Department of Mathematics.
RESUME OF MS. SHILPA W. SAMDURKAR

- **Name** : Dr. Shilpa W. Samdurkar (Pahade)

- **Father`s Name** : Shri. Wasudeo L. Samdurkar

- **Date of Birth** : 21/08/1976

- **Date of Appointment** : 31st July 2013

- **Caste Category** : Kalal (OBC)

- **Gender** : Female

- **Nationality** : Indian

- **Marital Status** : Married

- **Languages Known** : Marathi, Hindi and English

- **Permanent address** : 201,2nd Floor, Shri krushna Vihar ,
  Borkute- Patil Lay out,
  Narendra Nagar, Nagpur-15

- **Mobile No.** : 9765406869 / 9545624000
- **E-mail** : shilpasamdurkar@gmail.com,
  rpahade2008@rediffmail.com

- **Designation** : Assistant Professor

- **Qualification** : M.Sc.(Mathematics) I Merit , Ph.D.

Sr.No.	Degree	Year of passing	Board / University	Percentage
1	S.S.C.	1992	Amravati Board	81.28 %
2	H.S.S.C.	1994	Amravati Board	57.17 %
3	B.Sc.	1997	Amravati University	63.03 %

4	M.Sc.	1999	Amravati University	68 % I merit
5	Ph.D	2007	Nagpur University	

- **Specialization :**

  General Theory of Relativity, Cosmology and Higher Dimensional Cosmological Models

- **Teaching Experience : 18.5 years**

Sr. No.	Name of the College	Designation	Year	Teaching experience
1	Vidarbha Mahavidyalay , Amravati	Adhoc Lecturer	Sept 2000-Sept 2001	1 year
2	G.H.Raisoni College of Engineering, Nagpur	Adhoc Lecturer	Sept 2001-Sept 2003	1.4 year
3	Priyadarshini Institute of Engineering and Technology, Nagpur	Assistant Professor **Regular**	16th Sept.- 30 July 2013	9.10 years
4	Vidya Vikas Arts, Commerce & Science College, Samudrapur, Dist. Wardha	Assistant Professor **Regular**	31st July 2013 to Till date	8.5 years

- **Academic Progress :**

Refresher Course Attended	Orientation Course Attended	Workshop Attended	STTP Attended	Seminar Attended
03	01	07	02	04

Conference Attended		Paper Presented in Conference	
International	**National**	**International**	**National**
06	06	05	05

- **Administrative Experience :**

1) As a Head of Applied Mathematics,PIET   : 16th Sept 2003 - 30th July 2013   (9.10 years)

2) As a First Year Co-ordinator   : 2009-2012   (3 years)

3)University Exam Incharge , PIET(OIC-2010) : Sum 2010

4) Head of Applied Mathematics, VVSC   : 31st July 2013 – till date 2019   (8.5 years)

- **Research Publication   : 23**

International Journal   : 17
National Journal   : 03
Conference Proceedings   : 03

International Journal

1)"**Bulk Viscous Kantowski-Sachs Space Time with Domain Walls in General Theory of Relativity**" International Journal of Advances in Management, Technology and Engineering Sciences,Vol.1,37-41, 2012.

2) **"Bianchi Type VI Cosmological Models with Stiff fluid and Time Varying G and Λ"** Asian Journal of Current Engineering and Maths, May-June(2013),230-234, ISSN No.2277-4920

3) **"Bianchi Type I Viscous Cosmological Models with Varying Λ in the presence of Electromagnetic field"** IOSR Journal of Mathematics(IOSR-JM) e-ISSN:2278-5728,p-ISSN:2319-765X,PP 08-13,2013

4) **"Shear free kaluza-klein cosmological model with variable G and Λ in the presence of polytropic bulk viscous fluid"** International Journal of Mathematical Archeive ISSN:2229-5046, Vol 6, Issue 3 (2015) pp 212-217. Impact Factor: 2.95

5) **"Kantowski-Sachs String Cosmological Model with Bulk Viscosity and Time Dependent Λ term in General Relativity"** International Journal of Scientific & Research ISSN:2319-7064,Vol 4, Issue 5 (2015) pp 422-425, Impact Factor: 4

6) **"Bianchi type I Cosmological Model with Varying Grand ^ in General Relativity"** International Journal of Emerging Trends in Engineering and Basics Sciences (IJEEBS)Vol 2 issue 2 pp 30-36, 2015

7) **"General Class of Kantowski-Sachs Cosmological Models with varying equation of State parameter"** Clifford Analysis, Clifford Algebras and Their Applications,CSP-Cambridge, UK;I&S-Florida, USA,2016

8) **"Bianchi Type VI   Cosmological Model with Quadratic form of Time Dependent Λ Term in General Relativity"** Global Journal of Science Frontier Research:A Physics & Space Science,**Vol 16** Issue 6 Version 1.0 year 2016,Type: Double Blind Peer Reviewed International research Journal,Publisher: Global Journals Inc. (USA),Online ISSN: 2249-4626 & Print ISSN : 0975-5896

9)**"Effect of Variable Deceleration Parameter and Polytropic Equation of State in Kantowski– Sach Universe"** Bulg.J.Phys.45 (2018)313-321.

10) **" Bianchi Type VI Cosmological Model with Dynamical Cosmological parameters G and   in the presence of Viscous Stress"**IJSRSET, **6 (1)** print ISSN:2395-1990 , online ISSN 2394-4099, 2019.

11) **"Study of Linear Equation of State with Time Dependent parameters $\gamma(t)$ And $\Lambda(t)$ in Bianchi Type I Universe"** Research Journey-Mathematics,**110(F)** (2019), ISSN--2348-7143

Impact factor: 6.261

12) **"Kantowski-Sachs String Cosmological Model with varying** Λ **in the presence of bulk viscous fluid"** Bulg.J.Phys.46 (2019) 151-161

13) **"Plagiarism: Copying Words Without Copying Ideas"** Our Heritage , vol-68 special issue -23 pp 283-290

14) **"Bianchi type-I bulk viscous cosmological model with inhomogeneous equation of state"** Journal of Physics: Conference Series 1913 (June 2021) 012106
Scopus I.F. – 0.55

15) **"Effect of Perfect Fluid and Modified Chapygin Gas with G and lambda in Kantowshi – Sach Universe"** PENSEE Vol. 51, Issue 4, (May 2021)pp : 395-402 I.F. - 0.01

16) **"Study of Generalized Cosmic Chaplygin Gas in the Presence of Linear Form of the Bulk Viscosity in Bianchi Model"** International Journal of All Research Education and Scientific Methods (IJARESM), Volume 9, Issue 5, May -2021, pp : 2634-2642

17) **" Bulk Viscous Bianchi Type-III Cosmological Model with Modified Takabayasi String in the Presence of Varying** Λ **,** Journal of Dynamical Systems and Geometric Theories,
Vol. 19(1) 29 sept 2021. pp. 95-112. Scopus
DOI : 10.1080/1726037X.2021.1978195
18)

National Journal

1) **"Inhomogeneous Cosmological Model in (4+n) Dimentional Wessons Theory of Gravitation"** Bulletin of Pure and Applied Sciences., **23E** (No.1) , pp 105-113.
2004

2) **"Cosmological Models with Variable Cosmological Term in Kaluza-Klein Theory of Gravitation"** Journal of Indian Acad.Math., **27** (No.2), 307-315. 2005

3) **"Inhomogeneous String Cosmological Model in five Dimentional Space-Time"** Vidarbha Journal.,2, pp 1-10. 2007

PROCEEDINGS

1) **"Higher Dimensional Cosmological Model in Space-Time-Mass (STM) Theory of Gravitation"** Proc. Einstein Found.Int.**12**.,pp 114-118. 2001

2) **"The Effect of Bulk Viscosity on Bianchi Type V Cosmological Models with varying ^ in General Relativity"** Proceedings Published by International Journal of Computer Applications, pp 1-6. 2012

3) **"Five Dimensional Bulk Viscous Cosmological Models with varying ^ in General Relativity"** Vidarbha Journal.,2, pp 1-10. 2007

- **Papers Presented (Seminar/National/International)   : 11**

International Conf .   : 05
National Conf.   : 05
Seminar   : 01

S.R.	TITLE OF THE PAPER	INTERNATIONAL CONF.	ORGANIZED BY
1	An Inhomogeneous String Cosmological Model with Bulk Viscosity in Kaluza-Klein Theory of Gravitation	International Conference on RELATIVITY-2005	Deptt. of Mathematics Amravati University Amravati Date: 11th – 14th Jan 2005
2	Kantowski Sachs Cosmological Model with constant and variable deceleration parameter in general relativity	International conferences on Mathematical Sciences 2012	ICMS-2012 Deptt. of Mathematics Shri.Shivaji Science College, Nagpur 28-31 Dec 2012
3	Bianchi Type I Viscous Cosmological Models with Varying ^ in the presence of Electromagnetic field	International conferences on	Anjuman College of Engineering, Sadar, Nagpur 8-9 Jan 2014
4	Anisotropic Kantowski-Sachs String Cosmological Models with Varying Lambda in the presence of Bulk Viscous fluid	International Conference on Mathematics	Department of Mathematics, University of Kerala, Trivandrum Nov 26-28, 2015
5	Kantowski-Sach Viscous string cosmological model with varying Lamda	International Conference on Advances in Physical, Chemical & Mathematical Sciences	Department of Physics, Chemistry, Mathematics, Statistics, Computer Science & LIT, RTMNU Nagpur 13-16 Feb 2020
S.R.	TITLE OF THE PAPER	NATIONAL CONF.	ORGANIZED BY
1	Bianchi Type VI Cosmological Models with Time Varying G and ^ in the presence of Bulk Viscous Fluid	Recent Trends in Basic Sciences	Dept. of Mathematics Shri.Dr.R.G. Rathod Art's and Science College Murtizapur, District:Akola 18-19 Jan 2013
2	Five Dimensional Bulk Viscous Cosmological Models with varying ^ in General Relativity	National conferences on Mathematical Sciences 2014	Govt. Engineering College Amravati. 8-9 May 2014
3	Bianchi type I Cosmological Model with Varying G and ^ in General Relativity	NCOAT-2015	Priyadarshini Institute of Engineering and Technology, Nagpur 28-02-2015
4	Bianchi Type Cosmological Model of the Universe with Linear equation of state	National conference	Dept. of Mathematics IIT, Roorki Date: 12-10-2018

5	Study of Linear Equation of State with Time Dependent parameters $\gamma(t)$ And $\Lambda(t)$ in Bianchi Type I Universe	Recent Trends in Basic Sciences	Vidya Bharati College, Amravati 1-2 Feb 2019
S.R.	**TITLE OF THE PAPER**	**SEMINAR**	**ORGANIZED BY**
1	Inhomogeneous String Cosmological Model in five Dimentional Space-Time	National Seminar	Deptt. of Mathematics R.T.M.N.U. Nagpur Date: 21-8-2004

• **Book Publications :   08**

S. N.	Author	Title	Publisher	ISBN No.	Cost
1	Dr.(Mrs) Shilpa W. Samdurkar(Pahade) And N.K.Lamba	Applied Mathematics –I	Techmax Publication , Pune(M.S.) 2013 July	978-93-5077-316-1 (2013)	195/-
2	Dr.(Mrs) Shilpa R. Pahade	Engineering Mathematics	Technostudy publication, Latur (M.S.) 2013	-	150/-
3	Dr.(Mrs) Shilpa R. Pahade	Basic Mathematics	Technostudy publication, Latur (M.S.) 2013	-	150/-
4	Dr.(Mrs) Shilpa R. Pahade and Mr.N.K.Mohjare	Applied Mathematics	Technostudy publication, Latur (M.S.) 2013	-	250/-
5	Dr.(Mrs) Shilpa R. Pahade	Applied Mathematics-II	Nikita Publication, Latur(MS) 2015		
6	Dr.(Mrs) Shilpa R. Pahade	Applied Mathematics-I	Nikita Publication, Latur(MS) 2015		250/-
7	Dr.(Mrs) Shilpa R. Pahade	MATHEMATICS (Paper I & II)	NPH Publications 2015 July		250/-
8	Dr.Rajni A. Anturkar Dr.Manjusha Hajare Dr. Rupali T. Wanjari Dr.Shilpa W.	University Mathematics Volume II (A complete Text	Alliance & Co.	978-819517-725-7	250/-

	Samdurkar	Book for B.Sc. Semester –II)		(2020-21)	

- ## Special Achievement :

A) **Ph.D Supervisior: 01 Student awarded Ph.D.**

University	No	No.of students registered for Ph.D	Topic
Rashatrasant Tukadoji Maharaj Nagpur University , Nagpur	No.Ph.D.(Cell)/RRC/ Guide/Sci./3614/B/65 3 Year:2008	01: Ms. Shoma Sen Dated:Jan 2012 Notification : 9-07-2018 Awarded 19 Jan-2019	Some Investigation in Bianchi Models and Kantowski-Sach Models in General Theary of Relativity

B) **Speaker for conducting session at I.S.T.E : 02**

Programe	Topic	Venue
An approach towards Research in Engineering & Technology	Optimization of Models	1) Indira College of Engineering & Management , Pune (28-04-2008 to 2-05-2008)
	Optimization of Models	2) Priyadarshini College of Engineering, Nagpur (23 -06-2008 to 5 -07-2008)

C) **As a Judge {Technical Session (Paper Presentation) }: 03**

S.N.	Event	Topic	College
1	Tech-Zenith Inter-Collegiate Competition (Paper Presentation)	"Applications of Integrals, Vectors and Matrices"	Priyadarshini College of Engineering, Nagpur 28-02-2015 (2014-15)
2	Inter-Collegiate Competition (Paper Presentation)	Differential Equations	Sant Gadge Maharaj Arts, Commerce and Science College,

S.N.	Topic	Presentation	Venue
3	International Conference on Advances in Physical, Chemical & Mathematical Sciences	Paper Presentation Session	Department of Physics, Chemistry, Mathematics, Statistics, Computer Science & LIT, RTMNU Nagpur 13-16 Feb 2020

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| | | | Hingna (Nagpur) 5-04-2016 (2015-16) |

D) **Guest Lecture Delivered: 05**

S.N.	Topic	Presentation	Venue
1	Differential Equations and its Applications	PPT-Presentation	Dr.Ambedkar College, Dekshabhumi, Nagpur Dated: 10-03-2015 (2014-15)
2	Differential Equations and its Applications	PPT-Presentation	Sant Gadge Maharaj Arts, Commerce and Science College, Hingna (Nagpur) 5-04-2016 (2015-16)
3	Group Theory	Black Board Presentation	Matoshri Ashatai Kunawar Arts, Commerce and Science Womens College, Hinganghat. Dist: Wardha (25 oct 2018)
4	Group Theory	Online Google Meet	Shri Sant Gadge Maharaj Mahavidyalaya, Hingna , Nagpur (2020-21)
5	Triple Integral	Online Google Meet	Ambedkar College, Deekshabhumi, Nagpur (2020-21)

- **Workshop Organized: 02**

S.N.	Int/National/State	Topic	Venue	Day	Date
1	State level	Project Writing and Drafting and Intellectual Property Rights	Vidya Vikas Arts,Commerce and Science College, Samudrapur	One day	21-08-2021
2	State level	Women Awareness Programme	Vidya Vikas Arts,Commerce and Science College, Samudrapur	One day	1-10-2021

- **Contributions**

University Level
1)As an expert of   UGC - interview committee
2)As a Member of Moderation (Que) Committee (B.E. & B.Tech)
3)Paper Setting (B.Sc. , B.E. & B.Tech)
4)Member of   LEC (2018)
          College Level
1)Coordinator-- Lifelong Learning and Extension
2)Member of NSS
3)Member of Steering Committee
4)Member of NAAC-Research Committee
5)Member of Discipline committee
 6) Organized State level Workshop-IPR

- **Collaboration** :   Department of Mathematics, R.T.M.N.U. Nagpur (2012-2019)
- **Linkages**   :   Reviewer of one research paper   (2018-19)
                           Journal of Dynamical System and Geometric Theories

I do here by confirm that the information given in this form is true to do the best of my knowledge and belief.

Date :   21 / 10 / 2021   Sincerely yours

                                        (**Dr. Shilpa W. Samdurkar**)
                                     Head , Department of Mathematics

Vidya Vikas Arts, Commerce and
Science College, Samudrapur,
Dist. Wardha