1. Details of Experience of Organizing Events:**

Sr. No.	Name of the Event	Place held	Duration		Position held
			From	To	
1.	UGC sponsored Refresher Course for College Teachers	Dept. of Chemistry Shivaji University, Kolhapur	2 <sup>nd</sup> Novem-ber,1998	23 <sup>rd</sup> November,1998	<b>Course Coordinator</b>
2.	International Conference on Drug Discovery (DDPR-I)	Organized. by Dept. of Chemistry Shivaji University, Kolhapur	23 <sup>rd</sup> Jan., 2003	25 <sup>th</sup> Jan..2003	<b>Chairman Academic Session</b>
3.	International Conference on nano-materials and Applications	Shivaji University, Kolhapur:	9 <sup>th</sup> Decemb er, 2008	11 <sup>th</sup> Decembe r,2008	<b>Coordinator</b>
4.	Synthesis of New Materials for Industrial Applications	Dept. of Chemistry, Shivaji Univ. Kolhapur:	Feb.1 <sup>st</sup> , 2008.	2 <sup>nd</sup> ,2008.	<b>Chairman Academic Session</b>
5.	National Seminar on Advanced Synthetic Methodologies and Functional Materials	Dept. of Chemistry, Shivaji Univ. Kolhapur: -	23 <sup>rd</sup> Decem ber, 2009	24 <sup>th</sup> December, 2009	<b>Chairman Academic Session</b>

6.	National Conference on Advances in synthetic methodologies and New Materials	Dept. of Chemistry , Shivaji Univ. Kolhapur :	21 <sup>st</sup> December, 2011	22 <sup>nd</sup> December, 2011	<b>Chairman</b> Academic Session
7.	One day National workshop on Recent Advances in Agrochemicals	Dept. of Agrochemicals & Pest Management ,Shivaji University, Kolhapur	28 <sup>th</sup> Feb.2011	28 <sup>th</sup> Feb.2011	<b>Convener</b>
8.	One day National Conference on New Trends in Pest Management	Dept. of Agrochemicals & Pest Management ,Shivaji University, Kolhapur	31 <sup>st</sup> Jan.2014	31 <sup>st</sup> Jan.2014	<b>Convener</b>

## 2. Experience in Leadership

Sr. No.	Name of the Institute/University/ College	Post held	Duration		Area of Leadership Demonstrated
			From	To	
1.	Shivaji University, Kolhapur	Member, Senate,( As a student)on the basis of B.Sc merit	1975	1976	Participated in Academic & Administratative discussions
2.	Shivaji University, Kolhapur	Member, Senate from Heads of Departments	2005	2006	Participated in Academic & Administratative discussions
3.	Department of Agrochemicals & Pest Management, Shivaji Univ. Kolhapur.	Coordinator	1998	2004	helped farmer in Controlling Sugar Cane White Wolly Aphid in collaboration with VSI, Pune
4.	Department of Agrochemicals & Pest Management, Shivaji Univ. Kolhapur.	Coordinator	2007	2009	Research work on Food safety in collaboration with National Research Centre for Grapes Pune.
5.	Department of Agrochemicals & Pest Management Shivaji Univ. Kolhapur.	Coordinator	2010	2013 till up to date	i)Participated in Organization of Farmer,s Meet.

					ii)Organization of National Seminar on Recent Advances in Agrochemicals
6.	Department of Chemistry ,Shivaji Univ. Kolhapur.	Chairman, M.Sc Exam. (Organic Chemistry)	2003	2008	Revised M.Sc, M.Phil & Ph.D. Syllabi
7.	University Exam. Squad	Chairman, Ad-hoc BOS			University Squad Exam. Committee for Kolhapur District
8.	Agrochemicals & Pest Management ,Shivaji Univ. Kolhapur.	Chairman , Ad-hoc BOS	2008-2013	2010 till today	Revised M.Sc, M.Phil & Ph.D. Syllabi
9.	Solapur University, Solapur	Member , BOS	2006	2008	Revised M.Sc
10.	SRTM University, Nanded	Member , BOS	2009	2010	Revised M.Sc
11.	Industrial Chemistry, Shivaji University, Kolhapur	Chairman , Presently Working Ad-hoc BOS	2012	till today	Revised M.Sc, M.Phil & Ph.D. Syllabi
12.	Shivaji University, Kolhapur S. U. Kolhapur,	Member of BOS Environmental Sciences,	2006	2008	Revised M.Sc,
13.	Shivaji University, Kolhapur	Member Internal Assessment and Accreditation Committee (IAAC)	2008	2009	helped to Improve the Academic performance
14.	Shivaji University, Kolhapur.	Member of Faculty of Science,	2003-	2008	Recommended Credit System. to Science Depts.
15.	Shivaji University, Kolhapur.	Worked as In-charge Dean of Science	Sept. 2010	Decem. 2010	As Official Member of Selection Committee.

### 3. Research Funds for the Departments:

- a) DST, New Delhi - FIST Programme ( As a Plan Coordinator) : 38 lakh (Phase-I)
- b) UGC, New Delhi D.R .S-SAP-1(2007) (As a Plan Coordinator) :50 lakh (Phase-I)

## 9. Memberships of Academic Bodies:

- 1) A) Member of Research & Recognition Committee (RR):
    - i) Chemistry, Shivaji University, Kolhapur
    - ii) AgPM, Shivaji University, Kolhapur
  - B) Member of BOS in Chemistry, SUK
  - C) Chairman of AD-hoc Bos in AgPM, SUK since 2013
  - D) Member of AD-hoc Bos Industrial Chemistry, SUK since 2012
  - E) Member of faculty of Science, SUK
  - F) Member of BUTR, Science, SUK
  - G) Member of AD-hoc Bos in AgPM, Solapur
  - H) Member of AD-hoc Bos in Environmental Sci. SUK
  - I) Member of Syllabus Committee Industrial and Applied Chemistry
  - J) In charge Dean of Science faculty, SUK 2010-11
  - k) Member of UGC, SAP Proposal Screening Committee 2010-11
- 2) Member of Senate Shivaji University, Kolhapur 2005-06

### 3) State & National Level appreciation:

- i) As a member of Syllabi committee of M.P.S.C., Govt. of Maharashtra.
- ii) Book reviewer of Board of Higher Secondary Education, Govt. of Maharashtra.
- iii) *Member of Editorial Board* : i) J. Indian J. Chemical Society, Kolkatta since 1985.
- ii) Member of Editorial Board: Asian J. Chemistry, New Delhi.
- iii) Editorial board Vivek Research Journal, 2011.
- iv) Member of book review committee (HSC board)
- v) Member of Maharashtra Academy of Sciences since 19<sup>th</sup> Oct, 2012
- vi) SET Coordinator of Shivaji University, Kolhapur since 2006
- vii) UGC-NET Coordinator of Shivaji University, Kolhapur during the year 2013-14
- viii) DST-PURSE Programme Coordinator since 2010.

### 4) Research Article Reviewer of the following journals:

- i) Indian J. Chemistry, Sec-B, CSIR, New Delhi.
- ii) J. Indian Chemical Society, Kolkatta.
- iii) Indian J. of Heterocyclic Chemistry, Lucknow.
- iv) International j. of Green Chemistry.

## 10. Details of Books published:

Sr. No.	Title of Books	Discipline	Whether referred for study in Higher Education at the National / International level	ISBN No.	Citation Score if available
1.	Quality parameters and standardization of Indian Wines:	by S.H.Patil, D. P. Oulkar & Prof. M.B.Deshmukh	Lambert Publishing Company, Germany, 2011	ISBN-13:978-3-8443-	-

2.	Synthesis and Insecticidal Activity of Neonicotinoid compounds	C.S.Shripannv ar & M.B.Deshmuk h	Lambert Publishing Company, Germany, 2012-13	ISBN:13 - 978-3659-34351-3	
3	<u>Publication of Chapter in a Book:</u> Trapping of Organomanganese Generated Enolates with an Aldehydes in the Presence of Cu(NCMe) <sub>4</sub> [BF <sub>4</sub> ]	Chemistry for sustainable Development	M.G. Bhowon et al. (eds.), <i>Chemistry for Sustainable Development</i> , Springer ,	ISBN: 978-80-481-86495	-

## 11. Honors /Rewards:

### Other credential and significant contributions, awards received from academic Institutions

Sr. No.	Details (Year, value etc.)	Name and status	Agency	Value in terms of medal/ cash/ citation/ certificate etc.
1.	1975	<b>Mahalaxmi Prize</b>	Shivaji University, Kolhapur	Certificate + Cash Prize( <b>Rs-500/- equally divided</b> )
2.	1975-1977	<b>National Merit Scholarship</b>	Govt. of India	Rs-125 per month
3.	1993	<b>Research Scholarship Award</b>	Govt. of Austria, (Under North South Dialogue Programme)	Fellowship 8040 Shillings /month
4.	2003	<b>Best paper presentation</b>	International Conference on Drug Discovery and Process research (DDPR-1)	Certificate +Cash Prize-1000/-

5.	2004	<b>Best paper presentation</b>	Deccan Sugar Institute Technologists Association DSTA Conference 53 <sup>th</sup> Session held at Pune in Sept.2004.	Certificate + cash Prize Rs-2000/-
6.	2009	<b>Best poster Presentation</b>	National Seminar on Advanced Synthetic Methodologies and Functional Materials organized by Dept. of Chemistry, Shivaji Univ. Kolhapur	Certificate + Cash Prize Rs-500/-
7.	2008	<b>Best Teacher award (Foundation Day)</b>	Shivaji University, Kolhapur	Certificates +Silver Medal of 350 gms. +Cash Prize Rs-1000/- Citation
8.	March 1 <sup>st</sup> - June, 2010.	<b>Visiting Professor</b>	Hanyang University, Seoul, Korea	–
9.	21 <sup>st</sup> & 22 <sup>nd</sup> January, 2011	<b>Best paper poster presentation in National Symposium Chemistry Dept.</b>	Shivaji Univ. Kolhapur	Certificate +Cash Prize Rs-500/-Citation
10.	2011	<b>Best Teacher award</b>	Govt. of Maharashtra,	Certificate + Cash Prize Rs-5000/+Increment
11.	19 <sup>th</sup> November, 2012	<b>Fellow of Maharashtra Academy of Sciences</b>	Govt. of Maharashtra,	Fellowship Certificate

## 12. Publications:

### International Research Publications (82):

1. Synthesis and X-ray crystal structure of (3, 4-dimethoxybenzylidene) propane dinitrile, D. Kour, D.R. Patil, D. R. Kumbhar , V. K. Gupta, M. B. Deshmukh and Rajni Kant **International Journal of Chemistry and Application**, 6(1), 33-38,2014.



2. Novel Brønsted Acidic Ionic Liquid ([CMIM][CF<sub>3</sub>COO]) Prompted Multicomponent Hantzsch Reaction for the Eco-Friendly Synthesis of Acridine diones: An Efficient and Recyclable Catalyst, D. Patil, D. Chandam, A. Mulik, P. Patil, S. Jagdale, Rajni Kant, Vivek Gupta and Madhukar Deshmukh **Catalysis Letters** ,**144** (5), 949-958,2014.
  
3. One pot four component sequential synthesis of hexahydroquinoline derivatives in aqueous media via enamionone intermediates: A green protocol. D Patil, D Chandam, A Mulik, S Jagdale, P Patil, and M Deshmukh, **Journal of Saudi Chemical Society** (Accepted), 2014.
  
4. Synthesis and Crystal Structure of Ethyl-1-(4-methyl phenyl)-4-(4-methyl phenyl amino)-2, 6-bis (4-nitro phenyl)-1, 2, 5, 6-tetrahydropyridine-3-carboxylate S. A. Anthal, D. R. Patil , R Kant and M .B. Deshmukh , **European Chemical Bulletin**, **3** (7), 699-702, 2014.
  
5. Synthesis and X-Ray Crystal Structure of Two Acridinedione Derivatives Dalbir Kour, D. R. Patil, Vivek K. Gupta, and Rajni Kant and M. B. Deshmukh, **Journal of Crystallography**, 2014.
  
6. Synthesis and x-ray structure of 2-amino-4-(4-fluorophenyl)-7, 7-dimethyl-5-oxo-5, 6, 7, 8-tetrahydro-4h-chromene-3-carbonitrile D. Kour, D. R. Patil, VK Gupta, M. B. Deshmukh, and R. Kant **European Chemical Bulletin**, **3** (3), 224-226, 2014.
  
7. In-silico, in-vitro antibacterial activity and toxicity profile of new quinoline derivatives PP Sambavekar, MM Aitawade, D. R. Patil, G. B. Kolekar, M. B. Deshmukh, P.V.Anbhule **Indian Journal of Chemistry**, **52B**, 1521-1526,2014.
  
8. Eco-friendly and economic method for Knoevenagel condensation by employing natural catalyst M.B Deshmukh, SD Jadhav S Patil, **Indian Journal of Chemistry, Section B** **52** (8), 1172-1175,2014.
  
9. Calcined eggshell (CES): An efficient natural catalyst for Knoevenagel condensation under aqueous condition S.S. Patil, S. D. JADHAV, M. B. Deshmukh, **Journal of Chemical Sciences** **125** (4), 851-857, 2013.
  
10. Synthesis and X-ray Crystal Structure OF 3, 3, 6, 6-Tetramethyl-9-(3, 4-Dimethylphenyl)-3, 4, 6, 7, 9, 10-Hexahydroacridine-1, 8-Dione D Kour, DR Patil, VK Gupta, R Kant and Madhukar B. Deshmukh, **European Chemical Bulletin**, **3** (2) ,173-175, (2014-2013).
  
11. Synthesis and Crystal Structure of 2-amino-7, 7-dimethyl-4-(4-nitrophenyl)-5-oxo-1, 4, 5, 6, 7, 8-hexahydroquinoline-3-carbonitrile R Kant, VK Gupta, S Anthal, P Sharma, DR Patil, AG Mulik and M.B. Deshmukh, **European Chemical Bulletin**, **3** (3), 296-299, 2014.
  
12. 9-(4-Hydroxy-3-methoxyphenyl) - 3, 3, 6, 6-tetramethyl - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10-decahydroacridine-1,8-dione Kant, R., Gupta, V.K., Kapoor, K., Patil, D.R., Patil, P.P., and M.B. Deshmukh, **Acta Crystallographica Section E: Structure Reports Online**, **69** (1) ,100, 2013.
  
13. (2Z)-3-(2,4-Dichlorophenyl)-3-hydroxy-N-phenylprop-2-enethioamide Dalbir Kour, Kuldeep Singh, Mayur M. Aitawade, ,Vivek K. Gupta Rajni Kanta and, Madhukar B. Deshmukh, Prashant V. Anbhule **Acta Cryst.** **E69**, 01173–01174, 2013.

14. An Efficient One-Pot Multicomponent Synthesis of Dihydropyridines by using Succinic Acid as Mild Organocatalyst M. B. Deshmukh P.B. Pawar, S.D. Jadhav, S. Patil, **Asian journal of chemistry** **25** (17), 9442-9446, 2013.

15. Dissipation kinetics, safety evaluation, and assessment of pre-harvest interval (PHI) and processing factor for kresoxim & methyl residues in grape, Madhukar B. Deshmukh ,Rupali Sabale & T. P. Ahammed Shabeer & Sagar C. Utture Manjusha R. Jadhav , Dasharath P. Oulkar & Pandurang G. Adsule & Kaushik Banerjee ,**Environmental Monitoring Assessment**, **186**, 2369–2374, 2014.

16. Proficient synthesis of quinoxaline and phthalazinetrione derivatives using [C8dabco]Br ionic liquid as catalyst in aqueous media Abhijeet Mulik , Dattatraya Chandam , Prasad Patil , Dayanand Patil ,Suryabala Jagdale and Madhukar B. Deshmukh, **Journal of Molecular Liquids**,**179**,104–109,2013.

17. 9-(3-Fluorophenyl)-3,3,6,6-tetramethyl-1,2,3,4,5,6,7,8,9, 10-decahydroacridine-1,8-dione Kant, R., Gupta, V.K., Kapoor, K.,Patil, D.R., Jagadale, S.D. and Deshmukh, M.B., **Acta Crystallographica Section E: Structure Reports Online**, **201369** (1), 69 (1) ,2013.

18. Synthesis and X-ray Structure of 2-amino-4-(4-fluorophenyl)-7, 7-dimethyl-5-oxo-5, 6, 7, 8-tetrahydro-4h-chromene-3-carbonitrile D. Kour, D. R. Patil, V. K. ,Gupta, R. Kant and M. B. Deshmukh, **European Chemical Bulletin**, **3** (3), 224-226,2014. .

19. Synthesis of Novel Dibenzo-18-crown -6 ether functionalized benzimidazole and its applications in colorimetric Recognition to Hg<sup>+2</sup> and as anti-fungal agent, S.D Jagadale, A. D. Sawant, PP Patil, DR Patil, AG Mulik, D R Chandam, SA Sankpal and M. B. Deshmukh, **J.Heterocyclic Chemistry**, 2013 (Inpress).

20. Synthesis of some novel quinine diimine Derivatives of benzo-15-crown-5 for application in Hg<sup>+</sup> recognition S.D Jagadale, A.D.Sawant, P. P. Patil, D. R. Patil, A. G. Mulik, D. R. Chandam, S. A. Sankpal and M. B. Deshmukh, **Luminescence**, 2014( In press).

21. Synthesis and Crystal Structure of Ethyl-1-(4-methyl phenyl)-4-(4-methyl phenyl amino)-2, 6-bis (4-nitro phenyl)-1, 2, 5, 6-tetrahydropyridine-3-carboxylate. S. A. Anthal, D. R. Patil, M. B. Deshmukh, R. Kant, **European Chemical Bulletin** **3** (7), 699-702, 2014.

22. Proficient synthesis of quinoxaline and phthalazinone derivatives using [C8dabco]Br ionic liquid as catalyst in aqueous media ,Abhijeet Mulik, Dattatraya Chandam, Prasad Patil, Dayanand Patil, Suryabala Jagdale and Madhukar Deshmukh, **Journal of Molecular Liquid**, **179**, 104-109(2013).

23. Synthesis of novel dibenzo-18-crown 6 ether functionalized Benzimidazole and its applications in Colorimetric Recognition to Hg<sup>++</sup> and as anti-fungal agents, S. D. Jagdale, A. D.Sawant, P. P. Patil, D. R. Patil, A. G. Mlik, D. R. Chandam ,S. A. Sankpal and M. B. Deshmukh, **J.Heterocyclic Chemistry**, 2013( In press).

24. 2-Amino-7,7-dimethyl-5-oxo-4-[3-(trifluoromethyl)phenyl]-1, 4, 5, 6, 7, 8 – hexahydroquinoline – 3 - carbonitrile, Rajni Kant, Vivek K. Gupta, Kamini Kapoor, D. R. Patil, A.G. Mulik and Madhukar B. Deshmukh, **Acta Cryst. E69**, 105 (2013).
25. 9-(4-Hydroxy-3-methoxyphenyl)-3,3,6,6-tetramethyl 1, 2, 3, 4, 5, 6, 7, 8, 9, 10-decahydroacridine-1,8-dione, Rajni Kant, Kamini Kapoor, D. R. Patil, P. P. Patil and Madhukar B. Deshmukh, **Acta Cryst. E69**, 100(2013).
26. (2Z)-3-(2,4-Dichlorophenyl)-3-hydroxy-n-phenylprop-2-enethioamide, Dalbir Kour, Kuldeep Singh, Mayur M. Aitwade, Madhukar Deshmukh, Prashant Anbhule, Vivek K. Gupta and Rajni Kant, and Madhukar B. Deshmukh, **Acta Cryst. E69**, 1173-1174(2013).
27. 9-(3,4-Dimethoxyphenyl)-3,3,6,6-tetramethyl-1,2,3,4,5,6,7,8,9,10-decahydroacridine-1,8-dione, Rajni Kant, Vivek K. Gupta, Kamini Kapoor, D. R. Patil, S. D. Jagdale and Madhukar B. Deshmukh, **Acta Cryst. E69**, 297-298 (2013).
28. Ethyl 2-[3-[(6-chloropyridin-3-yl)methyl]-2-(nitroimino)imidazolidin-1-yl]acetate, Kapoor, Kamini; Deshmukh, Madhukar B.; Shripanavar, Chetan S.; Gupta, Vivek K.; Kant, Rajni, **Acta Crystallographica, Section E: Structure Reports Online, E68(4)**, (2012), 1987.
29. An efficient synthesis of bis(indolyl) methanes under solvent free condition using silica supported chloroacetic acid as reusable catalyst, Chandam, D. R.; Deshmukh, M. B.; Mulik, A. G.; Patil, P. P.; Patil, D. R.; Jagdale, S. D.; Anbhule, P. V.; Sankpal S. A., **Pharmacia Lettre 4(1)**, 54-60(2012).
30. Crown ether complex cation like ionic liquids: synthesis and catalytic applications in organic reaction, Jagdale, S. D.; Deshmukh, M. B.; Mulik, A. G.; Chandam, D. R.; Patil, P. P.; Patil, D. R.; Sankpal, S. A. **Pharma Chemica 4(1)**, 202-207, (2012).
31. Green approach for Knoevenagel condensation of aromatic aldehydes with active methylene group, Deshmukh, M. B.; Patil, Suresh S.; Jadhav, S. D.; Pawar, P. B. **Synthetic Communications 42(8)**, 1177-1183, (2012).
32. Synthesis and insecticidal activity of some nicotinic acid derivatives, Full Text, Deshmukh, Madhukar B.; Patil, Sangram H.; Shripanavar, Chetan S., **Journal of Chemical and Pharmaceutical Research 4(1)**, (2012), 326-332.
33. Microwave-assisted cyclocondensation for the synthesis of 3-aryl-2-thioquinazolin-4(3H)-ones, Patil, Suresh; Jadhav, S. D.; Shejwal, R. V.; Deshmukh, M. B. **Asian Journal of Chemistry 24(4)**, (2012).
34. 1-[(6-Chloro-7-pyridin-3-yl)methyl]imidazolidin-2-iminium chloride, Kant, Rajni; Gupta, Vivek K.; Kapoor, Kamini; Deshmukh, Madhukar B.; Shripanavar, Chetan S., **Acta Crystallographica, Section E: Structure Reports Online, E68(1)**, 147, (2012).

35. 2E -3-(Dimethylamino)-1-(4-fluorophenyl)prop-2-en-1-one Rajni Kant, Vivek K. Gupta, Kamini Kapoor, Madhukar B. Deshmukh, D. R. Patil and P. V. Anbhule, **Acta Crystallographica, Section E: Structure Reports Online E68(1)**, 3110, (2012).
36. Methyl (2E )-2-cyano-3-(dimethylamino)prop-2-enoate Rajni Kant, Vivek K. Gupta, Kamini Kapoor, D. R. Patil, D. K. Salunkhe and Madhukar B. Deshmukh, **Acta Crystallographica, Section E: Structure Reports Online E68(1)**, 3121, (2012).
37. 3-Methoxy 2-[2-([6-trifluoromethyl]-pyridin-2-yl)oxy}methyl]phenyl]prop-2-enoic acid Rajni Kant, Vivek K. Gupta, Kamini Kapoor, Chetan Shripanavar , Madhukar B. Deshmukh and Kaushik Banerjee ,**Acta Crystallographica, Section E: Structure Reports Online E68**, 3163, (2012).
38. Synthesis of N'-Carbonyl-N-[(6-chloropyridin-3-yl) methyl] ethanimidamide(2011) Deshmukh, M.B. Shripanavar, C. , **Journal of Chemical and Pharmaceutical Research 3(5)**, 636-637, 2011.
39. An Efficient, Greener synthesis of 2-Aryl-1-Arylmethyl-1-H Benzimidazoles using Polystyrene Sulfonic acid as a Catalyst. Prasad P. Patil, Madhukar B. Deshmukh, Abhijeet G. Mulik, Dattatraya R. Chandam, Dayanand R. Patil, Suryabala D. Jagdale, Prashant V. Anbhule, Dadasaheb K. Salunkhe, Sandeep A. Sankpal., **Der Pharma Chemica, Vol 3 (6)**, 599-605, 2011.
40. Synthesis of 1-[(6-chloropyridin-3-yl)methyl]imidazolidin-2-imine Madhukar B. Deshmukh, Prasad P. Patil, Chetan S. Shripanavar, **Archives of Applied Science Research, Vol. 3(4)**, 218-221, (2011).
41. Single Crystal structure of 8-[(6-Chloropyridin-3-yl)methyl]-2,6,7,8-Tetrahydroimidazo [2,1c][1,2,4]triazin 3(4H)-one Kapoor K., Gupta, V. K. Rajnikant, Deshmukh M. B., and C. S. Sripanavar, **X-ray Structure Analysis Online, 27**, 55-56, (2011).
42. Phenolic composition and antioxidant activity of Indian Wines, Deshmukh, M., Patil, S., Banerjee, K., Oulkar, D., **Le Bulletin De L'OIV, 84**, 517-541 (2011).
43. Efficient method for the synthesis of 3-pyridyl methanol from nicotinic acid using sodium borohydride methanol system Deshmukh, M., Patil, S., Banerjee, K., Oulkar, D., Shripanavar, C, **Der Pharmacia Lettre, 3 (4)**, pp. 264-266, (2011).
44. Silica sulfuric acid: Recyclable and efficient catalyst for the 2-aryl benzothiazole Patil, D.R., Salunkhe, S.M., Sambavekar, P.P., Deshmukh, M.B., Kolekar, G.B., Anbhule, P. V., **Der Pharma Chemica, 3 (1)**, pp. 189-193, (2011).
45. Eco-friendly synthesis of benzoxazines and benzothiazines at ambient temperature without catalyst and their anti-bacterial and anti-fungal activity Patil, D.R., Salunkhe, S.M., Aitawade, M. M., Deshmukh, M.B., Kolekar, G.B., Anbhule, P.V., **Der Pharma Chemica, 3 (1)**, pp. 207-214(2011).
46. Simple synthesis of tri-substituted quinoline through trans-esterification Patil, D. R., Deshmukh, M. B., Salunkhe, S. M., Anbhule, P. V., **Journal of Heterocyclic Chemistry, 48 (6)**, pp. 1342-1346 ( 2011).

47. An efficient synthesis of 2,3,4-trisubstituted quinolines through alkylation-cyclization at an ambient temperature, Patil, D. R., Salunkhe, S. M., Anbhule, P. V. M. B. Deshmukh, **Journal of Heterocyclic Chemistry**, **48** (6), pp. 1414-1418 (2011).
48. Natural acid catalysed multicomponent reactions as a green approach S. S. Patil, S. D. Jadhav & M. B. Deshmukh, **Archives of applied science research**, **3**(1), 203-208, (2011).
49. Pineapple juice as a natural catalyst for Biginelli reaction S.S. Patil, S.D. Jadhav, & M.B. Deshmukh, **International J. Organic Chemistry**, **1**, 125-131 (2011).
50. Comparative study of Bioelectricity Generation along with treatment of different sources of wastes Patil V. D., Partil V. D., & Deshmukh M. B., **International J. of Chemical Science & Application** **2**(2), 162-1168, (2011).
51. Synthesis of N'-carbamoyl-N-[(6-chloropyridin-3-yl) methyl] ethanimidamide Deshmukh, M. & Shripanavar, C., **Journal of Chemical and Pharmaceutical Research**, **3** (5), pp. 636-637, (2011).
52. Synthesis, Optical and X-ray diffraction study of transitional metal complexes of Cu (II) containing naphthaquinone dibenzo - 18 - crown - 6, Alsundkar K. N., Deshmukh M. B., Salunkhe D. K. and Sankpal S. A., **Chemica Sinica**, **2**(2), 118-124, (2011).
53. Phenolic composition and antioxidant activity of Indian wines, Patil, Sangram H.; Banerjee, Kaushik; Oulkar, Dasharath P.; Jogaiah, Satisha; Sharma, Ajay Kumar; Dasgupta, Soma; Adsule, Pandurang G.; Deshmukh, Madhukar B., **Bulletin de l'O.I.V.**, **84**, 515, (2011).
54. Development and validation of a simple analytical method for the determination of 2,4,6-trichloro anisole in wine by GC-MS, **Food Chemistry**, **124**, 1734-40, 2011.
55. Cynogen bromide and Ethyl acetate in Heterocyclization: Novel Synthesis of Tetracyclic Derivatives of 3-Aryl Quinazolinone S. S. Patil and M. B. Deshmukh, **J. Heterocyclic Chem.** **47**, 1144, (2010).
56. Gallium (III) chloride catalysed synthesis of polyhydroquinoline at ambient temperature and photoluminescence study of ethyl 1,4,7,8-tetrahydro-2,7,7-trimethyl-4-(4-chlorophenyl)-5(6H) (-oxoquinoline -3-carboxylate. D.R. Patil, M.B. Deshmukh, S. M. Salunkhe, D. K. Salunkhe, G. B. Kolekar and P. V. Anbhule, **Der Pharma Chemica**, **2**(6), 342-489, (2010).
57. Synthesis and X-ray Crystallographic analysis of 2-(2,4-dimethyl pyrrolyl)benzothiazole, Rajnikant, Sabeta Kohli and M.B. Deshmukh, **J. Chemical Crystallography**, **1**, 4 (2010).
58. An Efficient, Uncatalyzed, and Rapid Synthesis of Thiazoles and Aminothiazoles Under Microwave Irradiation and Investigation of Their Biological Activity, Sudhakar Gaikwad, A. A. Patil and M. B. Deshmukh, **Phosphorus, Sulfur, and Silicon**, **185**, 103-109, (2010).
59. Synthesis and X-ray structure of 1-acetoxy 4-methylphenyl methyl acetate Rajnikant, Sarmal L., Kamni, Dinesh and M.B. Deshmukh, **J. Chemical Crystallography**, **39**, 835-37, (2009).

- 60.** Multi residue analysis of 83 pesticides and 12 dioxin like polychlorinated biphenyls in wine by gas chromatography-time of flight mass spectrometry, Patil S.H., Banerjee K., Dasgupta, S. Oulkar D. P., Patil S. B. Jadhav M. R. Sawant R. H. and Deshmukh M. B., **Journal of Chromatography, A.1216**,2307-09(2009).
- 61.** Degradation kinetics and safety evaluation of buprofezin residues in grape and Three Different soils of India. Dasharath P Oulkar, a Kaushik Banerjee, a\* Sangram H. Patil, a Ajay K Upadhyay, a Praveen B Taware, a Madhukar B. Deshmukh and Pandurang G. Adsule, **Pest Manag Sci.**, **64**, 183-88( 2008 ).
- 62.** A Novel one step synthesis of 2-amino-5-cyano-5-hydroxy 4-aryl pyrimidines & their anti-bacterial activity, P.V. Anbhule, M.B. Deshmukh, S.M. Salunkhe and D.R. Patil, **European Journal of Chemistry**, **44(6)**, 2651-54, (2009).
- 63.** A remarkable catalytic activity of [Cu(NCMe)<sub>2</sub>(PPh<sub>3</sub>)<sub>2</sub>]BF<sub>4</sub> in conjugate addition of organomanganese reagents to  $\alpha,\beta$ -unsaturated ester, enones and allyl chloride, M.B. Deshmukh, Sunil Jadhav, P.V. Anbhule, A.R. Mali and A.W. Suryawanshi, **Journal of Chemical Research**, 248–250,(2006).
- 64.** Molecular and Crystal structure of 4-ethoxycarbonyloxy-1-oxo-1H- phthalazine-2-carboxylic acid ethyl ester, Rajnikant, Dinesh, Kamni and M. B. Deshmukh, **Crystallography reports (Russia)**, **51(4)**, 615-618, (2006).
- 65.** 2, 3-Diphenylquinoxaline-Structure Reports, Rajnikant, Dinesh, Madhukar Baburao Deshmukh, A.R.Mali, Sunil Jadhav and Priyanka Kanwal., **Acta Cryst, E62(UK)** 2356-2357, (2006).
- 66.** Alkylation of unsaturated and Allylic Bisacetate with Organomanganese Reagents in presence of Tetrakis Acetonitrile Copper (I) Tetrafluoroborate, M.B. Deshmukh, Sunil Jadhav, A.R.Mali, A.W.Suryawanshi, P.V. Anbhule, S.S. Jagtap and S. A. Deshmukh. **Synthetic Communication**, **35**, 1-5 (2005).
- 67.** Synthesis and X-ray structure analysis of Benzoic acid 1-(6-methyl 2,4-dioxo-3,4 -dihydro-2H-pyran-3-yl) -eth-(E)ylidene)hydrazide with a water molecule, Rajnikant, Dinesh, Kamni, M.B. Deshmukh, S. R. Dhongade-Desai & Priyanka Kanwal, **J. Chemical Crystallography(USA)**, **35**, 357-360 (2005).
- 68.** Crystallographic Investigation of Benzothiazol-2-yl hydrazine Rajnikant, Dinesh, Kamni, M. B. Deshmukh, S. S. Jagtap and S. R. Desai, **J. Chemical Crystallography(USA)**, **35**, 293-296, (2005).
- 69.** Synthesis and structure analysis of 2(2-propanoylthio)3-(o-methylphenyl) quinazol-4(3H)one. M.B. Deshmukh, Rajnikant, Dinesh mausami, S. S. Patil and ashu sawhney, **Journal of Chemical Crystallography**, **34**, 693-98, (2004)
- 70.** Crystallographic Investigation of 1,4-Benzothiazine-2(1H)one and 3-Methyl-

1,4- Benzothiazine-2(1H) ones. Rajnikant, Gupta V. K., Dinesh, Kumar A., Deshmukh M. B., Salunkhe D. K., Mulik A. R. and Vergese B., **Crystallographic Reports**, **49(3)**,427-429, (2004).

**71.** New route to synthesis and QSAR study of 1,2,4-Aryl substituted Triazoles, M. B. Deshmukh, A. W. Suryawanshi, and A. R. Mali, **Synthetic Communications**, **34(14)**, 1-4 (2004).

**72.** Evaluation of Insecticides for the control of white woolly sugarcane aphid V. D. Shinde, S. S. Magar, S. S. Patil and M. B. Deshmukh, **Pestology**, **28(4)**, 25-26, (2003).

**73.** Crystallographic Investigation of 1,4-Benzothiazine-2(1H)one and 3-Methyl-1,4- Benzothiazine-2(1H)ones. ajnikant, Gupta V. K., Dinesh, Kumar A., Deshmukh M. B., Salunkhe D. K., Mulik A. R. and Vergese B., **Crystallographic Reports**, **49(3)**, 427-429 (2004).

**74.** Crystal structure of 2,6- dimethyl quinoline-4 (1H) one, M.B.Deshmukh and S. R. Dhogade, **Acta Crystallographica**, **E 39**, 1768-69 (2003).

**75.** Crystal structure analysis of 4-phenylquinolin-2(1H)one. Rajnikant, Gupta V. K., Deshmukh M. B., Vergase B. and Dinesh., **Crystallographic Reports, Russia** **47(3)**, 449-51 (2002).

**76.** Crystallographic Investigation of 1,4-Benzothiazine-2(1H)one and 3-Methyl-1,4-Benzothiazine - 2(1H) ones. Rajnikant, Gupta V. K., Dinesh, Kumar A., Deshmukh M. B., Salunkhe D. K., Mulik A. R. and Vergese B., **Crystallographic Reports, Russia** (2001).

**77.** Synthesis with Nitriles,(XCV(1):Deamination of cytosine Derivatives Deshmukh M.B., **Mittelbach and Junek H., Montash Chem.** **126**, 91-97(1995).

**78.** Structure Analysis of 6-methyl-3,4-dihydro-3-(p-methylphenyl)-4-oxo-2-quinazolinylthiopropionate. Rajnikant, Gupta V. K., Deshmukh M. B., Vergase B. and Dinesh, **Crystal Research and Technology, Germany** **36(2)**,1451-56( (2001).

**79.** A short synthesis of 5a,6, 7,8-tetrahydrodibenzofurans. Deshmukh M. B., Kharade D. R. and Smt. Shirke S. D., **Montash Chem.** **125**, 971-976,(1994).

**80.** Selective aziridination of olefinic esters. Deshmukh M. B. and Smt. Chavan P. B., **Montash Chem.** **125**, 743-746, (1994).

**81.** Kinetic analysis of consecutive first order reaction :oxidation of arylhydrazides by alkyline hexacyanoferrate (III). Deshmukh M. B. and Pawar P. K. Afinidad, **Revista De Quimica Teorica Y Aplicada, Afinidad**, **XLVII**, 113-115, (1990).

**82.** Synthesis X-ray structure and N-H---O interactions in 1,3-diphenyl urea.Rajnikant, Dinesh, M. B. Deshmukh and Kamni, **Bull. Mater. Sci.**, **29(3)**, 239-242, (2006).

**Publications in National journals:105**

1. In-silico, in-vitro antibacterial activity and toxicity profile of new quinoline derivatives  
PP Sambavekar, MM Aitawade, DR Patil, GB Kolekar, MB Deshmukh, **Indian Journal of Chemistry** **52**, 1521-1526, (2013).
2. An Efficient One-Pot Multicomponent Synthesis of Dihydropyridines by using Succinic Acid as Mild Organocatalyst Patil, P. B. Pawar, S. D. Jadhav, M. B. Deshmukh, **ASIAN JOURNAL OF CHEMISTRY** **25** (17), 9442-9446, (2013).
3. Eco-friendly and economic method for Knoevenagel condensation by employing natural catalyst Patil, S. D. Jadhav, M. B. Deshmukh, **Indian Journal of Chemistry, Section B** **52** (8), 1172-1175, (2013).
4. Synthesis and antimicrobial activities of new oxime carbamates of 3-aryl-2-thioquinazolin-4(3H)-one, S. S. Patil, S.D. Jadhav and M. B. Deshmukh, **J. Chem. Sci. Indian Academy of Sciences**, Vol. **124**, No. 5, September 2012, pp. 1043–1048, (2012).
5. Synthesis and insecticidal activity of some nicotinic acid derivatives , Deshmukh, Madhukar B.; Patil, Sangram H.; Shripanavar, Chetan S., **Journal of Chemical and Pharmaceutical Research** **4**(1), 326-332, (2012).
6. Comparative study of bioelectricity generation along with the treatment of different sources of wastewater Patil, V. D.; Patil, D. B.; Deshmukh, M. B.; Pawar, S. H. **International Journal of Chemical Sciences and Applications** **2**(2), 162-168, (2011).
7. Natural acid catalysed multicomponent reactions as a green approach  
S. D. Jadhav, S. S. Pati and M. B. Deshmukh , **Archives of applied science research** **3**(1), 203-208, (2011).
8. Pineapple juice as a natural catalyst for Biginelli reaction, S. D. Jadhav, S. S. Pati and M. B. Deshmukh, **International J.Organic Chemistry**, **1**, 125-131(2011).
9. Synthesis of some new 2-substituted quinazoline derivatives. S.D.Jadhav, S.S.Pati and M. B. Deshmukh, **J. Indian Chem. Soc.**, **88**, 451-55(2011).
10. Synthesis of N'-Carbamoyl-N-[(6-chloropyridin-3-yl) methyl] ethanimidamide  
Madhukar Deshmukh and Chetan Shripanavar, **Chem. Pharm. Res.**, **3**(5), 636-637,2011.
11. Effect of bacterial communities on the performance of microbial fuel cell formed with dairy waste, V. D. Patil, S. H. Pawar and M. B. Deshmukh ,**International Journal of Chemical Sciences and Applications**, **2**(1),108-115 ,2011.
12. Synthesis of some new Quinoline derivatives,M. B. Deshmukh , Suresh Patil, S. D. Jadhav and S.Y.Mane, **J Indian Chem.Soc.**, **88**,1-5(2011).
13. Synthesis and anti-microbial screening of some new N3-substituted derivatives of quinazolin-4(3H)one, **J.Chem. Pharma.Res.** **2**(4), 623-28, (2010).



14. Natural acid catalyzed multi component reaction as a green approach, suresh Patil, S.D.Jadhav and M.B.Deshmukh , **Archive of applied Science research**,**3(1)**,203-208, (2011).
15. Synthesis of some new 2-substituted Quinazoline derivatives, M.B.Deshmukh , Suresh Patil, S.D.Jadhav and S.Y.Mane, **J Indian Chem.Soc.**, **88**,451-551, (2011) .
16. Synthesis and anti-microbial screening of some new N3-substituted derivatives of quinazolin-4(3H) one, M. B. Deshmukh, Suresh Patil, S. D. Jadhav and S. Y. Mane, **J.Chem. Pharma.Res.2 (4)**, 623-28(2010).
17. One step synthesis of 6-Amino-5-cyano-4-phenyl-2-mercapto pyrimidine using phosphorus pentoxide, D. R. Patil, S. M. Salunkhe, M. B. Deshmukhe and P.V.Anbhule, **The open catalysis Journal 3**, 83-86(2010).
18. Effect of bacterial communities on the performance of microbial fuel cell formed with dairy waste V.D., Patl, .D.B.Patl, M.B.Deshmukh and S. H. Pawar ,**International Journal of Chemical Science and Applications**, **2(1)**,108-115(2011).
19. Microwave assisted synthesis of some new 2-substituted 1,4-benzothiazine derivatives, M. B. Deshmukh, S. M. Salunkhe, P. V. Anbhule and D. R. Patil, **J.Indian Chem.Soc.**,**87**, 1227-1230 (2010).
20. Microwave assisted synthesis of 2,3,4-trisubstituted 1,2-dihydropyrimido- [1,2- a] benzimidazole, M. B. Deshmukh, A.W. Suryavanshi, S. S. Jagtap and S. A. Deshmukh **J.Indian Chem. Soc.**,**86**,302-305, (2009).
21. Synthesis and Anti-microbial activity of pyridopyrazole and pyrazolo-[3,4-d] dihydrothiazole M B Deshmukh\*, S.A.Deshmukh, ,S.S.Jagtap, S.D.Jadhav and P V Anbhule , **J.Indian Chemical Soc.** **86**, 613-16 (2009).
22. Synthesis, X-ray diffraction and optical spectral study of Benzo-18-crown -6 containing monoazodyes.M B Deshmukh\*, K N Alasundkar, S M Salunkhe, D K Salunkhe, S .A .Sankpal, D R Patil & P V Anbhule, **Indian J. Chemistry**, **48B(5)**,737-740 (2009).
23. Microwave assisted synthesis of 2,4-disubstituted pyrimido-[1,2-a]benzimidazole, M. B. Deshmukh, A.W.Suryawanshi, S. S. Jagtap and S. A. Deshmukh, **J.Indian Chem. Soc.**, **85**, 330-332, (2008).
24. A Novel and environmental friendly, one step synthesis of 2,6-diamino-4-phenyl pyrimidine carbonitrile using potassium carbonate in water, K. N., M. B. Deshmukh\*, P. V. Anbhule ,S. D. Jadhav,S. S. Jagtap, D. R. Patil,and S. A. Sankpal. Alasundkar, S. M. Salunkhe, D. R. Patil & S. A. Sankpal, **Indian J.Chem.Sec-47B**, 792-95, (2008).
25. Synthesis of dibenzo- 18 -crown -6 ether containing pyrimidine derivatives M. B. Deshmukh\*, K. N. Alasundkar, S. M. Salunkhe, D. K. Salunkhe, S .A .Sankpal, D. R. Patil & P. V. Anbhule, **Indian J.Chemistry**, **47 B**, 1915-1917, (2008).

26. Synthesis of aminoacid derivatives of 2-mercaptobenzothiazole M B Deshmukh\*, P V Anbhule , S. A. Deshmukh, S. D. Jadhav, S. S. Jagtap and P. V. Anbhule, **J.Indian Chem. Soc., 85(3)**,290-92, (2008).
27. An efficient, simple, one pot synthesis of dihydropyrimidines 2-(1H) ones using Phosphrous pentoxide, M. B. Deshmukh, P.V.Anbhule ,A. R. Mali S. D. Jadhav and A . W. Suryawanshi, **Indian J.Chem. , 46B**, 1545-48, 2007.
28. Synthesis of some 4- substituted hydrazinotetrazolo [1,5-a] quinoxaline, M. B. Deshmukh, A. R. Mali, S. D. Jadhav and A. W. Suryawanshi, **Indian J. Chem., 46B**, 1211-1213, 2007.
29. Copper-catalyzed substitution reactions of acylal with organomanganese reagents, M. B. Deshmukh , S. D. Jadhav and S. V. Kadam, **Indian J. Chem. Sec. , 46 B**, 989-994 ( 2007).
30. Synthesis and Biological activity of some benzothiazolidinones, M B Deshmukh, S. S. Jagtap, S. A. Deshmukh, S. D. Jadhav and A. W. Suryawanshi, **J. Indian Chem. Soc., 84**, 1-3( 2007).
31. Synthesis and study of biological activity of some new 1,4-benzothiazines, M. B. Deshmukh, S A Deshmukh, S S Jagtap and A R Mulik, **Indian Journal of Chemistry, 46 B**, 852-859 (2007).
32. Synthesis of some 4- substituted hydrazinotetrazolo [1,5-a]quinoxalines, B. Deshmukh, A. R. Mali, S. D. Jadhav and A. W. Suryawanshi, **Indian J. Chem., 46B**,1211-13 (2007).
33. Copper-catalyzed substitution reactions of acylal with organomanganese reagents. M. B. Deshmukh and S. D. Jadhav, **Indian J. Chem. Sec. , 46 B**, 989-994( 2007).
34. Synthesis and Biological activity of some benzothiazolidinones,M B Deshmukh, S S Jagtap, S. A. Deshmukh, S. D. Jadhav and A. W. Suryawanshi, **J. Indian Chem. Soc., 84**, 1-3, (2007).
35. Synthesis and study of biological activity of some new 1,4-benzothiazines M B Deshmukh, S. A. Deshmukh, S. S. Jagtap & A. R. Mulik, **Indian Journal of Chemistry, 46 B**, 1-7, (2007).
36. Study of Antimicrobial and Antifeedant activity of the plant *Ichinocarpus frutescens* Maner M. I. and M. B. Deshmukh, **Journal of Microbial World, Vol-9**,No.1,(2007).
37. Antimicrobial and Antifeedant screening of the plant, *Vernonia anthelmintica* Willid, Maner M. I. and M. B. Deshmukh, **Journal of Microbial World, Vol-9**, No.1,(2007).
38. Some Biochemical changes in the leaves of *Saccharum officinarum* L. due to growth of *Capnodium* spp. Annals , Maner M. I.,Deshmukh M. B. and Patil A. S., **Ann. Plant Physiology, Vol.21**,No.1,134-135,(2007).

39. Composition in the leaves of *Saccharum officinarum* L.covered with *Capnodium* spp. **Advances in Plant Science, Vol.2,**( 2007) .
40. Synthesis, crystal structure and study Of X-H....A interaction in N,N –bis-(4- methoxy benzylidene )-hydrazine. Rajnikant, Dinesh and M. B. Deshmukh, **Indian J.Pure and Applied Physics, 44,** 602-05, (2006).
41. Solvent free accelerated synthesis of 2-hydrazinobenzothiazole derivatives using Microwave, M. B. Deshmukh, S. S. Jagtap & S. A. Deshmukh, **J. Indian Chem. Soc., 83,** 1-3, (2006).
42. Spectroscopic studies of molecular interactions involving aniline and substituted aniline donors and chloronil as an electron acceptor in a binary solvent mixtures D. B. Patil, V. D. Patil, S. R. Pujari and M. B.Deshmukh, **J. Indian Chem. Soc.,82 ,**530-533 (2005).
43. Synthesis a,X-ray diffraction study and biological activity of 7-hydroxy-4-methyl quinolin-2(1H)one, M. B.Deshmukh, Savita Dhongade-Desai & S. S.Chavan, **Indian Journal of Chemistry,44B,**1659-62, (2005).
44. Synthesis and characterization of two derivatives of 2-mercapto-3-m- tolyl-3H-quinazolin-4-one, M. B. Deshmukh, Savita Dhongade-Desai, and S. S. Chavan, **Indian J. Phys., 79(3),**169, (2005).
45. X-ray analysis of 2-Anilino-benzo (2,3-b)cyclopentane1,3-dione M.B.Deshmukh, Rajnikant, Dinesh,Mausami and Anshu Sawney, **Bull Mat. Sci.,27(4),**337-40, (2004).
46. Spectroscopic studies of molecular interactions of involving aniline and substituted aniline donor and chloranil electron acceptor in a binary solvent mixtures. M. B. Deshmukh, D. B. Patil, V. D. Patil and S. R. Pujari , **Indian Chem. Soc., 82,** 124, (2005).
47. Structure analysis of 2-Cyano-3-N,N-dimethyl acrylate, Rajnikant, V. K. Gupta, Dinesh, Mausami, M. B. Deshmukh, S. R. Dhongade (Desai), D. K. Salunkhe, **Asian J .Physics 12(10),**93-97, (2003).
48. Anti-microbial and anti-feedant Activity of the extract of the plant *Durenta repens*, Patil V. J., Deshmukh M. B. and Maner M. S. **Proc. Of SAARCL Conference on Biotechnology in Agriculture, Industry and Environment,** 64-66, (2001). Publisher: Microbiologist Sociest, Karad).
49. Synthesis of some N-substituted 1,4-Benzothiazinones, Deshmukh M. B. and Mulik A. R. **J. Indian Chem. Soc., 78,** 152-153, (2001).
50. Synthesis of some new N1-substituted 4-methyl-quinolin-2(1H)one derivatives, Deshmukh M. B.,Shelar M. A. and Mulik A. R.Indian, **J. Heterocyclic Chem., 13,** 13-16, (2000).
51. Synthesis of new 1-(phthalimido)substituted aziridine 2-carboxylates, Deshmukh M. B., Smt. Chavan P. B. and Mulik A.R., **J. Indian Chem. Soc., 76,** 459-460, (1999).

52. Efficient method for deamination of aminopyrimidines, Deshmukh M. B. and Shelar M. A., **The Nat. Acad. Science Letters**, **21(5&6)**, 247-249, (1998).
53. Synthesis of some new N1-substituted 6-methyl-4-phenyl, quinolin-2(1H) ones, Deshmukh M. B. and Shelar M. A., **J. Indian Chem. Soc.**, **75**, 29-536, (1998).
54. Synthesis of some new N1- substituted 6/7-chloro-4-phenyl-2-quinazolone derivatives, Deshmukh M. B. and Shelar M. A., **Indian J. Heterocyclic Chem.**, **7**, 243-244, (1998).
55. Synthesis of some new pyrimidine and pyridopyrimidine derivatives, Deshmukh M. B., Shelar M. A., Mittelbach M. and Junek H., **Indian J. Chem.**, **38B**, 491-493, (1998).
56. Synthesis of some new 2-thioxoquinolin-4-one derivatives, Deshmukh M. B., Deshmukh D. S. and Shirke S. D., **J. Indian Chem. Soc.**, **74**, 422-23, (1997).
57. Synthesis and Biological activity of some new N1-substituted quinolin-4(1H)ones, Deshmukh M. B., Shelar M. A., Jadhav J. S. and Patil S. H., **Indian J. Heterocyclic Chem.**, **6**, 181-184, (1997).
58. Selective aziridination of Olefins, Deshmukh M. B. and Chavan P. B., **Indian J. Chem.**, **35B**, 1337-39, (1996).
59. Synthesis and Biological activity of some new quinolones, Deshmukh M. B. and Shinde B. S., **Indian J. Heterocyclic Chem.**, **5**, 235, (1996).
60. Synthesis and Biological activity of some new quinolin-2(1H)one derivatives, Deshmukh M. B., Jadhav J. S. and Patil S. H., **J. Indian Chem. Soc.**, **74**, 52-53, (1997).
61. Synthesis of some new aziridine derivatives, Deshmukh M. B. and Chavan P. B. **Indian J. Chem.**, **35B**, 471-474, (1996).
62. Synthesis and Biological activity of some new quinazolinyl thiazolidinones and Azetidinones, Deshmukh M. B. and Deshmukh D. S., **J. Indian Chem. Soc.**, **73**, 799-800, (1995).
63. Efficient method for deamination of pyridyl amines, Deshmukh M. B. and Junek H. **Nat. Acad. Science Letters**, **18(1&2)**, 15-16, (1995).
64. Synthesis of some New pyranopyrazole derivatives, Deshmukh M. B. and Shinde B. S. **Indian J. Heterocyclic Chem.**, **4**, 233-234, (1995).
65. Synthesis and biological activity of 3-(quinolin-4-one-3-yl-acetamido)-2-aryl-4-Thiazolidinone, Deshmukh M. B. and Deshmukh D. S. **Indian J. Heterocyclic Chem.**, **3**, 207, (1994).
66. Synthesis of some new benzofuro(2,3-c)-pyrazole-3(1H)-one, Deshmukh M. B., Smt. Shirke S. D. and Kharade D. R., **J. Indian Chem. Soc.**, **70**, 605-606, (1993).

67. A convenient synthesis of 6,6-dimethyl-6a,7,8,9-tetrahydro-6H-dibenzo(b,d)-Pyrans, Deshmukh M. B., Kharade D. R. and Smt. Shirke S. D., **J. Indian Chem. Soc.**, **32B**, 1156-1158, (1993).
68. Synthesis and characterization of some new Diaroylmethane and acrylophenone complexes of Ni (II), Deshmukh M. B. and Khot B. R., **J. Indian Chem. Soc.**, **69(12)**, 853-854, (1992).
69. Synthesis of some new N-amidoaziridines, Deshmukh M. B. and Smt.Chavan P. B., **Indian J. Chem.** **32B**, 581-585 (1993).
70. Synthesis of benzofuro (2,3-c) pyrazoles and benzofuro (2,3-c) pyridazin-3-one, Deshmukh M. B. and Kharade D. R., **J. Indian Chem. Soc.**, **70**, 263-266, (1993).
71. Synthesis of Some new Benzopyranopyridazin-3-one, Deshmukh M. B., Chavan, P. B., & Kharade D. R., **J. Indian Chem. Soc.**, **69**, 405-406 (1992-93).
72. Synthesis of some new derivatives of from N1-acetylhydrazidoquinolin-2(1H)-One, Deshmukh M. B. and Smt. Chavan P. B., **J. Indian Chem.Soc.**, **69**, 232-233, (1992) (Imp. Factor:0.39).
73. Synthesis and characterization of transitional metal complexes of benzene substituted benzoxazinones, Deshmukh M. B. and Khot B. R., **Proc. Nat. Acad. Sciences, Sec.-A**, **62**, 377-381, (1992).
74. New method for aziridination of alkenes, Deshmukh M. B. and Smt. Chavan P. B. **Indian J. Chem.**, **31B**, 456-458, (1992).
75. Synthesis and characterization of Cu(II), Ni(II) and Co(II) complexes of 1-aroyl, 3- methylpyrazol-5-ones, Deshmukh M. B. and Khot B. R., **Proc. Nat. Acad. Sciences, Sec.-A**, **62**, 307-309, (1992).
76. Synthesis of some substituted 2-Azetidinones and 4-Thiazolidinones, Deshmukh M. B., Uthale A. C. and Nikam B. P., **J. Indian Chem. Soc.**, **67**, 924-925, (1990).
77. Synthesis of some new N1-substituted quinolin-2(H)-one derivatives, Deshmukh ( M. B. and Chavan P. B, **J. Indian Chem. Soc.**, **61**, 573-574, (1991).
78. Synthesis of some new benzofuro-(7,3,-c) pyrazoles and pyrano-(3,2-c) Benzofurans, Deshmukh M. B. and Kharade D. R., **J. Indian Chem. Soc.** **68**, 298-299, (1991).
79. New method for benzoxylation of aromatic compounds, Deshmukh M. B., **Current Science Association**, **59(10)**, 514-516 (1990).
80. Kinetic analysis of consecutive first order reaction : Oxidation of succinic acid Dihydrazides, Deshmukh M. B. and Pawar P. K., **J. Indian Chem. Soc.** **67**, 767-700, (1990).

81. Synthesis and biological activity of N10-(arylidenehydrazido)-phenothiazine, 4-Thiazinones and 2-Azetidinones, Deshmukh M. B., Uthale A. C. and Nikam B. P., **Indian J. Chem.** **30B**, 717-720, (1991).
82. New method for the synthesis of benzoate esters, Desmukh M. B., **Nat. Acad. Sci. Letters**, **13(12)**, 449-451, (1990).
83. Synthesis of some new 4-hydrazido-1,4-benzoxazin-3(2H)-ones and their triazoloderivatives as possible antibacterial agents, Deshmukh M. B., Mulik A. R. and Nikam B. P., **J. Indian Chem. Soc.** **67**, 923-924, (1990).
84. Synthesis and biological activity of 4-(N-arylidenehydrazido)-1,4-benzoxazin-2,3-diones, Azetidinones and 4-thiazolidinones, Deshmukh M. B. and Uthale A. C., **Indian J. Chem.** **29B**, 590-595, (1990).
85. Synthesis of some new phenothiazine derivatives, Deshmukh M. B. and Deshmukh D. S., **J. Indian Chem. Soc.** **66**, 213-213, (1989).
86. Synthesis and biological activity of some new azetidinones and bicyclic pyrazoles, Deshmukh M. B. and Pawar B. N., **J. Indian Chem. Soc.** **66**, 208-209, (1989).
87. Preparation of 5-methyl-N-cyanoethylamino-2,3-dihydroindole, Deshmukh M. B. and Kachare D. S., **J. Indian Chem. Soc.** **66**, 484-486, (1989).
88. Synthesis and biological activity of 1-aryl-5-(p-sulphamylphenylazo)-3,4-dimethylpyrano-(2,3-c)pyrazol-6(14)one, Deshmukh M. B. and Pawar B. N., **J. Indian Chem. Soc.** **66**, 206-207, (1989).
89. Synthesis and biological activity of N1-substituted-3-methyl-5-pyrazolones and related compounds, Deshmukh M. B. and Pawar B. N., **J. Indian Chem. Soc.** **66**, 135-138, (1989).
90. Synthesis of 3-substituted phenyl-4-arylidene-5-(2-O-carbamyl) 5/6-Methyl phenylpyrazoles, Deshmukh M. B. and Pawar B. N., **Asian J. Chem.** **1(1)**, 84-87, (1989).
91. Synthesis and biological activity of diarylmethane/acrylophenone complexes of Cu(II), Deshmukh M. B. & Khot B. R., **J. Indian Chem. Soc.** **66**, 361-362, (1989).
92. Synthesis of some 2(H), 4(H), 1,2,4-triazino-(3,4-c) 1,4-benzoxazin-5-one, Deshmukh M. B. and Nikam B. P., **J. Indian Chem. Soc.**, **LXV**, 735-737, (1988).
93. Synthesis and biological activity of some new flavones, Deshmukh M. B., Pawar B. N. and Nikam B. P., **J. Indian Chem. Soc.**, **LXIV**, 486-487, (1987).
94. Synthesis of some new oxadiazole derivatives, Deshmukh M. B., Shelar A. R., Kachare D. S. and Salunkhe V. K., **J. Indian Chem. Soc.** **LXIV**, 314-315, (1987).
95. The kinetics analysis of consecutive irreversible first order reaction: Oxidation of

nicotinyl hydrazide by peroxydisulphate, Deshmukh M. B. and Nikam B. P., **Nat. Acad. Sciences, India, 57A (IV)**, 409-503, (1987).

**96.** Synthesis and biological activity of some new flavones, Deshmukh M. B., Pawar B. N. and Nikam B. P., **J. Indian Chem. Soc., LXIV**, 486-487, (1987).

**97.** Synthesis of some new oxadiazole derivatives, Deshmukh M. B., Shelar A. R., Kachare D. S. and Salunkhe V. K., **J. Indian Chem. Soc. LXIV**, 314-315, (1987).

**98.** The kinetics analysis of consecutive irreversible first order reaction: Oxidation of nicotinyl hydrazide by peroxydisulphate, Deshmukh M. B. and Nikam B. P., **Nat. Acad. Sciences, India, 57A (IV)**, 409-503, (1987).

**99.** Kinetic analysis of consecutive first order reaction : oxidation of benzhydrazide by peroxydisulphate, Deshmukh M., Jagdale M. H., and Nikam B. P., **J. Indian Chem. Soc. LXII**, 932-933, (1986).

**100.** Synthesis of Thiatriazole derivatives from 6-methyl-1,4-benzoxazin-3(2H)one, Deshmukh M. B., Dhore N. P. and Khot B. R., **J. Indian Chem. Soc. LXII**, 412-413, (1986).

**101.** Synthesis of 3,4,5-Triphenyloxazin-2-one, Deshmukh M. B., Shelar A. R., Tarapore V. T. and Jagdale M. H., **J. Indian Chem. Soc. LXIII**, 408-409, (1986).

**102.** The kinetic analysis of consecutive irreversible first order reaction: Hydrolysis of adipic and pimelic acid hydrazide, Gidde P. A., Nimbalkar A. Y., Deshmukh M. B. and Jagdale M. H., **J. Indian Chem. Soc. LXII**, 281-283 (1985).

**103.** Synthesis of some new derivatives of 6-chloro-4-hydrazido-3,4-dihydro-2H-1,4-benzoxazin-3-one, Deshmukh M. B., Tarapore V. T., Shelar A. R. and Jagdale M. H. **J. Indian Chem. Soc. LXII**, 471- 472 (1985).

**104.** Synthesis of 1, 2-Dihydro-3-isonocotinoyl-6-(aniline)-1,2,4,5-Tetrazine, M. B. Deshmukh (Hogale) and B. R. Khot, **J. Shivaji Univ.(Science)**, **22**,117-119(1984-85).

**105.** Synthesis of some new Derivatives of 6-Chloro-3,4-dihydro-2H-1,4-benzoxazin-3-One, M. B. Deshmukh (Hogale), V. T. Tarapore and A. R. Shelar, **J. Shivaji Univ.(Science)**, **22**,121-123(1984-85).

### **13. Conferences/Symposium attended:**

#### **Participation in Conferences/Seminars/Workshops/Proceedings:**

1. Oxidation of nicotinic acid hydrazide by peroxydisulphate catalysed by Ag(I):Abstracted in Indian Council of Chemists held at Shrinagar, Nov.6 to 8 (1982).

2. The oxidation of isonicotinic acid hydrazide by peroxydisulphate catalysed by Ag(I): Paper accepted for presentation in Indian Science Congress Association held at Tirupati during June 3rd-8th 1983.
3. Oxidation of phenylacetic acid hydrazide by peroxydisulphate: Paper accepted for presentation in the national Symposium on Kinetics and Mechanism of reaction in solution held at Mysore, July 23-25 (1983).
4. Kinetic analysis of consecutive irreversible first order reaction :Oxidation of imides by potassium permanganate. Phy (p)-78. Paper accepted for presentation in 22nd Annual Convention of Chemists held at Raipur, Nov. 4-8, (1985).
5. Chemical analysis of distillery effluent. Paper accepted for poster display in the 73rd Session of Indian Science Congress Association held at New Delhi, Jan, 3rd-8th, (1986).
6. Oxidation of nicotinic acid hydrazide by peroxydisulphate catalysed by Ag(I): Abstracted in Indian Council of Chemists held at Shrinagar, Nov.6th- 8th (1982).
7. The oxidation of isonicotinic acid hydrazide by peroxydisulphate catalysed by Ag(I): Paper accepted for presentation in Indian Science Congress Association held at Tirupati during June 3rd-8th 1983.
8. Oxidation of phenyl acetic acid hydrazide by peroxydisulphate: Paper accepted for presentation in the national Symposium on Kinetics and Mechanism of reaction in solution held at Mysore, July 23rd –25th (1983).
9. Kinetic analysis of consecutive irreversible first order reaction :Oxidation of imides by potassium permanganate. Phy (p)-78. Paper accepted for presentation in 22nd Annual Convention of Chemists held at Raipur, Nov. 4th –8th , (1985).
10. Chemical analysis of distillery effluent. Paper accepted for poster display in the 73rd Session of Indian Science Congress Association held at New Delhi, Jan, 3rd-8th, (1986).
11. Synthesis of Indole derivatives, (Abstr. No. 005/160). Paper accepted for presentation in Indian Council of Chemists held at Madurai, Dec. 27th –29th , (1986).
12. Synthesis of some oxadiazole derivatives, (Abstr. No. 0052/160): Accepted for presentation in Indian Council of Chemists held at Madurai, Dec. 27th – 29th, (1986).
13. Synthesis and biological activity of some substituted –2,4/3,5-dihydro-1/2-oxo-(1,2,4)/(1,2,5)-triazolo(3,4-c)-1,4benzoxazines, Paper presented in the Convention of Chemists held at Shivaji Univ. Kop. On (Abstr. No. Org. H-42); 22nd –26th Nov., (1987).
14. Kinetics and Mechanics of oxidation of aliphatic dihydrazides by Hexacyanoferrate (III) in alkaline medium.(Abstr. No.-Phy-74). Paper presented in the convention of Chemists held at Shivaji University, Kolhapur from 22nd-26th, (1987).
15. Synthesis and Biological Activity of  $\square$ -diketone complexes of Cu(II). (Abstr.ING-53).Convention of Chemists Nov. 11th-26th, (1987).



16. Synthesis of some new 1-Substituted 1,4-benzoxazine. Accepted for presentation in Indian Council of Chemists, 8th Annual Conference held at Tirupati during Oct. 24th-26th, (1988).

17. Synthesis of some substituted new benzofuro(2,3-c)pyrazoles and pyrano-(3,2-b) benzofurans, Ref-OP-14. Paper accepted for presentation in the 9th Session, Indian Council of Chemists held at Gulbarga (1990).

18. Synthesis and Characterization of Ni(II), Cu(II) and Cu(II) of 1-aryl-3- Paper accepted for presentation in the Silver Jub. Celebration Conference of Nat. Acad. Of Sci. held at Allahabad in May, (1991).

19. Synthesis of some new N1-substituted quinoline derivative Ref.-(00-79). Paper accepted for the presentation in 10th Annual Conference of ICC, held at Goa From 28th-30th Oct., (1991).

20. Synthesis and Biological activity of 1-(N1 -arylidenehydrazidomethyl)-4-oxo-quinazolin 2-thione, Azetidinone and 4-Thiazolidinone. The paper presented in the 5th National Symposium on Bio-organic Chemistry, held at Dept. of Chemistry, Kolhapur on 24th and 25th February, 1995. (Poster session, P-32).

21. Synthesis and Biological activity of some new N1-substituted quinoline derivatives. The paper presented in the 5th National Symposium held at Dept. of Chemistry, Kolhapur on 24th and 25th February 1995

22. Synthesis of new N1 substituted 4, 6- dimethyl quinoline-2 (1H) one derivatives. Paper accepted in the Council of Chemist for poster presentation at Mangalore University, Mangalagotri, Karnataka, 1997.

23. Synthesis of some new 7-chloro-4-phenyl-3-substituted 4-quinolin-2(1H)-one Derivatives. 33rd Annual Convention of Chemists held at Coimbatore, Tamil Nadu, 1997.

24. Synthesis of some new N1-substituted 4-phenylquinolin-2(1H)-one derivatives. Paper accepted for poster presentation in the National Symposium on Newer concepts on Organic Synthesis held at Aurangabad, March 20-21st, 1998.

25. Synthesis and Biological activity of 2-(N-arylidenehydrazidoethylthio)-4(3H)-quinolinone.

Paper accepted for the oral presentation in the National Symposium on Newer Vistas in Synthesis protocol and Structural elucidation in Chemistry held at Madurai Kamraj Univ. Madurai, Tamil Nadu, 24th April, 1998.

26. Synthesis of some new N1-substituted 4-methylquinolin-2(4)-one derivatives. The paper presented in the National Science Congress in the poster session of National Science Congress held at Univ. of Pune during 3rd-8th January, 2000.

27. Synthesis, spectral studies and antimicrobial activity of some new acridine derivatives. The paper accepted for oral presentation in the Annual Convention of Chemists held during 11th-16th December 1999.

28. Synthesis of some new tricyclic 1,4-benzothiazine derivatives. The paper accepted for poster presentation in National Conference on current trends on the Chemistry of Heterocyclic compounds held during 13th-14<sup>th</sup> March 2000, at Venkateshwara Univ. Tirupati.

29. Fungicidal activity of some substituted aroyl hydrazones. The paper accepted for oral presentation in the National Symposium on Biochemistry, Panjab Agriculture Univ. Ludhiana, Held during 17th-18<sup>th</sup> February 2000. 30. Synthesis and Biological activity of some new S-substituted 2- mercaptobenzothiazole derivatives. M. B. Deshmukh, D. K. Salunkhe and D. N. Chavan. Paper accepted for presentation in Indian Science Congress held at New Delhi during 3rd-8th January, 2000.

31. Acute toxicity and Behavioural response to Distillary effluents of fresh water fish *Tillospora Mossambica*. M. G. Bhosale and M. B. Deshmukh. Paper presented in the National Symposium held at Govt. College, Aurangabad during 16th-17th December, 2000.

32. Synthesis of some new Tricyclic 1,4-Benzothiazine Derivatives M. B. Deshmukh and A. R. Mulik. The paper accepted for presentation in Indian Science Congress Association, held during 3rd-8th January, 2001.

33. Synthesis of some new quinoline derivatives. M. B. Deshmukh, N. G. Garud and A. S. Kanade. Paper presented in the Indian Convention of Chemists, held at Gurukula Kogri University, Hardwar during 15th-18th Nov. 2000.

34. Synthesis of some new Benzocondensed Heterocycles and their Derivatives. M. B. Deshmukh and S. S. Patil. Accepted for presentation in Indian Council of Chemists, held at Manasngotri Mysore, during 22-24th Dec. 2001.

35. Synthesis of some new C2-substituted Quinolin-4(3H)-one derivatives. M. B. Deshmukh and S. S. Patil. Paper accepted for presentation in Indian Convention of Chemists, held at Jodhpur during 24-26th Dec. 2001. during 8th-9th Feb. 2002.

36. Synthesis and Biological Activity and Spectral studies of some new Quinoline derivatives (p-44). A.S. Kanade, M. B. Deshmukh and N. G. Garud. Paper presented in the poster session in the National Symposium on Frontiers in Organic Chemistry, held at Dept. of Chemistry, Shivaji Univ. Kolhapur during 8th-9th Feb. 2002.

37. Synthesis and Biological Activity of some new N10-substituted sulphonamide Phenothiazines (P-26). M. B. Deshmukh, D. S. Deshmukh and A. R. Patil. Paper presented in the poster session in the National Symposium on Frontiers in Organic Chemistry, held at the Dept. of Chemistry, Shivaji Univ. Kolhapur during 8th and 9th Feb. 2002.

38. Synthesis of some new Tricyclic 1,4-Benzothiazines (p-27). M. B. Deshmukh and, A.R. Mulik. Paper presented in the poster session in the National Symposium on Frontiers in Organic Chemistry held at Dept. of Chemistry, Shivaji Univ. Kolhapur.

39. Synthesis of some new quinazolin derivatives.(p-28). M. B. Deshmukh, S. S. Patil, S. H. Gaikawad and S. R. Dhongade (Desai). Paper presented in the poster session in the National Symposium on Frontiers in Organic Chemistry held at Dept. of Chemistry, Shivaji Univ. Kolhapur during 8th-9th Feb. 2002.

40. Anti-microbial activity of the extract of the plant Solanum Swattense (I-36). M. I. Maner and M. B. Deshmukh. The paper presented in the International Conference of SAARC countries on

Bio- Technology in Agriculture, Industry and Environment held at Y. C. College of Science, Karad during 28th-30th Dec. 2001.

41. Anti-Microbial and anti-feedant activity of the extract of the plant Durenta Repens (A-57). V. J. Patil, M. B. Deshmukh and M. I. Maner. The paper accepted for the presentation in the International Conference of SAARC Countries on Biotechnology in Agriculture, Industry and Environment held at Y. C. College of Science, Karad during 28th-30th Dec. 2001.

42. Synthesis of 3,4-dihydropyrimidine using P2O5 accepted for Indian Society for Biology 2005 held at Rajkot, Gujrat.

43. Synthesis and QSAR study of substituted 1,3,4-triazoles and 1,3,4-thiadiazoles M.B.Deshmukh, S.A.Deshmukh and S.S.Jagtap. The paper accepted for presentation in the conference on Society for Chemists and Biologists held at Gujrat , 2005.

44. Amberlite IRA-400 Catalyzed Synthesis of Pyrano[2,3-c]Pyrazole Derivatives in Aqueous Media under Microwave Irradiation. M.B.Deshmukh, S.A.Deshmukh, S.S.Jagtap. A.W.Suryawanshi, P.V. Anbhule and S.D. Jadhav. The paper accepted for presentation in the national conference on "Chemistry in Drug Industry" held at 7th-8th October 2005 in Warangal.

45. Solvent free accelerated synthesis of 2-hydrazino benzothiazole Derivatives using microwave irradiation. The paper accepted for presentation in the national conference on Chemistry in Drug Industry held at 7th-8th October 2005 in Warangal.

46. Synthesis and QSAR study of Derivatives of 2-Mercapto Benzothiazole (OP12). M.B.Deshmukh, S.A.Deshmukh, S.S.Jagtap, A.W.Suryawanshi P.V. Anbhule and S.D. Jadhav.

The paper accepted for presentation in the national Symposium Bio-organic and Medicinal Chemistry (NSBM) 5th-7th October 2005.

47. Solventless Synthesis of Fused Pyrazole Derivatives by Using SiO<sub>2</sub> as Catalyst under Microwave Irradiation (PP11). M.B.Deshmukh, S.A.Deshmukh, S.S.Jagtap, A.W.Suryawanshi, P.V. Anbhule and S.D. Jadhav. The paper accepted for presentation in the national Symposium Bio-organic and Medicinal Chemistry (NSBM) 5th-7th October 2005.

48. Enolate Trapping of Enones with Organomanganese Reagents (PP5). M.B.Deshmukh, S.A.Deshmukh, S.S.Jagtap, A.W.Suryawanshi, P.V. Anbhule and S.D. Jadhav. The paper accepted for presentation in the national Symposium Bio-organic and Medicinal Chemistry (NSBM) 5th-7th October 2005.

49. Solvent Free Synthesis of 2,3-Bis-(Benzylidene hydrazine)Quinoxalines under Microwave Irradiation (PP7). M.B.Deshmukh, A.R. Mali, A.W.Suryawanshi, P.V. Anbhule and S.D. Jadhav. The paper accepted for presentation in the national Symposium Bio-organic and Medicinal Chemistry (NSBM) 5th-7th October 2005.

50. Synthesis of biologically active tricyclic and tetracyclic derivatives of Quinazolines M.B.Deshmukh, S.S.Patil, S.R. Dhongade, S. S. Jagtap, S. A. Deshmukh Paper presented in the International Symposium on Drug Discovery and Process research held at College of Pharmacy, Belgium on 10 th-12th Feb.2006.

51.Synthesis of Pyrazole substituted quinazolines-4-(3H)ones and quinazolines- 2(1H)-ones M.B.Deshmukh, S. A. Deshmukh and S. S. Jagtap. Paper presented in the International Symposium on Drug Discovery and Process research held at College of Pharmacy, Belgium on 10 th-12th Feb.2006.

52. Synthesis of New Hybrid molecules containing Bnzothiazoles M.B.Deshmukh, S. S. Jagtap, and S. A. Deshmukh . Paper presented in the International Symposium on Drug Discovery and Process research held at College of Pharmacy, Belgium on 10 th- 12th Feb.2006.

53. Synthesis of Some New Benzothiazolyl Sulfonyl ureas M. B. Deshmukh\*, S.S.Jagtap, S.A.Deshmukh, S.D. Jadhav, A.W. Suryawanshi and P. V. Anbhule Paper presented in the National symposium of Royal Society of Chemistry, West India Section RSC. 2005 organized by NCL, Pune on 25th-26th Nov. 2005.

54. Synthesis of New S-substituted Benzothiazole Derivatives. M. B. Deshmukh\*, S.S.Jagtap, S.A.Deshmukh Paper abstracted in the State level Seminar at Parbhani on 18th and 18<sup>th</sup> March, 2006.

55.Synthesis of biologically active tricyclic and tetracyclic derivatives of Quinazolines M.B.Deshmukh, S.S.Patil, S. R. Dhongade, S. S. Jagtap, S. A. Deshmukh Paper presented in the poster session in the International Symposium on Drug Discovery and Process research held at College of Pharmacy, Belgium on 10 th- 12th Feb.2006.

56. Synthesis of Pyrazole substituted quinazolines-4-(3H)ones and quinazolines- 2(1H)-ones M.B.Deshmukh, S. A. Deshmukh and S. S. Jagtap. Paper presented in the poster session in the International Symposium on Drug Discovery and Process research held at College of Pharmacy, Belgium on 10 th- 12th Feb.2006.

57. Synthesis of New Hybrid molecules containing Benzothiazoles M.B.Deshmukh, S. S. Jagtap, and S. A. Deshmukh . Paper presented in the poster session in the International Symposium on Drug Discovery and Process research held at College of Pharmacy, Belgium on 10 th- 12th Feb.2006.

58. A Potent synthesis, X-ray diffraction study and biological activity of Bis(2,3dimethoxythio-phosphoryl)dimercapto quinoxaline M.B.Deshmukh and A.R. Mali. A paper presented in International Conference DDPR-2006 held at Belgium.

59. Synthesis of New S-substituted Benzothiazole Derivatives. M. B. Deshmukh\*, S.S.Jagtap, S.A.Deshmukh Paper abstracted in the State level Seminar at Parbhani on 18th March, 2006.

60..Synthesis of potential fibrocystic and cardiovascular analeptic tetrazolo quinoxaline Derivatives, Paper abstracted in the International conference on Advances in Drug discovery research held at Dr.B.A.Marathwada university, Aurangabad Feb.24th-26th 2007.

61.Synthesis of Macromolecule containing Naphthaquinone Paper presented in the International conference on Advances in Drug discovery research held at Dr.B.A.Marathwada university, Aurangabad Feb.24th-26<sup>th</sup>,2007.

62.Synthesis and study of biological activity of some new 1,4-Benzothiazine 3(1H)one: The paper abstracted in the state level seminar on Advances in Organic synthetic reagents held in Feb.20th-21st ,2007 at Arts, commerce and science college Shahada, Dist-Nandurbar

63. Invited talk & Chairman of the session in the National seminar on, Recent Advances and Techniques in Chemical education ,conducted by Y.C. Institute of Science, Satara, Feb.19th-20th, 2005.

64. Invited Lectures: Resource person for the Refresher Course Organized by Staff Academic College Dr.B.A.Marathwada University, Aurangabad, on 23<sup>rd</sup> September,2006 and delivered talk on Pheromones in Integrated Pest Management.

65.Synthesis of potential fibrocystic and cardiovascular analeptic tetrazolo quinoxaline Derivatives ,Paper abstracted in the International conference on Advances in Drug discovery research held at Dr.B.A.Marathwada university, Aurangabad Feb.24th-26th ,2007.

66.Synthesis of Macromolecule containing Naphthaquinone Paper presented in the International conference on Advances in Drug discovery research held at Dr.B.A.Marathwada university, Aurangabad Feb.24th-26<sup>th</sup>,2007.

67.Synthesis and study of biological activity of some new 1,4-Benzothiazine 3(1H)one: The paper abstracted in the state level seminar on Advances in Organic synthetic reagents held in Feb.20th-21st ,2007at Arts, commerce and science college Shahada, Dist-Naddurbar.

68.Synthesis and Insecticidal activity of some new pyridine derivatives M.B.Deshmukh, S.V. Sarang and C.S,Sripannawar,Thev paper presented in the National Seminar on Environment and Chemistry organized by Arts, Science and Commerce college, Kholwad (Surat)During 29th & 30th December,2008.

69.Attended State level workshop organized by Singhgad Institute ,Pune on En-Chemistry and deliver talk on Designing of organic synthesis. 18th to 21st December, 2007

70.Attended workshop on Green Chemistry of Dahivadi college, Dahivadi.5th February, 2008

71. Paper presented in the International conference 27th to 29th January, 2007 on Drug discovery and Nano-technology organized by Yashwantrao Mahavidyalaya, Nanded.

72. Presented Paper in UGC-SAP Symposium on synthesis of New Material for Industrial applications held at Shivaji University, Kolhapur 1st and 2nd, 2008.

73. Attended National Seminar on Effects of synthetic drugs on Human Metabolism venue. Pratishtan Mahavidyalaya, Paithan & worked as a Chairman one session on paper presentation during 8th & 9th February, 2008.

74. Synthesis and Biological Activity of Crown ethers containing Schiff bases M.B. Deshmukh and K.N. Alsundkar, International Conference on Drug Discovery and Nano-technology organized by Yashwant college, Nanded 27th January, 2008.

75. Phosphorus pentoxide an efficient catalyst for the Friedlander synthesis of quinoline M.B. Deshmukh, S.M. Salunkhe, P.V. Anbhule, D.K. Salunkhe and S.A. Sankpal, UGC-SAP National Seminar on the synthesis of new materials for Industrial applications Organized by Dept. of Chemistry, Shivaji Univ. Kolhapur February 1 & 2nd, 2008.

76. Cu(I) catalysed Activated addition of organocadmium reagent to unsaturated cyanoesters UGC-SAP National Seminar on the synthesis of new materials for Industrial applications Organized by Dept. of Chemistry, Shivaji Univ. Kolhapur February 1 & 2nd, 2008.

77. Synthesis and X-ray diffraction and spectral study of dye containing benzo-[18]crown-6. M.B. Deshmukh, D.K. Salunkhe and K.N. Alsundkar, National Seminar on effect of Drugs on Human Metabolism organized by Prathisthan Mahavidyalaya Paithan 8-9th February, 2008.

78. Effect of Nano-bacterial culture on the performance of Microbial fuel cell formed with dairy waste()-203) V.D. Patil, S.S. Joshi, M.B. Deshmukh and S.H. Pawar, International conference on nano-materials and Applications 9-11 December, 2008 held at Shivaji University, Kolhapur.

79. Microwave synthesis of 2,3,4-trisubstituted 1,2-dihydropyrimido[1,2-a]benzimidazole (P-219) M.B. Deshmukh & A.W. Suryavanshi. International conference on nano-materials and Applications 9-11 December, 2008 held at Shivaji University, Kolhapur.

80. synthesis and evaluation of the biological activity study of dibenzo-18-crown-6 ether containing hydrazone derivatives (PP-87) M.B. Deshmukh, K.N. Alsundkar, S.A. Sankpal and D.K. Salunkhe International conference on nano-materials and Applications 9-11 December, 2008 held at Shivaji University, Kolhapur.

81. One pot synthesis of Benzimidazole derivatives using sulfamic acid as a catalyst (PP-(81) M.B. Deshmukh, K.N. Alsundkar, S.A. Sankpal, D.K. Salunkhe & P.V. Anbhule. International conference on nano-materials and Applications 9-11 December, 2008 held at Shivaji University, Kolhapur

82. Trapping of the enolate generated by organomanganese conjugate addition to enone in presence of Cu(I) complex. M.B. Deshmukh, S.D. Jadhav and P.V. Anbhule International

conference on nano-materials and Applications 9-11December,2008 held at Shivaji University,Kolhapur

83.Synthesis and Insecticidal activity of some pyrimidine derivatives M.B.Deshmukh., S.V.Sarang & C.S.Shripannawar, Paper presented in the conference held at Kholwad(Surat) 29-30th Nov,2008.

84.Analytical Method Development and Validation for the determination of volatile compounds in Wines by GCMS. Best poster presentation in National Seminar on Advanced Synthetic Methodologies and Functional Materials organized by Dept. of Chemistry , Shivaji Univ. Kolhapur23rd-24th December, 2010.

85. Single Laboratory method for iprovalicarb, fenamidone and fenopyroximate in different matrices by using LC-ESI, MS-MS. D.P.Oulkar, K.Banerji, S.B.Patil, S.H.Patil, P.G.Adsule , Madhukar Deshmukh, paper presented in the International Conference held at Pune Jan.2010.

86.Gallium (III)catalysed multicomponent synthesis of Polyhydroquinolones at ambient Temperature(pp-16);

M.B.Deshmukh. D.R.Patil,P.V.Anbhule and D.K.Salunkhe ,Paper presented in the National Conference on Recent Trends in Chemistry organized by Y.C.Institute of Science, Satara on 14th& 15th October, 2010.

87.Lemon juice catalysed three component reaction as a green approach(pp-46). M.B.Deshmukh., S.S.Patil, R.V.Shejwal and S.D.Jadhav, ,Paper presented in the National Conference on Recent Trends in Chemistry organized by Y.C.Institute of Science, Satara on 14th& 15th October, 2010.

88.Selective Aziridination of Olefinic esters(pp-29), M.B.Deshmukh, P.B.Chavan(Piste), S.T.Mahanwar, ,Paper presented in the National Conference on Recent Trends in Chemistry organized by Y.C.Institute of Science, Satara on 14th& 15th October, 2010.

89.DABCO catalysed one step synthesis of pyrazolo[1,2-b]phthalazinone in water (pp-13), M.B.Deshmukh. D.K.Salunkhe , D.R.Patil,P.V.Anbhule and S.A.Sankpal , ,Paper presented in the National Conference on Recent Trends in Chemistry organized by Y.C.Institute of Science, Satara on 14th& 15th October, 2010.

90.Synthesis and Insecticidal activity of some Thiocloprid derivatives(OP-9), M.B.Deshmukh, P.P.Patil and Chetan S.S., ,Paper presented in the National Conference on Recent Trends in Chemistry organized by Y.C.Institute of Science, Satara on 14th& 15th October, 2010.

91. Synthesis and evaluation of dibenzo-18-crown-6 ether containing hydrazone s as Antibacterial Drug, National Symposiumon Advances in synthetic methodologies and New materials, held at Shivaji university, Kolhapur. January, 21-22nd,2011 and presented following four papers

92 Synthesis and Biological Activity of some new Triazolo condensed Pyrimidine Derivatives(P-16). National Symposiumon Advances in synthetic methodologies and New

materials, held at Shivaji university, Kolhapur. January, 21-22nd,2011 and presented following four papers

93. Synthesis and Spectral study of Dibenzo-18-crown-6 containing monoazo dyes (p-79) National Symposium on Advances in synthetic methodologies and New materials, held at Shivaji university, Kolhapur. January, 21-22nd,2011 and presented following four papers

94. CuI catalysed one pot synthesis of tetrahydrobenzo[b,d]pyran in aqueous media. National Symposium on Advances in synthetic methodologies and New materials, held at Shivaji university, Kolhapur. January, 21-22nd,2011 and presented following four papers

95. Symposium on Advances in synthetic methodologies and New materials. National Symposium on Advances in synthetic methodologies and New materials, held at Shivaji university, Kolhapur. January, 21-22nd, 2011 ..

96. National Seminar on Specialized Aspect of Organic Chemistry Dept. of Chemistry, Karamveer Bhaurao Patil College, Vashi-, 18th & 19th December, 2012

97. Two days National Seminar on Recent Advances in Agricultural Botany Dept. of Botany, Devchand college, Arjunnagar on 27th-28th Sept. 2012.

98. Prospects & Progress in pesticide Chemistry Emerging trends & Techniques in Chemistry, 10th October, 2013 Y.C. Institute of Science, Satara.

99. Frontiers in Chemical & Biological Sciences, 24th Sept., 2013 PDVP, College Tasgaon, Sangli

100. Green Chemistry as an Environmentally Benign Chemistry 31st August, 2013. Ramkrishna Paramhansa Mahavidyalaya

101. Synthesis of Biologically Active Heterocycles National conference on Drug Designing & Discovery, Devchand College Arjunnagar, Dist-Kolhapur

102. Forensic Application of Chemistry Winter school in Chemistry 11th Nov.-1st Decem. 2013 Dept. of Chemistry, Shivaji Univ. Kolhapur.

103. Recent Advances in Organometallic Chemistry, 21st Decem. 2013 Rajarshi Chhatrapati Shahu College, Kolhapur

104. Designing of Organic synthesis & Physico-Organic Chemistry, 22nd & 23rd Feb. 2014, Mumbai Univ. Sub-centre Ratnagiri

105. Current Trends in Chemical & Nano-sciences, 17th & 18th January, 2014. Dept. of Chemistry, Shivaji Univ. Kolhapur.

#### **14. Invited talks:**

##### **Invited lectures in Conferences/symposiums/Colleges/Institutes:**

1. Synthesis of Heterocycles & their applications Invited Lecture P. G. Centre, Mumbai University at Gogate College, Ratnagiri, Oct., 1996



2. Organic Reaction Mechanism Invited Lectures in the UGC sponsored Refresher Course  
Institute of Science, Mumbai, November, 1998
3. Stereochemistry Invited Lectures in the UGC sponsored Refresher Course  
Academic Staff College, Karnataka Univ., Dharwad November-December, 1998
5. Stereochemistry & Applications of Heterocyclic compounds Invited Lectures or M.Sc  
PR.P.Gogate & R.V.Jogalekar College of Commerce, Ratnagiri, 1998
6. Recent Advances in Pest Control Invited Lectures in the UGC sponsored Refresher  
Course Dept. of Botany, Shivaji Univ., Kolhapur '20th March, 1999
7. Stereochemistry M.Sc Chemistry D.B.J.College, Chiplun, 17th-2001
8. Advanced methods of pest control Invited Lecture Science Association Series PDVP  
Mahavidyalaya, Tasgaon, 9th Oct., 2001
9. Pesticide need in agriculture Invited Lectures in the UGC sponsored Refresher Course  
SRTM University, Nanded, 3rd –4th December, 2001
10. Designing of Organic Synthesis Invited Lectures UGC Sponsored Refresher Course  
Dr. B. A. Marathwada University, Aurangabad 3rd.Feb.2002
11. Pesticides & Agrochemicals Invited Lecture P. G. Centre of Shivaji University, Solapur  
, 3rd-4th Feb., 2003
12. Designing of synthesis & Stereochemistry Invited Lectures Lectures P. G. Center of  
Shivaji University, Solapur, 5th Feb. 2003
13. Designing of Organic synthesis Invited Lectures P. G. Centre of Shivaji University,  
Solapur 9th August, 2004
14. Designing of Organic Synthesis, Pericyclic & rearrangement reactions Invited Lectures  
D.B.J.College, Chiplun, 17th-18th January, 2004.
15. Retro synthesis, Umpolung Protection & Deprotection Invited Lectures Shri  
S.H.Kelkar, college, Deogad, 30th Nov. 2004
16. Organic Reaction Mechanism Invited Lecture Industrial Chemistry P. G. Centre of  
Shivaji University, Solapur, 10th July, 2004.
17. Designing of Organic Synthesis Invited Lecture Y. C. College of Science, Karad, 20th  
July, 2004.
18. Theoretical Organic Chemistry Invited Lectures D.B.J.College, Chiplun, 12th & 13th  
Feb., 2005
19. Designing of Organic synthesis Invited Lecture Gulbarga University Chemical Society,  
20th Aug., 2005

20. Green Chemistry Invited Lectures UGC Sponsored Refresher Course Modern Trends in Chemical Science & Technology Dr. B. A. Marathwada University, Aurangabad, 14th Sept..2005

21. Reaction Mechanism & Theoretical Organic Chemistry Invited Lectures D.B.J.College, Chiplun, 12th-13 Feb.2005

22. New Syllabus in Chemistry (B,Sc-III) Invited Lecture in the Work-shop Y. C. Institute of Science, Satara., 2009

23. Reaction Mechanism & Molecular orbital Theory Invited Lecture Solapur University,Solapur, 6th-7th Sept. 2006.

23. Pheromones in Integrated Pest Management UGC sponsored Refresher Course Dr. B. A. Marathwada University, Aurangabad ,23rd Sept., 2006

24. Spectroscopic Methods & reaction Mechanism Invited Lecture Arts, Commerce and Science college, Palus 20th Jan. 2006.

25. Reaction Mechanism and Theoretical Organic Chemistry Invited Lectures, P. G. Centre, Mumbai University at D.B. J. College, Chiplun ,19th-20th Feb.,2006.

26. Designing of Organic synthesis, Protection& Deprotection Lectures, P. G. Centre Smt. V. G. Parkar college, Deogad, 23rd Feb., 2006.

37.Organic Reaction Mechanism: Reactive Intermediates Invited Lectures, Sub.. Centre of Dr. Balasaheb Ambedkar Marathwada University, Osmanabad, 7th –8th Oct. 2006

28. Organic Reaction Mechanism & Stereochemistry Invited Lectures, Solapur University, Solapur, 6th –7th Sept., 2006

29. Chemistry of pesticides and formulation Invited Lectures, M.Sc students Industrial Chemistry Shankarao Mohite-Patil Mahavidyalaya, Akluj, Dist- Solapur ,11th October, 2006

30.Designing of Synthesis and MNR spectroscopy Invited Lectures, P.G.Centre of Mumbai University at Ratnagiri 19th& 20th February, 2007.

31.Refresher Course on at Pheromones in Integrated Pest Management Dr. B. A. Marathwada University, Aurangabad ,23rd Sept., 2006

32. Chemistry of Pesticides and Formulation Invited Lecture Shankarao Mohite-Patil Mahavidyalaya, Akluj, Dist- Solapur. 11th October, 2006

33. Developments in heterocyclic compound Invited Lectures, A work shop on Physics & Chemistry vision to 21st century, Bilateral summit between Shivaji Univ. & Hanyang University, Seoul South Korea. January 8-10,2007.

34. Research Methodology Invited Lecture, under lead College programme. Organized by Arts, Commerce & Science College, Palus , 16th February, 2007
35. Designing of organic synthesis. Invited Lecture State level workshop on En-Chemistry. Singhgad Institute, Pune ,18th to 21st December, 2007
36. Applications NMR & Mass Spectrometry Invited Lectures Modern Trends in instrumental Techniques of Analysis College of Engineering Rajaramnagar College of Engineering Rajaramnagar, Tal-Walwa Dist-Sangli. ,5th February, 2007
37. Molecular Orbital Theory & Non-benzenoid Aromatic compounds Invited Lectures Solapur University, Solapur,16th Feb., 2007.
38. NMR, Mass Spectroscopy, Retrosynthesis Electroorganic synthesis Invited Lectures, Sub-Centre Mumbai University at Ratnagiri, 26-28th December, 2008
39. Green Chemistry Invited Lectures, One day work-shop Dahiwadi College, Dahiwadi ,5th February,2008
40. Spectroscopy, Designing of synthesis, Aromaticity, Protection & deprotection Invited Lectures Sub-Centre of Mumbai University, 26th-28th December,2008.
41. Reaction Mechanism Invited Lectures NET-SET Coaching, North Maharashtra Univ. Jalgaon , 23rd May,2008
42. Effective Teaching Methodologies in Chemistry & Designing of Organic Synthesis Invited Lectures Balbhim College, Beed ,27th December,2009
43. IR spectroscopy & Designing of Synthesis Invited Lecture Sub-canter of Mumbai University at Ratnagiri, 25th-28th December, 2009.
44. Applications of GCMS Invited Lecture A workshop on Analytical instrumentation, 17th February, 2009
45. Retro-synthesis Invited Lectures Y.C.Institute of Science, Satara, 27th October,2009
46. Applications of HPLC Invited Lecture Workshop on Analytical Instrumental TechniquesUSIC ,Kolhapur on 29th January,2010.
47. Designing of Organic Synthesis Invited Lecture P.G.Centre S.H.Kelkar, College, Deogad Jan.2010
48. Designing of Organic Synthesis and Spectroscopy Invited Lecture Sub-.Centre Mumbai. Univ. , 3rd December, 2010
49. Green Chemistry Invited Lecture S.G.M. College, Karad ,19th December 2010.

50. 1) Green Chemistry 2) Forensic Application of Chemistry on Invited Lectures in the Refresher Course Univ. of Pune, 17th & 18th December, 2010.
51. Writing of Research proposal for different Agencies in one day seminar Invited Lectures Y.C. Institute of Science, Satara, 16th December, 2010.
52. Writing of Research Proposal of different agencies Invited Lecture, Lead college activity Y.C. Institute of Science Satara, 16th December, 2010
53. Recent trends in Chemistry Invited Lectures, College Lead Activity S.G.M. College, Karad, 24th December, 2010
54. Designing of Organic Synthesis & Protection & Deprotations Invited Lectures P.G. Centre S.H. Kelkar College Deogad, 26th & 27th February, 2011, Deogad
55. Molecular Orbital Theory Invited Lecture Y.C. Institute of Science Satara, 11th February, 2011
56. Molecular Orbital Theory Invited Lecture Y.C. Institute of Science Satara, 16th December 2011.
57. Project Writing Invited Lecture one-day workshop Y.C. Institute of Science Satara, 16th December 2011.
58. Project formulation Invited Lecture One-day seminar, PDVP college Tasgaon, on 20th August, 2011.
59. Revision of B.Sc. Syllabus Invited Lecture Balwant College, Vita., 30th August, 2011
60. Green Chemistry (IYC-year of Chemistry) Miraj Mahavidyalaya, Miraj, 17th Sept. 2011
61. i) Forensic Applications of Chemistry ii) Green Chemistry Refresher course for College & Univ. Teachers Vidyapratishthan, Arts, Commerce & Science College, Baramati, 25th July, 2012
62. Reaction Mechanism M.Sc (Org. Chemistry) Vivekanand College, Kolhapur, July-October, 2012 (2 lect. Per week on Saturday)
63. Reaction Mechanism M.Sc (Analytical Chemistry) Balasaheb Desai College, Patan, 2nd October, 2012.
64. Greening in Agriculture Invited Lecture National Environmental Engineering Research Institute, Nagpur 17th Feb. 2012.
65. Material Science & Engineering: Scope and Significance Invited Talk One day workshop on Role of basic Sciences & Humanities in Engineering 2012
66. Designing of Organic synthesis & Green Chemistry U.G.C Refresher Course Pune Univ. (Invited Lectures, 25th June, 2012, Forensic Application of Chemistry

67.Green Chemistry U.G.C Refresher Course Vidya Pratisthan.s Arts, Commerce and Science College, Baramati 25th July,2012

68.Research Methodology, Writing of Thesis,Dissertation.Two days workshop on Research Writing, Ethics, Plagiarism and publishability Shivaji University, Kolhapur 26th & 27th July, 2012

69.Green Chemistry Techniques.(Microwave Asst.Reactions, Zeolites, Biocatalyst) A work shop on Revised Syllabus B.Sc-III ,Vivekanand College , Kolhapur 13th August,2012

70.Reaction Mechanism M. Sc. (Analytical Chemistry) Balasaheb Desai College, Patan, 2nd October, 2012.

71.Writing of Research Proposal ? Invited Lecture on How to prepare & Submit Research Proposal ? Dept. of Zoology, Shivaji University, Kolhapur, 5th February, 2013

72.Material Science Scope & Significance Role of Basic Sciences & Humanities in Engineering Rajarambapu institute of Technology, Rajaramnagar, Islampur( Dist-Sangi) on 24th December, 2012

73.Research Methodology Research Tools & Techniques in Geography, Organized by Dept. of Geography, Shivaji University, Kolhapur on 15th December, 2012

74.Green Chemistry Special Lecture Organized by Dept. Of Environmental Materials Division, NEERI , Nagpur.

75.Writing of Research papers, Ethics & Plagiarism Writing of Research papers, Ethics & Plagiarism S.G.M.College, Karad on 28th January, 2013

76.Writing of Research, Ethics & Plagiarism Writing of Research, Ethics & Plagiarism Kamala college, Kolhapur on 24th January, 2013,

77.Greening in Agriculture Two days National Seminar on Recent Advances in Agricultural Botany Dept. of Botany, Devchand college, Arjun Nagar on 27th-28th Sept. 2012.

78.Designing of Synthesis National Seminar on Specialized Aspect of Organic Chemistry Dept. of Chemistry, Karamveer Bhaurao Patil College, Vashi-, 18th & 19th December, 2012

79.Invited Lecture on Greening in Agriculture Training Workshop on 19th December, 2013 District Agriculture Training Centre , Arabhavi

80.Invited Lecture Mass spectrometry Advanced spectral methods of analysis D.P.Bhosale college, Koregaon, Dist-Satara

81.Invited Lecture on Forensic Application of Chemistry Winter school in Chemistry 11th Nov.-1st Decem. 2013 Dept. of Chemistry, Shivaji Univ. Kolhapur.

82. Invited Lecture on Synthesis of Biologically Active Heterocycles National conference on Drug Designing & Discovery, Devchand College Arjunnagar, Dist-Kolhapur

83. Lecture on Green Chemistry Green Chemistry as an Environmentally Benign Chemistry 31st August, 2013. Ramkrishna Paramhansa Mahavidyalaya

84. Chaired session & Invited Lecture Frontiers in Chemical & Biological Sciences, 24th Sept., 2013 PDVP College Tasgaon (Sangli)

85. Invited Lecture: Prospects & Progress in pesticide Chemistry Emerging trends & Techniques in Chemistry, 10th October, 2013 Y.C. Institute of Science, Satara

86. Chairman of Oral Session Current Trends in Chemical & Nano-sciences, 17th & 18th January, 2014. Dept. of Chemistry, Shivaji Univ. Kolhapur.

87. Invited Lecture Research Methodology, Ethics and Plagiarism Dept. of Electronics Shivaji Univ. Kolhapur

88. Invited Lectures Designing of Organic synthesis & Physico-Organic Chemistry, 22nd & 23rd Feb. 2014, Mumbai Univ. Sub-centre Ratnagiri

89. Invited Lectures Reaction Mechanism, Theoretical chemistry & Stereochemistry, 2013 Vivekanand College, Kolhapur

90. Recent Advances in Organometallic Chemistry, 21st Decem. 2013 Rajarshi Chhatrapati Shahu College, Kolhapur