

# Dr. Shravan Kumar Pandey

M.Sc., M. Phil., Ph.D., MPSET (Mathematics)

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A.P.S. University, Rewa-486003 (M.P.)



## Personal Profile:

- **Father's Name** : Shri Govind Prasad Pandey
- **Mother's name** : Smt. Rukminee Devi Pandey
- **Gender** : Male
- **Marital Status** : Married
- **Spouse Name** : Dr. Giteshwari Pandey
- **Category** : General
- **Nationality** : Indian

## Teaching Experience: 16 years

Post Held	Name of Institution	Period		Nature of Duties
		From	To	
Assistant Professor	Department of Mathematical Sciences, A.P.S. University, Rewa (M.P.)	10/02/2024	Till Date	Academic and Administration
Guest Lecturer	Department of Mathematical Sciences, A.P.S. University, Rewa (M.P.)	01/03/2008	09/02/2024	Teaching and Research
Guest Lecturer	Department of Computer Application	July 2008	Sep.2016	Teaching and Research
Assistant Professor	Saraswati Science College, Rewa	July 2009	Dec.2010	Teaching and Research

**MPSET Award:**

<b>S. No.</b>	<b>Name of Award</b>	<b>Awarding Agency</b>	<b>Accredited by</b>	<b>Year of Award</b>	<b>Certificate No.</b>
<b>01.</b>	<b>SET-2018</b>	<b>MPPSC</b>	<b>UGC</b>	<b>2019</b>	<b>1209/2018</b>

**Academic Qualifications:**

<b>Examinations Passed</b>	<b>Board/ University</b>	<b>Year of Passing</b>	<b>Subjects/ Specialization</b>	<b>Marks Obtained</b>	<b>Total Marks</b>	<b>Division / Grade</b>	<b>Percentage of Marks</b>
High School (10 <sup>th</sup> )	Board of Secondary Education Madhya Pradesh, Bhopal	2000	Hindi, Sanskrit, English, Mathematics, Science, Social Science	323	500	I	64.6%
Higher Secondary (12 <sup>th</sup> )	Board of Secondary Education Madhya Pradesh, Bhopal	2002	Hindi, English, Physics, Chemistry Mathematics	324	450	I	72%
B.Sc.	A.P.S. University, Rewa (M.P.)	2005	Physics, Chemistry Mathematics, Foundation Courses	1080	1800	I	60%
M. Sc.	U.T.D., A.P.S. University, Rewa (M.P.)	2007	Mathematics	1336	1600	I	83.5%
M. Phil.	U.T.D., A.P.S. University, Rewa (M.P.)	2008	Mathematics	8.74	10	A	87.4%
Ph. D.	U.T.D., A.P.S. University, Rewa (M.P.)	2013	Mathematics	173	200	I	86.5%

### **Details of Ph.D. Thesis:**

- **Thesis Title** : “**Certain Investigations on Contact Metric Manifolds and their Submanifolds**”
- **Date of Notification of Ph.D. Degree and Notification No. :**  
**No./Acad./Shodh/2013/2310 Dated 13/08/2013**

### **Research Interests:**

- **Differential Geometry, Riemannian and Pseudo Riemannian Geometry with applications to Relativity.**

### **Publications:**

- **Papers Published in Journals- 38**
- **Book Chapters- 05**
- **Seminar/Conferences/Workshops/Invited Talks- 14.**

### **Courses Taught:**

- **At Post Graduate Level:** Advanced Abstract Algebra, Complex Analysis, Numerical Methods, Discrete Mathematics, Differential Geometry, Riemannian Geometry, Operations Research, Tensor Analysis.
- **At Under Graduate Level:** Calculus, Modern Algebra, Differential Equation, Discrete Mathematics, Numerical and Statistical Methods, Complex Analysis, Real Analysis, Linear Algebra.

## List of Publications of Dr. S. K. Pandey

1. Second Order Parallel Tensors On LP-Sasakian Manifolds,  
R.N.Singh, **S.K.Pandey** and Giteshwari Pandey,  
Journal of International Academy of Physical Sciences, 13(4), 383-388, 2009.
2. On a Type of Kenmotsu Manifolds,  
R.N.Singh, **S.K.Pandey** and Giteshwari Pandey,  
Bulletin of Mathematical Analysis and Applications, 4(1), 117-132, 2012.
3. On Generalized Sasakian Space Forms,  
R.N.Singh and **S.K.Pandey**,  
The Mathematics Student, 81(1-4), 205-213, 2012.
4. On the Conharmonic Curvature Tensor of Generalized Sasakian Space Forms,  
U.C.De, R.N.Singh and **S.K.Pandey**,  
ISRN, Geometry, Vol. 2012, Pages 14, 2012. doi:10.5402/2012/876276.
5. On Semi-Symmetric Non-Metric Connections in a Co-Symplectic Manifold,  
R.N.Singh, **S.K.Pandey** and Giteshwari Pandey,  
Journal of International Academy of Physical Sciences, 16(1), 27-42, 2012.
6. Some Curvature Properties of a Semi-Symmetric Metric Connection in a Kenmotsu Manifold,  
R.N.Singh, Giteshwari Pandey and **S.K.Pandey**,  
Bull. Cal. Math. Soc., 105(1), 49-58, 2013.
7. On a Semi-Symmetric Metric Connection in an SP-Sasakian Manifold,  
R. N. Singh, **S.K.Pandey** and G. Pandey,  
Proc. Natl. Acad. Sci. India, Sect. A, Phys. Sci., 83(1) , 39-47, 2013.
8. On the M-Projective Curvature Tensor of N(k)-Contact Metric Manifolds,  
R.N.Singh and **S.K.Pandey**,  
ISRN, Geometry, Vol. 2013, Pages 6, 2013. doi:10.1155/2013/932564.
9. On  $(k,\mu)$ -Contact Metric Manifolds,  
R.N.Singh, **S.K.Pandey** and Giteshwari Pandey,  
International Journal of Mathematical Archive, 4(6), 273-286, 2013.
10. On  $W_2$ -Curvature Tensor in a Kenmotsu Manifold,  
R.N.Singh, **S. K. Pandey** and Giteshwari Pandey,  
Tamsui Oxford Journal of Information and Mathematical Sciences, 29(2), 129- 149,  
2013.

11. On the C-Bochner Curvature tensor of generalized Sasakian Space Forms,  
R.N.Singh and **Shravan K. Pandey**,  
J. Tensor Society,7, 17-28, 2013.
12. On Quarter-Symmetric Metric Connection in an Indefinite Sasakian Manifold,  
R.N.Singh, **S. K. Pandey** and K.Tiwari,  
Journal of International Academy of Physical Sciences,17(3),255-275,2013.
13. On Kenmotsu Manifolds,  
R.N.Singh, M. K. Pandey and **S. K. Pandey**,  
The Mathematics Student, 83 (1-4),205-219, 2014.
14. On a Semi-Symmetric Metric Connection in an  $(\epsilon)$ -Kenmotsu Manifold,  
R. N. Singh, **S.K. Pandey**, G. Pandey and K. Tiwari,  
Communications of the Korean Mathematical Society,29(2),331-343,2014.
15. On a Quarter-Symmetric Metric Connection in an LP-Sasakian Manifold,  
R. N. Singh and **Shravan K. Pandey**,  
Thai Journal of Mathematics, 12(2), 357-371, 2014.
16. On a Semi-Symmetric Non-Metric Connection in an Indefinite Para Sasakian Manifold,  
**S.K. Pandey**, G.Pandey, K.Tiwari and R.N.Singh,  
Journal of Mathematics and Computer Science, 12(2), 159-172, 2014.
17. On  $W_3$ -Curvature Tensor in a Kenmotsu Manifold,  
**S.K.Pandey**,  
Vindhya Bharti, 14(I), 48-53,2017.
18. Ricci Solitons in an  $(\epsilon)$ -Kenmotsu Manifold admitting Conharmonic Curvature Tensor,  
**S.K.Pandey**, R.L.Patel and R.N.Singh,  
International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 5, Issue 11, 75-85, 2017.
19. Generalised Sasakian Space Forms Admitting Quarter-Symmetric Metric Connection,  
**S.K.Pandey**, R.L.Patel and R.N.Singh,  
International Journal of Mathematics Trends and Technology, 51(5), 321-331, 2017.
20. Ricci Solitons on  $(\epsilon)$ -Kenmotsu Manifolds Admitting Concircular Curvature Tensor,  
R.L.Patel, **S.K.Pandey** and R.N.Singh,  
Vindhya Bharti, 15(ii), 69-73, 2017.

21. Some Semi-Symmetry Conditions of  $(\epsilon)$ -Kenmotsu Manifolds,  
**S.K.Pandey**, R.L.Patel and R.N.Singh,  
Vindhya Bharti, 15(ii), 63-68, 2017.
22. On an Invariant Submanifold of Hyperbolic Sasakian Manifolds,  
**S.K. Pandey** and R.N.Singh,  
Facta Universitatis (Niš), Ser.Math.Inform., 32(3), 353-367, 2017.
23. Ricci Solitons on  $(\epsilon)$ -Para Sasakian Manifolds,  
R.L.Patel, **S.K.Pandey** and R.N.Singh,  
International Journal of Mathematics and its Applications, 6(1-A), 73-82, 2018.
24. On Ricc Solitons in  $(\epsilon)$ -Kenmotsu Manifolds,  
R.L.Patel, **S.K.Pandey** and R.N.Singh,  
International Journal of Engineering Sciences and Management Research, 5(2), 17-23, 2018.
25. On m-Projective Curvature Tensor of Generalized Sasakian-Space-Forms,  
**S.K. Pandey** and R.N.Singh,  
Facta Universitatis (Niš), Ser. Math. Inform., 33(3), 361-373, 2018.
26. Contact metric generalized  $(\kappa, \mu)$ -space-forms satisfying certain curvature conditions,  
R.L.Patel, **S.K.Pandey** and R.N.Singh,  
Vindhya Bharti, Vol.16(II), 135-140, 2018.
27. Ricci Solitons on  $(\epsilon)$ -Para Sasakian Manifolds Admitting Conircular Curvature Tensor,  
R.L.Patel, **S.K.Pandey** and R.N.Singh,  
International Journal of Latest Engineering and Management Research, 5(7), 01-06, 2020.
28. On the  $W_2$ -Curvature tensor of the projective semi-symmetric connection in an SP-Sasakian manifold,  
T.Raghuwanshi, **S.K.Pandey**, M.K.Pandey and A.Goyal,  
Vikram Mathematical Journal, Vol.39-40, 102-118, 2020.
29. On the Weyl projective curvature tensor of the projective semi-symmetric connection in an SP-Sasakian manifold,  
T.Raghuwanshi, **S.K.Pandey**, M.K.Pandey and A.Goyal,  
Journal of Ultra Scientist of Physical Sciences, 32(9), 7,100-110, 2020.

30. Space-time Admitting Generalized Projective Curvature Tensor,  
S.P. Maurya, **S.K. Pandey** and R.N. Singh,  
The Mathematics Student, 90(3-4), 29-42, 2021.
31. Almost Pseudo Semi-Conformally Symmetric Space-time,  
S.P. Maurya, **S.K. Pandey** and R.N. Singh,  
Journal of International Academy of Physical Sciences, 25(1), 37-39, 2021.
32. SP-Sasakian manifold with a projective semi-symmetric connection,  
T.Raghuwanshi, **S.K.Pandey**, M.K.Pandey and A.Goyal,  
Journal of Advanced Mathematical Studies, Vol.14(3), 462-473, 2021.
33. On generalized  $W_2$ -Curvature tensor of para-Kenmotsu manifolds,  
T.Raghuwanshi, **S.K.Pandey**, M.K.Pandey and A.Goyal,  
Filomat, Vol.36(3), 741-752, 2022.
34. Space-time Admitting Generalized Conharmonic Curvature Tensor,  
S.P. Maurya, **S.K. Pandey** and R.N. Singh,  
Differential Geometry Dynamical System, Vol.24, 139-150, 2022.
35. Generalized M-projective curvature tensor of Kenmotsu manifold,  
Mayank Pandey, Swati Sharma, **S.K.Pandey** and R.N.Singh,  
Bull. Cal. Math. Soc., 114(5), 735-750, 2022.
36. On Generalized M-projective curvature tensor of para-Kenmotsu Manifold admitting  
Zamkovoy Connection,  
Swati Sharma, Mayank Pandey, **S.K.Pandey** and R.N.Singh  
Bull.Cal.Math.Soc.114(3), 331-336, (2022).
37. Generalized conformal curvature tensor of LP-Sasakian manifold,  
Mayank Pandey, Swati Sharma, **S.K.Pandey** and R.N.Singh,  
South East Asian J. of Mathematics and Mathematical Sciences,19(1), 241-256,  
2023.
38. Quasi-Para-Sasakian manifolds admitting Zamkovoy Connection,  
Facta Universitatis (Nis) Ser.Math.Inform., 38(5), 869-893, 2023.

## **List of Chapters in Edited Books and Full Paper in Conference Proceedings**

1. Space-time Admitting  $W_6$ -Curvature Tensor  
S.P. Maurya, **S.K. Pandey** and R.N. Singh  
Mathematical Computational Intelligence and Engineering Approaches for Tourism, Agriculture and Healthcare, 159-170, Lecture Notes in Network and Systems, Vol.214, 2021.  
**ISBN: 978-981-16-3807-7-12.**
2. Generalized Projective Curvature Tensor of quasi-para-Sasakian manifolds,  
**Shravan K.Pandey,**  
Modern Approaches to Mathematics and Computer Sciences, Island Publishers, Tamilnadu, India, Vol.I, 2022.  
**ISBN: 978-93-933333-0-8**
3. Space-time admitting generalized m-projective curvature tensor,  
S.P. Maurya, **S.K. Pandey** and R.N. Singh,  
Recent Advances in Mathematics and Optimization, Selective & Scientific Books, New Delhi, 2022. **ISBN : 978-93-92787-31-7.**
4. Generalized projective curvature tensor of LP-Sasakian manifolds,  
M. Pandey, S. Sharma, **S.K.Pandey** and R.N.Singh,  
A Conference Proceedings of Recent Trends in Modern Mathematics (RTMM), 2021, Vol.2,338-350.  
**ISBN: 978-93-5578-172-7**
5. Generalized M-projective curvature tensor of LP-Sasakian manifolds,  
S. Sharma, M. Pandey, **S.K.Pandey** and R.N.Singh,  
A Conference Proceedings of Recent Trends in Modern Mathematics (RTMM), 2021, Vol.2,366-380.  
**ISBN: 978-93-5578-172-7**



**List of Invited Lecture/Papers presented in Conferences /Seminars**  
**/Refresher /Orientation/ FDP of Dr. Shravan K.Pandey**

1. Presented a paper entitled “Second Order Parallel Tensors on LP-Sasakian Manifolds” in a National Seminar on History of Mathematical Sciences at Swami Vivekanand Govt. Post Graduate College, Nimach (M.P.), February 26-27, 2010.
2. Presented a paper entitled “Some Curvature Properties of a Semi-Symmetric Metric Connection in a Kenmotsu Manifold” in an International Conference on Recent Advances in Mathematical Sciences and Applications at Calcutta Mathematical Society, December 09-11, 2011.
3. Presented a paper entitled “On M-Projective Curvature Tensor of Generalized Sasakian Space Forms” in a National Conference on Differential Geometry and its Applications at University of Allahabad, Dec. 27-28, 2014.
4. Presented a paper entitled “On Submanifolds of Hyperbolic Sasakian Manifolds” in an international Conference on ‘Recent trends in Mathematical Sciences and Cosmology’ at Department of Mathematics, Govt. Model Science College, Rewa, Dec. 17-18, 2016.
5. Presented a paper entitled “Curvature Properties of Quasi-Para-Sasakian Manifolds” in a National Seminar on Central Role of Mathematics in Physical Sciences at Dept. of Mathematics, Govt. Science College, Jabalpur, (M. P.) during November 16 -17, 2019.
6. Delivered an Invited Talk on “Dehidral Groups” in a Workshop on Applications of Mathematics and Computer Science at Department of Mathematics and Computer Science, Govt. Model Science College, Rewa (M.P.) during March 03-09, 2020.
7. Presented a paper entitled “Generalized Projective Curvature Tensor of LP-Sasakian Manifold” in an International Conference on Recent Trends in Modern Mathematics (RTMM 2021) at PG & Research Department of Mathematics, St. John’s College, Palayamkottai during Sep. 23-24, 2021.
8. Organized two days “National Discipline Workshop” in Awadhesh Pratap Singh University, Rewa (M.P.) in the capacity of the co-convener of the Workshop during February 21-22, 2023.
9. Attended a Workshop on Differential Geometry at DST-CIMS, Banaras Hindu University, Varanasi (U.P.), May 02-11, 2011.
10. Attended Advanced Training School in Mathematics for Lecturers in Calculus and

Differential Geometry at Statistics and Mathematics Unit, ISI, Kolkata, November 28 - December 10, 2011.

- 11.** Completed a Refresher Course on Application of Mathematics at Rajiv Gandhi Proudyogiki Vishvavidyalaya, Bhopal (M.P.), Jan. 31- Feb. 04, 2012.
- 12.** Attended Instructional School for Lecturers in Differential Geometry at Kumaun University, SSJ Campus, Almora, May 21- June 09, 2012.
- 13.** Attended Instructional Schools for Lecturers on Topology and Geometry at Harish-Chandra Research Institute, Jhansi Allahabad (U.P.), Dec. 16 to 28, 2013.
- 14.** Attended NASI-TMC Summer School on Differential Geometry, a joint programme of the National Academy of Sciences, India and the Mathematics Consortium at Dept. of Mathematics and Statistics, Central University of Punjab, Bathinda during July 05-24, 2021.