

# Shri Shivaji College of Arts, Commerce and Science, Akola

## Faculty Profile

1. Name : DR. Anil Madhaorao Metkar
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Near Happy Hours School,  
Jatharpeth, Akola - 444003
3. Phone No. / Cell No. : 9850391570
4. E-mail address : ammetkar@gmail.com
5. Designation : Assistant Professor
6. Department : Mathematics
7. Date of Birth : 21<sup>st</sup> November, 1962
8. Area of Specialization : Relativity
9. Academic Qualifications :

Examination passed	Board / University	Subject / Specialization	Year of Passing	Division / Grade/ Merit
Bachelor's Degree	Nagpur University, Nagpur	Phy., Chem., Math.	1984	Second
Master's Degree	Nagpur University, Nagpur	Topology	1986	First
M. Phil.	Nagpur University, Nagpur	Mathematics	1989	Passed
Ph. D.	SGB, Amravati University, Amravati	Relativity	2009	Awarded
B. Ed.	Nagpur University, Nagpur	Maths, Phy.	1987	Second

### 10. Membership of Academic Organizations:

- Member of Nagpur University Teachers Association
- Member of Amravati University Teacher's Association

### 11. Research Experience:

#### (a) Publishing Research Papers:

- A M Metkar, V R Chirde and A G Deshmukh : "Plane Gravitational Waves in Four Dimensional Space-

$$z = \frac{\sqrt{3} t}{x + y + z}$$

time for  $x + y + z$ , Science Journal of GVISH, VOL. I, Feb-2004, P. N. 18-20.

- A M Metkar, V R Chirde and A G Deshmukh : "The Coordinate System in Which  $g_{\alpha\alpha} = 0$ , for the Plane Gravitational Waves  $Z = (z-t)$  Type &  $Z = (t/z)$  Type In Six Dimension", Accepted for Publication in Acta Ciencia Indica.
- A M Metkar, V R Chirde and A G Deshmukh : "Some Geometrical Aspects of the Plane Symmetric Space-time", Applied Science Periodical, Vol. XI, No. 3, August 2009.
- A M Metkar, V R Chirde and A G Deshmukh: "Plane Gravitational Waves  $Z = (t/z)$  Type of Weakened Field Equations in General Relativity", Bulletin of Calcutta Mathematical Society, Vol. 99, No. 4, (2007).
- A M Metkar, V R Chirde and A G Deshmukh : "Plane Symmetric Inhomogeneous Models in Presence of Massive Scalar Field and Perfect Fluid Distribution in General Relativity", Aryabhata, Research Journal of Physical Sciences, Ara (Bihar) India.
- A M Metkar, V R Chirde and A G Deshmukh : "On Plane Gravitational Waves  $g_{ij}(Z)$ ,

$$Z = \frac{\sqrt{3} t}{x + y + z}$$

Accepted for Publication in the proceeding of National Seminar on "Recent trends in Mathematics and its applications" 24 - 26 Oct. 2004.

- V R Chirde, A M Metkar and A G Deshmukh :, Plane Gravitational Waves in Four Dimension Space-

$$Z = \frac{x + y + z}{\sqrt{3}} - t$$

Time for , Science Journal of GVISH, VOL. I, Feb-2004, P. N. 1-3.

- V R Chirde, A M Metkar and A G Deshmukh :, “Plane Gravitational Waves  $g_{ij}(Z)$  of the Einstein's

$$Z = \frac{x + y + z}{\sqrt{3}} - t$$

Field Equation for ”, Bulletin of Pure and Applied Sciences, VOL. 24 E(No.1), 2005, P 217-220.

- V R Chirde, A M Metkar and A G Deshmukh :, “ The Coodinate System in Which  $g_{\square} = 0$ , for the Plane Gravitational Waves  $Z = (z-t)$  Type and  $Z = (t/z)$  Type”, Applied Science Periodical in Vol.VIII, No. 4, Nov. 2006.
- V R Chirde, A M Metkar and A G Deshmukh :, “ Non-Existence of Gravitational Plane Waves With Massive Meson Complex Scalar Waves and Coupled With Electromagnetic Waves”, Mathematics Education in Vol.XLI, No. 3, Sept. 2007.
- V R Chirde, A M Metkar and A G Deshmukh : ”Plane Wave Solutions of Einstein-Maxwell Equations with the Coexistence of Null Fluid and Null Currents”, Acta Ciencia Indica, Vol. XXXII M, No. 2, 6-19 (2006).
- V R Chirde, A M Metkar and A G Deshmukh : “Some Properties of Purely Plane Gravitational Waves  $g_{ij}$  Bulletin of Calcutta Mathematical Society, Vol. 30, No. 1-3, (2007).
- V R Chirde, A M Metkar and A G Deshmukh : “ (z-t) - Type Plane Wave Solutions of Weakened Field Equations Communicated

## 12. Orientation / Refresher Courses Attended:

Sr. No.	Refresher / Orientation Course	Duration From .... To	Institute / University where the course is organized
(i)	Orientation Course	20 / 10/ 2001 to 12 / 11 / 2001	Academic Staff College, Nagpur University, Nagpur
(ii)	Refresher Course	10 / 3 / 2004 to 30 / 3 / 2004	North Maharashtra University, Jalgaon.
(iii)	Refresher Course	28 / 5 / 2009 to 14 / 6 / 2009	Academic Staff College, SGB Amravati University, Amravati.

## 13. Seminars / Conferences / Symposia / Workshops Attended :

Sr. No.	Conference / Symposium / Seminar / Workshop	Duration From ..... To	Institute / Collage / University where the course is organised
(i)	National Symposium on Mathematical Sciences	1 to 5 March 2001	Post Graduate Department of Mathematics, Nagpur University, Nagpur
(ii)	State Level Seminar on Recent Trends in Mathematics	5 to 6 March 2002	Post Graduate Department of Mathematics, Nagpur University, Nagpur
(iii)	One Day University Level Workshop on New Syllabi of Mathematics	14th September 2003	Organised by Amravati University Teachers association & Brijlala BiyaniMahavidyalaya, Amravati
(iv)	National Seminar on Recent Advances in Mathematical Physics	4 <sup>th</sup> January, 2004	Bhartiya Shikshan Sanstha, Shri Dnyanesh Mahavidyalaya, Nawargaon (Dist. Chandrapur)
(v)	National Seminar on Recent Advance in Applied Mathematics	1 <sup>st</sup> July, 2004	Department of Applied Mathematics, Andhra University, Vishakhapatnam (A. P.)
(vi)	National Seminar on Recent Trands in Mathematics & its	24 to 26, 2004	Department of Mathematics, Govt. P. G. College, Dhamtari ( Chhatisgarh )

	Applications		
(vii)	National Seminar on theory of Relativity	21 <sup>st</sup> August, 2004	Post Graduate Teaching Department of Mathematics, Nagpur University, Nagpur
(viii)	Workshop on Mathematica	15 to 16 October 2004	Department of Mathematics, Shri Sant Gajanan Maharaj Collage of Engineering, shegaon.
(viii)	International Conference on Relativity ICR-2005	11 to 14 January 2005	Post Graduate Department of Mathematics, Amravati University, Amravati
(ix)	Functional English	22 to 23 September, 2005	Botanical Society, GVISH, Amravati.
(x)	Interdisciplinary National Conference on Einstein's Theory of Relativity	9 to 10 December, 2005	Sir Parshurambhaun College, Pune
(xi)	National Seminar on Recent Advance Physics & Mathematics	28 <sup>th</sup> January, 2006	Department of Physics, Electronics & mathematics, L. A. D. & Smt. R. P. College for Women, Nagpur
(xii)	Workshop on Latex	5 to 7 March, 2007	Departement of Mathematics, RTM Nagpur University, Nagpur
(xiii)	National Seminar on Current Trends in Chemical Sciences Research	28 <sup>th</sup> March, 2008	Shri Shivaji College of Arts, Commerce & Science, Akola
(xiv)	The Relevance of Dr. Babasaheb Ambedkar's Philosophy in the 21 <sup>st</sup> Century of India	31 <sup>st</sup> March, 2008	Shri Shivaji College of Arts, Commerce & Science, Akola
(xv)	State level seminar on recent trends in teaching basics and applied sciences	3 <sup>rd</sup> January, 2009	Phulsing Naik Mahavidyalaya, Pusad
(xvi)	State Level Seminar on Recent Trends in Mathematics & Their Applications	21 <sup>st</sup> March, 2009	Sardar Patel Mahavidyalaya, Chandrapur
(xvii)	National Seminar on Information Technology enabled Services-2009	11 <sup>th</sup> April, 2009	Shri Shivaji College of Arts, Commerce & Science, Akola
(xviii)	Total Solar Eclipse-09 Workshop	13 <sup>th</sup> & 14 <sup>th</sup> June, 2009	Post Graduate Department of Mathematics, Amravati University, Amravati
(xix)	National Conference on Recent Trends in Mathematics	18 <sup>th</sup> & 19 <sup>th</sup> Septeber, 2009	GVISH, Amravati

#### 14. Attendance in University Level Students Seminar:

Sr. No.	Name of the Seminar	Date	Place & Name of the sponsoring College
1	University Level seminar for Mathematics Students	1st February 2003	R. A. Arts, Shri S. K. Rathi Science College, Washim.
2	University Level Seminar for Mathematics Students	9 <sup>th</sup> October 2005	Organised by Sant GadgeBaba Amravati University Teachers Association & Jagdamba Mahavidyalaya, Achalpur

#### 15. Research Project Ongoing:

<b>Title of the Project</b>	<b>Funding Agency</b>	<b>Duration</b>	<b>Remarks</b>
Study of Cosmological models in Scalar Tensor Theory of Gravitation	University Grant Commission	16.1.2008 To 15.1.2010	

#### **16. Teaching Experience:**

<b>Courses Taught</b>	<b>Name of the College</b>	<b>Duration</b>
B. Sc.	Shri Shivaji College, Akola	15.9.1999 to up to date

#### **17. Innovations / Contributions in Teaching:**

##### **(a) Teaching Methods:**

- Other than lecture method, the department is making use of OHP and LCD projectors wherever possible. Also the students are using OHP and LCD projectors for delivering their seminars. Apart from unit tests and college test, frequent tests are taken on the articles taught in the classroom so that students study that articles. Assignments are given on the subject by staff members. Seminars are arranged to increase their self confidence and understanding in the subject.

##### **(b) Preparation of Resource Material:**

- The department provides paper wise & unit wise notes to the student as per prescribed syllabus and set of University question papers are also kept in the department.

##### **(c) Remedial Coaching:**

- Engaged classes for weaker students and minorities in the subject Mathematics sponsored by University Grant Commission in Shri Shivaji College, Akola.

##### **(d) Extension activities / Consultancy / Community works :**

- Worked as a Presiding Officer in Zilla Parishad & panchayat Samiti Elections in 2008
- Worked as a Presiding Officer in Maharashtra State Assembly Elections in 2009.
- Worked as a Presiding Officer in Loksabha Elections in 2009.

#### **18. Role in College activities:**

- Co-ordinator, Feedback Committee
- Member, Cycle Stand Committee
- Member, Examination Committee
- Member, Prize Distribution Committee
- Member, Admission Committee
- Member, Criterion V Governance & Leadership Committee

#### **19. Role in University activities:**

- Setter, Examiner, Moderator in B. Sc. I, II, III University Examinations of Sant Gadge Baba Amravati University, Amravati.

#### **20. Membership / participation in activities of national development :**

- Worked as a Presiding Officer in Zilla Parishad & panchayat Samiti Elections in 2008
- Worked as a Presiding Officer in Maharashtra State Assembly Elections in 2009
- Worked as a Presiding Officer in Loksabha Elections in 2009

#### **21. Any other information :**

- Member of organizing committee of "International Conference on Relativity-2005", organized by PGTD, Mathematics, SGB Amravati University, Amravati
- Member of organizing committee of "National Conference on Recent Trends in Mathematics", organized by Govt. Vidarbha Institute of Sciences & Humanities, Amravati, on 18th & 19th September, 2009