

## PERSONAL PROFILE



**Name** : DR. SAMADHAN LAXMAN MUNDE

**Department** : Mathematics

**Designation** : Assistant Professor  
(N.S.S. Programme Officer)

**Academic Qualification** : M. Sc. , M. Phil. , Ph. D. (Mathematics)

**Cellphone** : 7498666477

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**Specialization** : Relativity, Differential Geometry, Operations Research

**Area of Research** : Relativity and Cosmology, Alternative Theories of Gravitation

**Teaching Experience** : UG :- 05 Years , PG :- 10 Years

**Research Experience** : 12 Years

**No. of Research Papers Published** : 13 (International Journals)

**National / International Conferences Attended** : 12 [ National (8) , International (4) ]

**Research Oriented Workshop/Seminar** : 19 [ National (3) , State (3) , University (13) ]

**Invited Talk** : 04

**Orientation / Refresher Courses Completed** : 03

**Project Fellow** : A full time U.G.C. “Junior Research Project Fellow” under the guidance of Prof. Dr. K. S. Adhav in “Major Research Project (2012-15)” which was sanctioned by University Grant Commission (U.G.C.) New Delhi.

**Experience in NSS** : 2017-18 onwards

**Link for Activities taken under NSS** : <https://www.rltsc.edu.in/nss/>

**Hobby** : Teaching, Social Work and Extension activities (In Campus and Off Campus) through NSS Platform , Creating Social bonding’s for welfare of needy people and society.

- Positions Held** :
- 1) N.S.S. Programme Officer (Coordinator).
  - 2) Member of Blood Donation Committee.
  - 3) Member of Election Committee.
  - 4) Member of M.Sc. Admission Committee.
  - 5) Member of Criteria-VI (Governance, Leadership and Management).
  - 6) Member of Tree Plantation Committee.
  - 7) In-charge Guardian Teacher.

- Other Significant Contribution** :
- 1) Worked as a member of the organizing committee for the District Level Youth Parliament Workshop in 2018-19.
  - 2) House-hold Survey and Village survey of 5 Adopted Villages under Unnat Bharat Abhiyan has been completed. More than 800 families survey was done.
  - 3) The Unit worked hard as a COVID Task force during the Pandemic.
  - 4) Many Health Camps were organized in past 5 years.
  - 5) Every year the Blood Donation Camp were organized on 24th December.
  - 6) Four Residential NSS camps are organized and successfully completed at village Sonala during the session 2017-18 and in Aapoti khurd during the session 2018-19, 2019-20 and 2021-22.
  - 7) Plantation Drive from past 5 years at Shivapur, in Malkapur, Akola and every year in collaboration with Forest Office Akola.

### International Research Papers Publications : 13

Sr. No.	Title of Paper	Authors	Journal Name	Publisher	Vol. No. (Issue No.)	Page No.	Year
01	Bianchi type-VI <sub>0</sub> cosmological models with anisotropic dark energy.	K. S. Adhav, A. S. Bansod, S. L. Munde, R. G. Nakwal	Astrophysics and Space Science	Springer (Scopus)	Vol.332, Issue 2	497 to 502	2011
02	Higher dimensional Bianchi type-V cosmological models with perfect fluid and dark energy	K. S. Adhav, A. S. Bansod, S. L. Munde, M. S. Desale	International Journals Theoretical Physics	Springer (Scopus)	Vol.50, Issue 8	2573 to 2581	2011
03	Kaluza-Klein universe in $f(R, T)$ gravity with constant deceleration parameter.	K. S. Adhav, S. L. Munde, A. S. Bansod	International Conference on Mathematical Sciences	Proceeding of International Conference on Mathematical Sciences	Proceeding of "International Conference on Mathematical Sciences" 28-31 Dec-2012, Nagpur		2012
04	Vacuum solutions of Bianchi types-I and V models in $f(R)$ gravity with a special form of deceleration parameter.	D.R.K. Reddy, K. S. Adhav, S. L. Munde	International Journal of Science and Advanced Technology	--	Vol.4, No 3	23 to 33	2014

05	Anisotropic Cosmological Models in $f(R)$ Gravity with Quark & Strange Quark Matter and Special Form of Deceleration Parameter.	K. S. Adhav, G. B. Tayde S. L. Munde	African Review of Physics” International journals	African Physical Society (Scopus)	Vol.09	381 to 389	2014
06	Kantowski-Sachs cosmological model with quark & strange quark matter in $f(R)$ theory of gravity.	K. S. Adhav, A. S. Bansod, S. L. Munde	Open Physics formerly Central European Journal of Physics	Walter de Gruyter Open (Scopus)	Vol.13	90 to 95	2015
07	Interacting Dark Matter and Holographic Dark Energy in Bianchi Type-V Universe.	K. S. Adhav, S. L. Munde, G. B. Tayde V. D. Bokey	Astrophysics and Space Science	Springer (Scopus)	Vol.359, Issue 1, 24	1 to 8	2015
08	Early Decelerating and Late Time Accelerating Bianchi Type-V Cosmological Model with Quadratic Equation of State in General Relativity.	K. S. Adhav, P. R. Agrawal, S. L. Munde, M.A.Purandare	Proceeding of “International Conference on Frontiers in Mathematics-2015”, Guahati university	Proceeding of “International Conference on Frontiers in Mathematics-2015”, Guahati university	Proceeding of “International Conference on Frontiers in Mathematics-2015”, Guahati university	82 to 86	2015
09	Kaluza-Klein Universe with Interacting Dark Matter and Holographic Dark Energy in General Relativity.	K. S. Adhav, V. D. Bokey, A. S. Bansod, S. L. Munde	Amravati University Research Journal	Amravati University Research Journal	Special Issue of “International Conference on General Relativity-2015”, Amravati university,	14 to 19	2015
10	Interacting Dark Fluid in Anisotropic Universe with Dynamical Deceleration Parameter.	K. S. Adhav, V. D. Bokey, A. S. Bansod, S. L. Munde	International Journals Theoretical Physics	Springer (Scopus)	Vol.55, Issue 10	4384 to 4392	2016
11	Kaluza-Klein Cosmological Model with Quark and Strange Quark Matter in $f(R, T)$ Gravity.	S. L. Munde	International Journal of Advanced Research	A Peer Reviewed Open Access, Cross Ref Indexed Journal	Vol.09, Issue 04	264 to 272	2021
12	Bianchi Type-III Cosmological Model with Special Form of Deceleration Parameter in $f(R, T)$ Gravity.	S. L. Munde	International Journal of Creative Research Thoughts	International Peer Reviewed & Refereed Journals, Open Access Journal	Vol.09, Issue 04	3659 to 3665	2021

13	Kaluza-Klein Universe in $f(R, T)$ Gravity with Constant Deceleration Parameter in Presence of Quark Matter.	S. L. Munde	International Journal of Science and Research	Refereed & Double Blind Peer Reviewed Journal, Open Access.	Vol.10, Issue 04	852 to 856	2021
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### Participation in Research Oriented National / International Conferences : 12

Sr. No.	Conference	Place	Date
01	Presented Research Paper entitled as "Anisotropic Bianchi Type-III Cosmological Model with Quark Matter in $f(R, T)$ Gravity" in National e-Conference on Recent Mathematical Innovation & Skills in 21 <sup>st</sup> Century.	Department of Math's; IQAC, S.G.B.A.U. Amravati and R.D.I.K & K. D. College, Badnera (Amravati)	27 March 2021
02	Participated in "International e-Conference on "Recent Trends in Advancement of Mathematical and Physical Sciences".	Deva Nagri College, Meerut	22 to 23 May 2020
03	Attended "National Conference on Multidisciplinary Research in Science and Technology for Health Life style Management".	Shri R.L.T. College of Science, Akola	28 Jan. 2020
04	Attended "National Conference on Recent Advances in Physical and Mathematical Sciences.	Shri Shivaji College of Arts , Sci. & Com., Akola	18 Jan. 2020
05	Presented a research paper in "National Conference on Recent Advances in Mathematical Sciences-2016 (NCRAM-2016)".	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati	17 to 18 June 2016
06	Presented a research paper in "International Conference on General Relativity-2015 (ICGR-2015)"	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati	25 to 28 Nov. 2015
07	Presented a research paper in "International Conference on Recent Advances in Mathematics (ICRAM 2014)".	Department of Mathematics, R.T.M. Nagpur University, Nagpur	20 to 23 Jan. 2014
08	Attended the "National Conference on Frontiers of Mathematics"	Department of Mathematics, Kamla Neharu Mahavidyalaya, Nagpur	22 March 2013
09	Presented a research paper in "National Conference on Mathematical Sciences (NCMS-2013)"	Department of Mathematics, Shri. Dr.R.G.Rathod Arts & Science College, Murtizapur	18 to 19 Jan. 2013
10	Presented a research paper in "International Conference on Mathematical Sciences (ICMS-2012)"	Department of Mathematics, Shri Shivaji Education Society's Amravati Science College, Congress Nagar, Nagpur	28 to 31 Dec. 2012
11	Attended "National Level Conference on Developing Frontiers of Physics, Astronomy & Space Sciences (DFPASS-2010)"	Department of Physics & Mathematics, Shri. R.L.T. College of Science, Akola	24 to 25 Sept. 2010
12	Attended "National Conference on Recent Trends in Mathematics (NCRMT-2009)"	Department of Mathematics, Govt. Vidarbha Institute of Science and Humanities, Amravati	18 to 19 Sept. 2009

## Participation in Research Orientation Programs / Seminar / Workshops / Symposium : 23

Sr. No.	Workshop / Seminar / Symposium	Place	Date
01	Delivered Guest Lecture in Taluka Level Science Exhibition on Research.	Sharda Vidyaniketan at Malkapur (Akola)	10 Sept. 2022
02	Delivered Guest Lecture in University Level Workshop on Research in Mathematics.	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati	6 August 2022
03	Participated in MS-DEED Level -1 Online Workshop on Introduction to innovative pedagogies for UG Teachers.	Indian Institute of Science Education and Research Pune (IISER, Pune)	14 to 16 Dec. 2021
04	Participated in an Online National Level Awareness Program on "Fundamental Research".	Indira Gandhi Kala Mahavidhyalaya, Ralegaon	28 May 2021 to 04 June 2021
05	Participated in a "State level workshop on soft skills training for Mathematical sciences".	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati	15 to 16 March 2019
06	Participated in a "State level seminar on my health, my responsibility : Complementary to medicine & health care".	Shri R.L.T. College of Science, Akola	28 Feb. 2019
07	Delivered Invited talk in "Refresher Course" on Disaster Management.	UGC – HRDC , Sant Gadge Baba Amravati University, Amravati	14 Dec. 2018.
08	Participated in One day National level seminar cum Workshop on Art of Perfume & Soap Making (skill development & self employment) .	Shri R.L.T. College of Science, Akola	08 Sept. 2018
09	Worked as a "Subject Expert" in P G University level Seminar Competition on "Analysis"	Shri Shivaji College of Arts , Sci. & Com., Akola	10 March 2018
10	Worked as a "Subject Expert" in U G University level Seminar Competition on "Differential Equation" .	Vidya Bharati College Amravati	10 Feb. 2018
11	Worked as a "Subject Expert" in U G University level Seminar Competition on "Advanced Calculus".	Mahatma Fule Arts, Com. & Sci. College, Warud	23 Sept. 2017
12	Delivered a talk in "National Level Workshop on General Relativity & Cosmology".	Department of Mathematics, Kalyan P. G. College, Bhilainagar, Chhattisgarh	08 to 09 Feb. 2016
13	Participated in "University Level Workshop on Mathematics Syllabi".	Department of Mathematics, RDIK & KD College Badnera (Rly)	15 March 2015
14	Participated & worked as a subject expert in "University P. G. Level Seminar Competition" on the subject "Measure & Integration Theory".	Department of Mathematics, RDIK & KD College Badnera (Rly)	14 March 2015
15	Participated in the "University Level Research Oriented Workshop on Mathematics".	Shri Dnyaneshwar Maskuji Burungale Science & Arts College, Shegaon and Department of Mathematics S.G.B.A.U. Amravati	10 to 11 Jan. 2015
16	Participated in the "Seminar Competition" on the subject "Algebra" .	Mungasaji Maharaj Mahavidyalaya, Darwha and Department of Mathematics S.G.B.A.U. Amravati	16 Feb. 2014
17	Participated in the "Special Training Programme for Academic Counselors through teleconference".	IGNOU Nagpur Regional Centre	19 Oct. 2013
18	Worked as a subject expert in "University Level Seminar Competition" for Post Graduate students on the subject "Complex Analysis".	Shri. R.L.T. College of Science, Akola	9 March 2013
19	Participated in the "University Level Research Oriented Workshop for Mathematics Teachers & Research Students on Theory of Relativity".	Department of Mathematics S.G.B.A.U. Amravati	09 to 10 Feb. 2013

20	Participated in the “Symposium on Number Theory and Related Topics”.	Shantaram Janorkar Foundation of Mathematics, Mahan	15 to 16 Jan. 2013
21	Participated in the “University Level Research Oriented Workshop”.	Department of Mathematics S.G.B.A.U. Amravati	08 Sept. 2012
22	Participated in the “Capacity Building Initiative Teacher’s Training Program”.	S.G.B.A.U. Amravati & G.H. Raisoni Academy for Human Excellence an ISO 9001: 2008 Certified Training Academy	14 to 15 July 2012
23	Participated in the “U.G.C. Sponsored State Level Seminar on Expanding Wings of Mathematics in the Field of Science & Social Sciences”.	Department of Mathematics, Shri. R.L.T. College of Science, Akola	4 Jan. 2010

### Orientation / Refresher / FDP Course Completed : 03

Sr. No.	Name of the Course	Place	Duration	Sponsoring Agency
1	143 <sup>rd</sup> Orientation Course for Programme Officer of NSS”	Empanelled Training Institute, Ahmednagar College, Ahmednagar	24-08-2019 to 30-08-2019	GOI , Ministry of Youth Affairs & Sports, New Delhi
2	46 <sup>th</sup> Orientation Programme Course	UGC-HRDC, S. G. B. Amravati University, Amravati	11-09-2019 to 01-10-2019	UGC – HRDC, Delhi
3	Refresher Course in Basic Sciences	UGC-HRDC, S. G. B. Amravati University, Amravati	21-12-2020 to 02-01-2021	UGC – HRDC, Delhi
4	MS-DEED Level -1 Online Workshop on Introduction to innovative pedagogies for UG Teachers	Indian Institute of Science Education and Research Pune (IISER, Pune)	14 – 12 – 2021 to 16 – 12 – 2021	Maharashtra State Faculty Development Academy

**Dr. Samadhan L. Munde**  
 [ M.Sc., M.Phil., Ph.D. (Maths) ]  
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 Department of Mathematics ,  
 Shri R. L. T. College of Science, Akola