

**Smt. Narsamma Arts Commerce & Science College, Kiran Nagar, Amravati**

**Teachers' Profile**



1. Name (in Block Letters) : UMESH S. KHANDEKAR  
2. Father's/Husband's Name : SHESHRAO N. KHANDEKAR  
3. Department : Industrial Chemistry  
4. Current Designation & Grade Pay : Professor  
5. Date of Joining : 01-01-2000  
6. Date of last Promotion : 26-02-2020  
7. Address : Flat No.1, Shree Arpan Residency Sindhu  
Nagar, Near Farshi Stop, Sahu Medical to  
Narsamma College Road, Amravati.  
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8. Academic qualification:

Examination	University	Subject/	Year of	Division/
B.Sc.	Amravati	Che, Bot, Zoo.	1995	I
M.Sc.	Amravati	Organic Chemistry	1997	I
M.B.A.	Amravati	Marketing Management	1999	II
Ph.D.	Amravati	Gas Sensor, Chemistry	2003	

9. Teaching/Research Experience

Level	Name of the University/ College/ Institution	Duration
UG	Arts, Commerce and Science College Kiran Nagar Amravati	Since Jan. 2000 ,till date
PG	Arts, Commerce and Science College Kiran Nagar Amravati	Since 2008, till date
Research	Arts, Commerce and Science College Kiran Nagar Amravati	15 Yrs.

10. Academic Staff College Orientation / Refresher Course attended during the year:

S.No.	Name of the Course/	Place	Duration	Sponsoring
1	Refresher Course in Chemistry	Academic Staff College RTM Nagpur University, Nagpur.	18/10/2004 to 07/11/2004	UGC

2	Refresher Course in chemical Sciences	Sant Gadgebaba Amravati University,	08/11/2005 to 28/11/2005	UGC
3	Refresher Course in ICT	Academic Staff College Sant Gadgebaba Amravati	03/03/2010 to 20/03/2010	UGC
4	Short Term Course on Environment Awareness Programme	Academic Staff College Sant Gadgebaba Amravati.	26/09/2011 to 01/10/2011	UGC
5	Seven Days Workshop on Human Rights in India: Issues, Problems and Perspectives	Ramkrushna Mahavidyalaya, Darapur, Ta. Daryapur, Dist. Amravati	24/03/2015 to 30/03/2015	UGC

## 11. RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

### A) Published Papers in Journals

Sr. No.	Title with Pg. No.	Journal	ISSN / ISBN No.	Impact Factor, if any
1	Effect of Additives on Al <sub>2</sub> O <sub>3</sub> based LPG sensors	Indian Journal of Engineering and Material Sciences, 2006.	ISSN 0971-4588	Nil
2	Nanocrystalline Ni <sub>0.6</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> : A novel semiconducting material for ethanol detection	Talanta, 2009.	ISSN 0039-9140	3.29
3	LPG Gas Sensor based on WO <sub>3</sub> : In <sub>2</sub> O <sub>3</sub>	Bionano Frontier, 2011.	ISSN 0974-0678	Nil
4	Phytochemical Investigation on <i>Wrightia tinctoria</i> Fruit	International Journal of Pharmacognosy and Phytochemical Research, 2013.	ISSN 0975-4873	1.095

5	Phytochemical Screening, Antioxident Activity and Antimicrobial Activity of <i>Lagerstroemia parviflora</i>	International Journal of Pharma and bio Sciences, 2013.	ISSN 0975-6299	2.958
6	Investigation on antioxidant, Antimicrobial and Phytochemical Profile of <i>Blumea Lacera</i> Leaf	International Journal of Biological and Pharmaceutical Research, 2013.	ISSN 0976-3651	1.34
7	Screening on Antioxident Activity, Antimicrobial Activity and phytoconstituents of <i>Cyathocline lyrata</i> leaf	International Journal of Chemical and Pharmaceutical Sciences, 2013.	ISSN 0976-9390	0.684
8	Evaluation of Antioxident Activity, In-Vitro Antimicrobial Activity and Phytoconstituents of <i>Schleichera Oleosa</i> (Lour) Oken	International Journal of Biological and Pharmaceutical Research, 2015.	ISSN 0976-3651	1.34
9	Studies on Pharmacological and Chemical Composition of Crude Plant Extract of <i>Rivea Hypocrateriformis</i>	Americal Journal of PharmTech Research 2015	ISSN 2249-3387	0.9832
10	Chemical Composition And Pharmacognestic Study Of Crude Plant Extract Of <i>Vernonia Elaeagnifolia</i>	International Journal of Pharma and Bio Sciences 2015	ISSN 6299 - 0975	5.121
11	Synthesis and Characterization of Biodiesel From Coconut Oil by Green Method	Americal Journal of PharmTech Research, 2016	ISSN 2249-3387	0.9832
12	Extraction and Characterization of Echinops Echinatus Plant Extract by Column Chromatography and GC-MS Analysis. Pg. 784-789, 6 (3).	Americal Journal of PharmTech Research, 2016.	ISSN 2249-3387	1.123
13	Phytochemical Investigation of <i>Ageratum conyzoides</i> leaves extract Pg No. 5991-5994	International Journal of Advance Research and Innovative Ideas in Education	ISSN NO (O):2395- 4396	4.06

14	Investigation of Bioactive Chemical Constituents of <i>Ageratum conyzoides</i> leaves extract Pg. No. 4201-4204	International Journal of Advance Research and Innovative Ideas in Education	ISSN NO (O):2395-4396	4.06
15	Phytochemical analysis of Leaves of <i>fimbristylis ovate</i> , Vol-4, Issue-4, 2018, Pg. 693-696.	International J.of Advance Research and Innovative Ideas in Research, 2018.	ISSN 2395-4396	4.06
16	Phytochemical Screening of <i>Fimbristylis Ovata</i> Stem, Vol-4, Issue-4, 2018, Pg. 709-711.	International J.of Advance Research and Innovative Ideas in Research, 2018.	ISSN 2395-4396	4.06
17	Studies on phytochemical composition of extract of <i>murraya koenigii</i> leaves. Vol. 6 Issue 6 No. Pg. No.178-181	Journal of Emerging Technologies and innovative Research, June 2019	ISSN 2349-5162	5.87
18	Phytochemical investigations of <i>Mentha arvensis</i> leaves extract Vol. 6 Issue 2, Pg. 216-220	International Journal of Research and Analytical Reviews June 2019	ISSN 2349-5138	5.75
19	Phytochemical Screening of <i>Ageratum Conyzoides</i> leaves Extract Vol. 6 Issue 2, Pg. 387-389.	International Journal of Research and Analytical Reviews June 2019	ISSN 2349-5138	5.75

B.(i) Articles / Chapters published in Books :

Sr. No.	Title with page nos.	Book Title, editor & publisher	ISSN / ISBN No.
1	NIL		

B.(ii) Full Papers in Conference Proceedings :

S.N.	Title with page nos.	Details of Conference publication	ISSN / ISBN No.
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1	Effects of Excess Fluoride Content in Children	National conference on Advance Technologies in Material Science and their Applications, Arvi Dist. Wardha. 2011.	
2	Synthesis, Physicochemical and thermal studies of Zn (II) complex with dibasic Tetradentate Unsymmetrical Schiff base Ligand.	National conference on Advance Technologies in Material Science and their Applications, Arvi Dist. Wardha. 2011.	
3	Gas Sensing Properties of WO <sub>3</sub> : In <sub>2</sub> O <sub>3</sub> For LPG.	National conference on Materials : Atom to Molecule, Murtizapur, 2011.	
4	Effect of Additives on Gas Sensing Properties of WO <sub>3</sub> based Sensor	National conference on recent Trends in Material Synthesis and Characterization, Saoner, 2011.	
5	Synthesis and Characterization of ZnO.	National Seminar on Technological Innovations with Environmental Integrity, HVPM Engg. College, Amravati, 2012.	

B. (iii) Books Published as single Author or as Editor:

Sr. No.	Title with page nos.	Type of Book & Authorship	Publisher & ISSN / ISBN No.
1.	NIL		

C. Ongoing and Completed Research Projects:

Sr. No.	Title	Agency	Period	Grant /Amount Mobilized (Rs lakh)
1.	Extraction, Characterization and Preparation of Structural Analogue of Bioactive Chemicals from Leaves of <i>Echinops Echinatus</i> Plants.	UGC	2014-2016 (Completed)	3.00 Lakh

(D) Research Guidance:

Sr. No.	Number Enrolled	Thesis Submitted	Degree awarded
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1.	M. Sc. Curriculum Projects	16	
2.	M. Phil. Or equivalent		NIL
3.	Ph. D. or equivalent		02 students are working

(E) (i) Papers presented in Conferences, Seminars, Workshops, Symposia :

Sr. No.	Title of the Paper	Title of Conference / Seminar	Organized by	international / national / state / regional / college or university level
1	Effect of Additives on WO <sub>3</sub> based H <sub>2</sub> sensor	14 <sup>th</sup> Annual General Meeting & Theme Symposium on Novel Polymeric Materials BARC, Mumbai	Material Research Society of India, 2003.	International
2	Effect of Additives on WO <sub>3</sub> Based LPG Sensor	The 2 <sup>nd</sup> International Conference on Technological Advances of Thin Films and Surface Coatings.	Nan-yang University, Singapore, 2004.	International
3	A Novel Gas Sensor Based on WO <sub>3</sub> Thick Films for the Detection of LPG at Low Temperature.	National conference on Emerging trends in chemical sciences in the new millennium.	Shri. Shivaji Sc. College, Amravati.2004	National
4	Effective control of corrosion of steel in concrete structures by using chemically modified cement and water quality- A novel	National Conference on Green Chemistry and its Perspective.	P.G. Deptt. of Chemistry S.G.B. Amravati University, Amravati, 2008.	National

	method.			
5	Principles of Green Chemistry and Environmental safety.	National Conference on Green Chemistry and its Perspective.	P.G. Deptt. of Chemistry S.G.B. Amravati University, Amravati, 2008.	National
6	Ionic Liquids: Green solvent for future	National Conference on Green Chemistry and its Perspective.	P.G. Deptt. of Chemistry S.G.B. Amravati University, Amravati, 2008.	National (29-30/01/2016)
7	Diversity of members of family <i>Lamiaceae</i> with respect to their chemical constituents	National Seminar on Status of Biodiversity in India 2010-11	R.D.I.K. College, Badnera, 2011.	National
8	LPG sensor based on $WO_3:In_2O_3$ Pg. 41	<b>National Seminar</b> on Current Trends in Material Science- 2011, 03/12/2011	R.G. Rathod College, Murtizapur, Dist.- Akola.	National

9	Gas Sensing Properties of WO <sub>3</sub> : In <sub>2</sub> O <sub>3</sub> ForLPG. Pg. 19	<b>National conference</b> on Materials : Atom to Molecule, 16/12/2011.	Shivaji Sci. College, Nagpur.	National
10	Diversity of members of family <i>Rutaceae</i> with respect to their chemical constituents	National Seminar on recent Trends in Plant Biotechnology.	Mahatma Fule College, Warud, 2012.	National
11	Evaluation of antioxidant activity, in-vitro antimicrobial activity and phytoconstituents of <i>Schleichera oleosa</i> (lour.) oken	National Conference on Frontier Areas in Chemistry and workshop on Quantum Mechanics and Research Methodologies.	Shri. Shivaji Science College, Amravati. 2013	National
12	Chemical Composition of Crude Plant Extract of <i>Echinops echinatus</i> by column Chromatography and GC-MS Analysis	National Conference on Chemical Sciences: Emerging Scenario and Challenges.	Department of Chemistry, Sant Gadge Baba Amravati University, Amravati. 29-30 Jan 2016	National
13	Synthesis, characterization and antibacterial studies of	National Seminar On Nanotechnology and Nano Engineertng.	Arts, Commerce and Science College, Kiran Nagar, Amravati.	National



	Transition metal II complexes of 7 –(1- (diphenylamino) propyl)quinolin- 8-ol		29 Sept. 2016.	
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(E) (ii) Invited Lectures and Chairmanships at national or international Conference/seminar etc.

Sr. No.	Title of lecture / Academic Session	Title of Conference / Seminar etc.	Organized by	international / national	Nature of Honor
1	NIL				

## 12. Contribution in CO-CURRICULAR, EXTENSION, PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES.

### (i) Extension, Co-curricular & field based Activities

- Conducts the Seminar's for B.Sc. I,II and III Students.
- Arranged the Industrial Visits for UG and PG Students.
- Actively participated in the NSS Special Camp.
- Continuously Organizing an One Day Workshop on "Fire Safety Management and On-site Risk Assessment"

### (ii) Role in College Activities

- Member of IQAC
- Member of Admission Committee
- Member of Prospectus Committee
- In-charge of Central Instrumentation Cell

### (iii) Membership of Academic/Social Organizations:

- Life Member of Amravati University Chemistry Teachers Association.
- Life Member of Indian chemistry Teachers Association.
- Reviewer of Advances in Science, Technology and Engineering Systems Journal (ASTESJ)

### (iv) Role in university activities

- Member of Subject Examination Committee for P.G.

- Paper setting for university Examinations.
- Member of syllabus design committee.
- Member of Scrutiny committee for New Subject/Section/college proposals at University.
- University Examination answer sheet valuation work
- External Examiner for University Practical Examination

### 13. Innovations/ Contributions in Teaching

#### **Design of Curriculum**

Member of curriculum Design for B.Sc. I, II and III.

#### **Teaching Methods**

- Classroom Teaching with the help of flow diagrams/charts
- Interactive sessions.
- Brain Storming Sessions.
- ICT

#### **Laboratory Experiments**

- Provide scripts of procedures.
- Safe and feasible methods for performing experiments.
- Use of ICT

#### **Preparation of resource materials**

Prepare hand written notes on curriculum materials.

Prepared Power Point presentation for ICT Lectures

### 15. Any other information

- **Enrolled two students for Doctoral degree at S.G.B. Amravati University, Amravati.**