

Dr. Rupali



Contact Information: Assistant Professor (Regular)
Department of Mathematics
Punjabi University, Patiala -147002.

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Personal Information :

Nationality : Indian.
Father's Name : Sh. Siri Ram.
Mother's Name : Smt. Gurbax Kaur.
Language skills : Punjabi, Hindi, English

Research Interests: Geometry of Submersions, Riemannian Maps, Harmonic Maps.

Career Objectives:

- To perform at my level best.
- To reach best heights in life by sincerity and hard work.
- To serve a reputed institution with sincerity where efforts are recognized and opportunity to grow provided.

Educational Qualifications:

- ❖ 10th (C.B.S.E Board) in 1999 with 70.2% marks.
- ❖ 10+2 (C.B.S.E Board) in 2001 with 72% marks.
- ❖ B.Sc. (hons. school Maths) in 2004 from Panjab University, Chandigarh, with 57% marks.
- ❖ M.Sc. (hons. school Maths) in 2006 from Panjab University, Chandigarh, with 71% marks and 3rd position in University.
- ❖ M.Phil (correspondence) Madurai Kamaraj University in 2008.
- ❖ Qualified CSIR-U.G.C. NET in 2010.
- ❖ Ph.D (The Geometry of Lightlike Submersions) from Punjabi University , Patiala in 2020.

Technical Proficiency:

- ❖ Basic knowledge of computer.
- ❖ Latex.

Experience(15 years)

- ❖ 2 years teaching experience (16/07/2007-31/07/2009) at Institute of Engineering and Technology, Bhaddal (Ropar) as an Assistant Professor (Lecturer).
- ❖ 3 years teaching experience (03/08/2009-01/08/2012) at Rayat & Bahra Institute of Engg. and Bio-Tech at mohali campus (Kharar) as an Assistant Professor (Lecturer).
- ❖ Working in the Department of Mathematics, Punjabi University, Patiala as an Assistant professor from August 2012 till date.

List of Papers published in SCI/ Scopus/ Referred journals:

1. Rupali Kaushal, Rakesh Kumar and R. K. Nagaich, “Lightlike submersions from totally umbilical semi-transversal lightlike submanifolds” , Miskolc Mathematical Notes, {19} (2018), 953--968.
2. Rupali Kaushal, Rakesh Kumar, Rashmi Sachdeva and R. K. Nagaich, “Semi-invariant Riemannian submersions from nearly Kaehler manifolds”, International Journal of Geometric Methods in Modern Physics, {17}(2020), 2050100(15 pages).
3. Rupali Kaushal, Rakesh Kumar and R. K. Nagaich, “On the geometry of screen conformal submersions of semi-transversal lightlike submanifolds”, Asian-European Journal of Mathematics, {14}, (2021), 2150133(13 pages).
4. Garima Gupta, Rakesh Kumar , Rupali Kaushal and Rashmi Sachdeva, “Conformal slant submersions from nearly Kaehler manifolds”, International Journal of Geometric Methods in Modern Physics, {18}(2021), 2150088(27 pages).
5. Rupali Kaushal, Rakesh Kumar, and R. K. Nagaich , “On geometry of pointwise slant lightlike submersions with totally umbilical fibers”, Afrika Matematika.
6. Rupali Kaushal ,Garima Gupta, Rakesh Kumar ,and Rashmi Sachdeva, “Conformal Slant Riemannian Maps With Totally Umbilical Fibers”, Mediterreanean Journal of Mathematics,{20:44}, (2022),(23 pages).

Other Publications :

- ❖ Rupali Kaushal, Rakesh Kumar, Rashmi Sachdeva and R. K. Nagaich, “Generic Riemannian Submersion from Nearly kaehler manifolds”, Journal of Tensor Society (J.T.S), {13}(2019), 0974-5428(20 pages.)
- ❖ Rupali Kaushal, “Survey of Lightlike Submersions”, An International Journal of Engineering Sciences, {24}(2017), 2320-0332 (112-122)

List of workshops/ short term courses/ Refresher courses

- Participated in 5 day(Oct 23-27,2013) National workshop on Differential Geometry at Banasthali under auspices of CMS.
- Participated in TEW on Finite Group Theory, supported by National Centre for Mathematics, held at Department of Mathematics, Punjabi University, Patiala(27th May to 2nd June , 2014)
- Attended UGC- Sponsored Orientation Programme by Academic Staff College Punjabi University, Patiala (09.06.2014- 05.07.2014).
- Participated in the ATM Workshop on Lattices Geometry and Dynamics at IISER Mohali, during 17th 22nd December 2014.(6 days).
- Participated in RMS-workshop, held at IISER Mohali, on 14 May, 2015.
- Attended UGC- Sponsored Refresher Course (01.12.2015- 21.12.2015)
- Participated in Regional Workshop on Indian Women and Mathematics: Research and career Opportunities , organized by Department of Mathematics, Punjabi University, Patiala. Feb 06-07,2017.
- Attended National Conference on Man and Environment in Punjabi University, Patiala from March 10 to March 11, 2017.
- Attended International Conference on Advancements and Science & Technology, organized by University School of Sciences, Rayat- Bahra University, Mohali(Punjab) on April 20-21,2017.
- Participated in Three Days National Workshop on LaTeX and Technical Writing PUNDABI UNIVERSTTY PATIALA, Organized by Department of Basic and Applied Sciences Punjabi University, Patiala 23-25 November, 2018.
- Participated in One day National Seminar on Usage and Prospects of Mathematics on March 07,2019
- Attended UGC-Sponsored workshop/short term course on Moocks e-content development and open Educational Resources from 15/01/2020 to 22/01/2020 organized by UGC-HRDC, Punjabi University , Patiala.
- Participated in National workshop (FDP) on Managing virtual classroom and open Educational Resources from June 24-29, 2020. Organized by Centre for Academic leadership and Education Management(CALEM) Panjab University, Chandigarh.
- Participated in One Week Online Short Term Course On Modern Tools and Techniques for Effective Research and Publications (MTTERP) (August 21, 2020 - August 25, 2020) organized by Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR, PUNJAB, INDIA-144011.
- Participated in UGC- Sponsored Refresher course organized by HRDC Punjabi University Patiala from November 16-28, 2020.
- Participated in National Seminar Virtual Teaching and Effective Communication: The Challenge of Balance(Through Online Mode) On February 25-26, 2021 Centre for Academic Leadership and Education Management (CALEM),Panjab University, Chandigarh.
- Participated in NASI-TMC Summer school on Differential Geometry July 05-24,2021.
- Attended lecture on Research in Higher Education in Perspective of NEP 2020 on May 25, 2021
- Attended one day webinar on An interaction with Pi : Its Transcendence from Mathematics to Computer Science on June 25, 2021.
- Participated in One week FDP on computing with Matlab and Latex software: Indispensable tools for Researchers , Jan 05-11, 2022, Jointly organized by Department of Mathematics,

Mizan-Tepi University, Ethiopia in collaboration with Mathtech TThinking Foundation(MTTF), India.

- Attended International webinar on Intelligent Optimization Techniques and their Real Life Applications on Feb 25-27 , 2022

Conferences Attended and Paper Presented:

1. Attended Twenty-first International Conference of forum for Interdisciplinary Mathematics on Interdisciplinary Mathematics, Statistics and Computational Techniques. From Dec-15 to Dec-17, 2012.
2. Attended and presented paper, “Geometry and its Applications”, in National Seminar On Mathematics and Its applications, Dec 20, 2012
3. Attended International Conference on Algebra, Geometry, Analysis and their Applications, Department of Mathematics, Jamia Millia Islamia, New Delhi, during Nov 27-29,2014.(3 days)
4. Attended National Conference on Differential Geometry and General Relativity(28-29 November,2017).
5. Attended International Conference in Rayat Bahra University, Mohali from April 20 to April 21 , 2017.
6. Paper presentation :GCR-Lightlike submanifolds of an indefinite Kenmotsu Manifold, International Conference on Emerging areas of Mathematics for Science and Technology 31st Jan’15 to 2nd Feb’15, Punjabi University, Patiala.
7. Paper presentation : Submersions of Totally Umbilical Semi-Transversal Lightlike Submanifold at National Conference on Recent Developments in MATHEMATICAL MODELLING & FUZZIOLOGY.Oct. 28-29, 2015, Chandigarh University.
8. Paper presentation : Some more results on Submersions of Totally Umbilical Semi-Transversal Lightlike Submanifolds onto Hermitian Manifolds, International Conference on Mathematics For Brain Studies.Feb. 1-3, 2016, Noida International University.
9. Paper presentation : Screen Conformal Submersion, National Conference Recent Trends in Environment, Science & Technology-2016.March 11, 2016. Rayat-Bahara University.
10. Paper presentation : Lightlike Submersion and Curvature Relation. National Conference on Recent Advancement in Science , Commerce and Technology 2016.April 5th -6th ,2016, Mata Sahib Kaur Girls College, Bathinda.
11. Attended National Conference on Differential Geometry and General Relativity, Nov 28-29, 2017, organized by Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar, Gujarat and Tensor Society.
12. Attended National Conference on Recent Developments in Mathematical Modelling and Fuzziology-II organized by Department of Mathematics(UIS), Chandigarh University, Mohali, Punjab, on 27-28 March, 2018
13. Participated and presented paper in International conference on Recent Advances in Computational Mathematics & Engineering March 19-21, 2021(online) B.K. Birla Institute of Engineering and technology.

14. Paper presentation : Harmonicity of slant conformal Riemannian maps in Two Days International Conference on Differential Geometry and its Applications on March 4-5, 2022, Kuvempu University.

Invited talks:

1. Invited Talk on Non-Existence of Totally Umbilical Radical Transversal Lightlike Submanifolds, Department of Mathematics, Shri Mata Vaishno Devi University, Katra, 7th -8th, March, 2017.
2. Invited talk on Functions of one real variable , Online National workshop on Preparation of IIT-JAM Exam in Mathematics, Department of Mathematics and Statistics, PSGVP Mandal's Art's, Science and Commerce College, Shahada (28/01/2021).
3. Invited talk on Sequence and Series of Real numbers, Online National workshop on Preparation of IIT-JAM Exam in Mathematics, Department of Mathematics and Statistics, PSGVP Mandal's Art's, Science and Commerce College, Shahada (31/01/2021).
4. Invited Lecture (08/10/2020, Online) on Functions of Several Variables, Department of Mathematics , SGTB Khalsa college , Anandpur Sahib, University Level.

Administrative and Academic responsibilities:

1. Acted as Superintendent and deputy supt. for end semester examinations.
2. Updated course contents of various subjects being member of Board of Studies post and under graduate classes. Worked on designing syllabus of Mathematics subjects in FYIP Mathematics and computing Sciences.
3. Acted as paper setter for various universities in India.
4. Acted as a member of academic visits/educational tour committee , cultural committee , sports committee.
5. Acted as ACD secretary for the session 2013-14, 2021-2022.
6. Member of Local organizing comm. of TEW held in May 2014 (Registration, Decoration, Hospitality).
7. Member of Admission Committee.
8. Member of Local organization committee, Decoration committee , Registration Committee of International Conference held in the Department of Mathematics, Punjabi University, Patiala.
9. Member of Inspection Committee at S.S.D College of Professional studies, Bathinda on 16/10/2015.
10. Member of Inspection Committee at S.S.D College of Prof. Studies, Bathinda on 28/11/2015.
11. Member of Inspection Committee at Vidya Sagar College of Mgt. & Tech. on 27.07.2015.
12. Organized National Science Day in the Department of Mathematics, Punjabi University, Patiala on 29.02.2016.
13. Performed duties of Time Table In-charge for B.Sc and M.Sc classes in Department of Mathematics.
14. Member of Local Organizing committee of IWM held in the Department in Feb 2017.
15. Performed duties of Class Counselor for B.Sc.(MCM), Class Counselor for B.Sc.(MC).

16. Life Member of Punjab Academy of Sciences, Membership No 1425.
17. Life Member of “The Tensor Society”, India, Membership No.
18. Member faculty of physical sciences, Department of Mathematics, Punjabi University, Patiala.
19. Member of Governing body Aryabhata college Barnala(2019-2021).
20. Subject expert in selection committee University College, Moonak on Oct 25,2021 to appoint teachers under PTA fund.
21. Member of DRB, Department of Mathematics, Punjabi University, Patiala.
22. Organized online Lecture for students on “An Interaction with Pi”, Department of Mathematics, Punjabi University, Patiala, March-23, 2022.

References for Recommendation:

1. Prof.(Ex) Dr. R.K. Nagaich
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