# CURRICULUM VITAE

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|---|---|---|
| **Name:** | **Dr. Rajesh Prasad** | |
| **Designation:** | **Assistant Professor** | |
| **School:** | **School of Physical Sciences** | |
| **Department:** | **Mathematics** | |
| **Specialisation & Research Interests:** | **Mathematical Modelling on Coupled Thermomechanical problems, Non-Fourier Heat Conduction, Fractional order Thermoelasticity** | |
| **Email IDs (Official & Personal)** | rajesh.mukho@gmail.com, rajeshprasad@mgcub.ac.in | |
| **Mobile No.:** | 8887945922 | |
| **Address:** | Raja Bazar, Naka Number 4, Old Bus stand (In front of Mishra Bandhu Building ), East Champaran, Motihari 845401. | |

## 2.     ACADEMIC QUALIFICATION (in reverse Chronological order):

| Degree | Year | University / Board |
|---|---|---|
| Ph.D. | 2012 | IIT-BHU |
| M.Sc. | 2007 | BHU |
| B.Sc. | 2003 | V. B. S. Purvanchal University |
| I2th | 2000 | U. P. Board |
| 10th | 1998 | U. P. Board |

## 3.     ANY OTHER QUALIFICATION:

## 4.     PROFESSIONAL EXPERIENCE:

| Organisation/Institute/University | Position Held | Duration |
|---|---|---|
| Mahatma Gandhi Central University, Bihar | Assistant Professor | 05- 10- 2016 to till date |
| Central University of Rajasthan, Rajasthan | Assistant Professor | 10-08-2015 to 09-08-2016 |
| NIMS University, NIET College Rajasthan | Assistant Professor | 12-07-2012 to 08-08-2015 |

## 5.     ADMINISTRATIVE ASSIGNMENTS:

| Position Held | Duration | Nature of Work |
|---|---|---|
| CoE Member | 01 Years | Related to Examination |

## 6.     COURSES TAUGHT:

| UG | PG | M. Phil and Ph. D. |
|---|---|---|
| Calculus | Mathematical Methods | Computational PDE |
| Differential Equations | Ordinary Differential Equations | Theory of Elasticity |
| Element of Analysis | Partial Differential Equations | Research Methodology |
| Numerical Analysis | Fluid Dynamics | |
| Mathematical Methods | Special Functions | |
| Graph Theory | | |

## 7.     RESEARCH SUPERVISION:

**A.     Ph.D.:**

**i.     Awarded     : 00**
**ii.     Submitted     : 00**

        **iii.**     **Ongoing**     **: 02**

**B.**     **M.Phil.:**

        **i.**     **Awarded**     **: 00**
        **ii.**     **Submitted**     **: 00**
        **iii.**     **Ongoing**     **: 02**

**C.**     **Non-Degree Oriented (Master's Level Dissertation):**

        **i.**     **Awarded**     **: 00**
        **ii.**     **Submitted**     **: 00**
        **iii.**     **Ongoing**     **: 00**

**8.**     **CONTRIBUTION TO CORPORATE LIFE OF THE UNIVERSITY:**

**9.**     **MEMBERSHIP OF SOCIETIES / PROFESSIONAL BODIES:**

Indian Mathematical Society (Life Membership)     Unique Membership Number: L/2016/28

**10.**     **PUBLICATIONS :**

     **A.**     **BOOKS/MONOGRAPHS:**
        **1.**     **Authored:**

            i.     ......
            ii.     .......
            iii.     .......

        **2.**     **Edited:**

            i.     ......
            ii.     .......
            iii.     .......

     **B.**     **PAPERS IN REFEREED/PEER REVIEWED JOURNALS:**

     **1.** Roushan Kumar, **Rajesh Prasad** and Santwana Mukhopadhyay, "Variational and Reciprocal principles in two-temperature generalized thermoelasticity", **Journal of Thermal Stresses, 33, (2010), 161–171, ISBN No. 0149-5739, Impact Factor 0.77.**

2. **Rajesh Prasad**, Roushan Kumar and Santwana Mukhopadhyay, "Propagation of harmonic plane waves under thermoelasticity with dual-phase-lags", **International Journal of Engineering Science**, 48, (2010), 2028-2043, ISBN No. 0020-7225, Impact Factor 1.2.

3. **Rajesh Prasad,** Subir Das and Santwana Mukhopadhyay, "Stress intensity factor of an edge crack in composite media", **International Journal of Fracture 172, (2011) 201-207, ISBN No. 0376-9429, Impact Factor 1.485.**

4. Roushan Kumar, **Rajesh Prasad** and Santwana Mukhopadhyay, "Some theorems on two temperature generalized thermoelasticity", **Archive of Applied Mechanics, 81, (2011),1031-1040, ISBN No. 0939-1533, Impact Factor 0.95.**

5. **Rajesh Prasad,** Roushan Kumar and Santwana Mukhopadhya**y**, "Effects of phase lags on wave propagation in an infinite solid due to a continuous line heat source", **Acta Mechanica, 27, (2011), 243-256, ISBN No. 0001-5970, Impact Factor 1.29.**

6. **Rajesh Prasad**, Roushan Kumar and Santwana Mukhopadhyay, "On the theory of two temperature thermoelasticity with two phase-lags", **Journal of Thermal Stresses, ISBN No. 0149-5739, Impact Factor 0.77.**

7. Santwana Mukhopadhya**y, Rajesh Prasad** and Roushan Kumar, "Variational and reciprocal principles in linear theory of type-III thermoelasticity", **Mathematics and Mechanics of Solids, 16, (2011), 435-444, ISBN No. 1081-2865, Impact Factor 1.121.**

8. Subir Das, Santwana Mukhopadhya**y**, **Rajesh Prasad**, "Stress intensity factor of an edge crack in bonded orthotropic materials", **International Journal of Fracture, 168, (2011), 117–123, ISBN No. 0376-9429, Impact Factor 1.485.**

9. **Rajesh Prasad,** Subir Das and Santwana Mukhopadhyay, "A two dimensional problem of Mode-I crack for a type III thermoelastic medium", **Mathematics and Mechanics of Solids, 18(5), (2012), 506-523, ISBN No. 1081-2865, Impact Factor 1.121**.

10. Santwana Mukhopadhyay, Roushan Kumar and **Rajesh Prasad**, "Comments on the article "On the propagation of harmonic plane waves under the two-temperature theory"(P. Puri and P.M. Jordan, Int. J. Eng. Sci., 44 (2006)1113-1126)", **International Journal of Engineering Science, 51, (2012), 344-347, ISBN No. 0020-7225, Impact Factor 1.121.**

11. **Rajesh Prasad** and Santwana Mukhopadhyay, "Effects of rotation on harmonic plane wave under two-temperature thermoelasticity", **Journal of Thermal Stresses, 35, (2012), 344-347, ISBN No. 0149-5739, Impact Factor 0.77.**

12. **Rajesh Prasad** and Santwana Mukhopadhyay, "Propagation of harmonic plane wave in a rotating elastic medium under two-temperature thermoelasticity with relaxation parameter", **Computational Methods in Science Technology, 18(1), (2012), 25-37, ISBN No. 1505-0602, Impact Factor 1.137.**

13. **Rajesh Prasad,** Subir Das and Santwana Mukhopadhyay, "Boundary integral equation formulation for coupled thermoelasticity with three phase-lags", **Mathematics and Mechanics of Solids, 18, (2013), 44-58, ISBN No. 1081-2865, Impact Factor 1.121.**

    **C.**      **PAPERS IN CONFERENCES PROCEEDINGS:**
   i.      ……
   ii.      …….
   iii.      …….

**11.**     **Patents/Copyrights /IPR (If Any)**

**12.**     **INVITED TALKS:**

**13.**     **RESEARCH PROJECTS** *(COMPLETED / ONGOING)***:**

**14.**     **PRESENTATIONS IN CONFERENCES:**

1. **Rajesh Prasad**, Roushan Kumar and Santwana Mukhopadhyay , "Propagation of harmonic plane waves under thermoelasticity with dual-phase-lags", **Challenges and Applications of Mathematics in Science and Technology (CAMIST), National Institute of Technology, Rourkela, India, Jan-13th to15th , 2010.**

2. **Rajesh Prasad**, Subir Das and Santwana Mukhopadhyay, "Wave Propagation in an infinite solid due to heat source under thermoelasticity with dual phase lags", **Recent Trends in Mathematical Sciences, Dept. Applied Mathematics, BHU, March 18th to 20th , 2010.**

3. **Rajesh Prasad**, Roushan Kumar, Subir Das and Santwana Mukhopadhyay, "A Variational theorem and reciprocal principle in linear theory of thermoelasticity

with dual phase lags" **, National Conference on Mathematical Modeling and Simulation, Dept. Applied Mathematics, BHU, March 25th to 27th , 2011.**

4. **Rajesh Prasad**, Subir Das and Santwana Mukhopadhyay, "A two dimensional problem of Mode-I crack under thermoelasticity without energy dissipation"**, National Conference on Mathematical Modeling and Computer Simulation (MMCS), Dept. Applied Mathematics, IT-BHU, March 23rd to25th , 2012.**

5. Anand Kunar, Pavan Kumar Singh and **Rajesh Prasad**, "Wave Propagation in an Infinite Solid Due to Line Heat Source and Point Heat Source Under Thermoelasticity with Dual Phase Lags", **18th International Conference of International Academy of Physical Sciences (CONIAPS XVIII), Recent Trends in Physical Sciences, University of Allahabad, Dept. of Mathematics, December 22th to 24th , 2015.**

6. Anand Kumar and Rajesh Prasad, "2-D Problem of Mode-I crack for a Type II Thermoelastic medium" **International Conference on Mathematical Modelling, Differential equations, Scientific Computing & Applications under IAMMS, IIT Kanpur Department of Mathematics and Statistics, March 27th to 29th , 2016.**

## TRAINING PROGRAM

1. **DST Centre for Interdisciplinary Mathematical Sciences**, The training program on "**LATEX DST Centre for Interdisciplinary Mathematical Sciences**, National Workshop Cum Training Programme on "**Advanced Numerical Technique and Applications**" June 29th to July 11th , 2009, BHU Varanasi-221005.

## WINTER SCHOOL

2. **DST Centre for Interdisciplinary Mathematical Sciences**, Winter School on "**Statistical Estimation and Modeling Topics on Least Square Methods and Ill- Conditioned Inverse Problems in Imaging Natural Language Processing and Information Retrieval and Speech Processing**" Feb 02th to 15th , 2011, BHU Varanasi- 221005.

# WORKSHOP

3. The workshop on **"Variational analysis and optimization with application to PDEs"** April 01st to 04th, 2011, **Indian Institute of Technology Gandhinagar,** Ahmedabad, Gujrat-382424.

4. The workshop on "**Renewable Energy and Hydrogen Economy Prospects and Challenges**" Nov 26th to 28th, 2013 **NIET, NIMS University, Jaipur (Rajasthan) 303121.**

5. The Workshop on "**Machine Learning and Computer Vision Using Matlab-2019**", April 3rd to 7th 2019, **Mahatma Gandhi Central University, Motihari (Bihar) 845401.**

6. The Workshop on "**Data Analytics using Hadloop (DAH-2019)**", Oct. 14th to 18th 2019, **Mahatma Gandhi Central University, Motihari (Bihar) 845401.**

**7.     AWARDS, FELLOWSHIPS & OTHER DISTINCTIONS:**

Rajeev Gandhi National Fellowship (RGNF), UGC, July 2008 to June 2012.

**8.     ANY OTHER SIGNIFICANT INFORMATION:**

*(Name of Faculty)*