

# Faculty Profile

1. Name:**Dr. Ghanshyam Prasad**



2. Department:**Mathematics**

3. Email id:**ghanshyam.math@bitsindri.ac.in**

4. Phone Number:**8960913297**

5. Office Address:**Dept. of Mathematics, BIT Sindri,  
Dhanbad, Jharkhand-828123**

6. Qualification:

| S. No | Degree(UG, PG, PhD)                        | Specialization                   | Institute                           |
|-------|--|----------------------------------|-------------------------------------|
| 1     | <b>BSc (Hons)<br/>Mathematics</b>          | <b>Mathematics</b>               | <b>Banaras Hindu<br/>University</b> |
| 2     | <b>MSc Mathematics &amp;<br/>Computing</b> | <b>Applied Mathematics</b>       | <b>IIT Guwahati</b>                 |
| 3     | <b>PhD Mathematical<br/>Sciences</b>       | <b>Nonlinear Dynamics</b>        | <b>IIT (BHU) Varanasi</b>           |
| 4     | <b>CSIR NET JRF</b>                        | <b>Mathematical<br/>Sciences</b> | <b>CSIR-UGC</b>                     |

7. Area of Specialization:**Nonlinear Dynamics**

8. PhD (Guided):NA

9. Subjects Taught:

I) UG:-**B. Tech-Mathematics I, Mathematics II, Mathematics III, Mathematics IV, Probability and Statistics.**

II) PG:-**M. Tech-Applied Mathematics**

10. Professional Experience:

I) Teaching Experience:

| Sl. No. | Position held       | Name of Organization          | from       | to        |
|---------|---------------------|-------------------------------|------------|-----------|
| 1.      | Assistant Professor | Mathematics Dept., BIT Sindri | 27-02-2018 | Till Date |

II) Research Experience:

| Sl. No. | Position held | Name of Organization | from | to |
|---------|---------------|----------------------|------|----|
|         |               |                      |      |    |

III) Industrial Experience:

| Sl. No. | Position held | Name of Organization | from | to |
|---------|---------------|----------------------|------|----|
|         |               |                      |      |    |

11. Publications:

I) International Journal:

| Sl. No. | Title of the paper   | Name of the journal in which publication has been made | Vol/No. | Publication Year | Pages    |
|---------|--|--|---------|------------------|----------|
| 1       | Combined synchronization of time-delayed chaotic systems with uncertain parameters   | <i>Chinese Journal of Physics</i>                      | 55      | 2017             | 457-466. |
| 2       | Combination-Combination phase synchronization among non-identical fractional order complex chaotic systems via nonlinear control | <i>International Journal of Dynamics and Control</i>   | 7       | 2019             | 330-340  |
| 3       | Triple compound synchronization among eight chaotic systems with external disturbances via nonlinear approach                    | <i>Differential Equations and Dynamical Systems</i>    |         | 2019             |          |
| 4       | An Analytical Algorithm for Fractional 1+1-Dimensional Nonlinear Boussinesq Equation   | <i>Nonlinear Sci. Lett. A</i>                          | 8 No. 3 | 2017             | 276-288  |

II) International Conference:

| Sl. No. | Title of the paper | Name of the Conference in which publication has been made | Vol/No. | Publication Year | Pages |
|---------|--------------------|---|---------|------------------|-------|
|         |                    |   |         |                  |       |

III) National Journal:

| Sl. No. | Title of the paper | Name of the journal in which publication has been made | Vol/No. | Publication Year | Pages |
|---------|--------------------|--|---------|------------------|-------|
|         |                    |  |         |                  |       |

IV) National Conference:

| Sl. No. | Title of the paper | Name of the Conference in which publication has been made | Vol/No. | Publication Year | Pages |
|---------|--------------------|---|---------|------------------|-------|
|         |                    |   |         |                  |       |

12. Patents (Filed / Granted):

| S. No. | Name of the Inventor | Title of the Invention | Application / Patent No. (As applicable) | Year | Status (Filed / Granted) |
|--------|----------------------|------------------------|--|------|--------------------------|
|        |                      |                        |  |      |                          |

13. Conference/ Workshop/Seminar/ Organized:

| Sl. No. | Title of Seminar / Conferences / Short – term Courses | Name of Coordinator | Funding / Sponsoring Agency | Date of Seminar / Conferences / Short – term Courses | No. of Participants |
|---------|---|---------------------|-----------------------------|--|---------------------|
|         |   |                     |                             |  |                     |

14. Conference/Symposium/ Workshop/Seminar/ Attended

| Sl. No. | Title of Symposium/ Workshop/Seminar/ Short – term Courses | Date | Organizing Institute |
|---------|--|------|----------------------|
|         |  |      |                      |

|    |   |                                |  |
|----|---|--------------------------------|--|
| 1. | <i>Latex training Programme</i>   | March 19-24, 2012              | DST CIMS BHU   |
| 2  | <b>National Conference on Mathematical Modeling and Computer Simulation (MMCS-2012)</b>                   | March 23-25 2012               | IT BHU Varanasi  |
| 3  | <i>National Workshop cum Training Programme on Computing Techniques and Applications</i>                  | July 01-07, 2012               | DST CIMS & Dept. of Mathematics, Faculty of Science BHU                            |
| 4  | <i>Training Programme on Integral transform, Wavelets, Distribution Theory &amp; Applications</i>         | July 12-21, 2012               | DST CIMS Faculty of Science BHU  |
| 5  | <i>Author Workshop jointly organized by springer and IIT BHU</i>  | 10 <sup>th</sup> Feb 2014      | IIT BHU  |
| 6  | <b>International Conference on “Mathematical Modeling and Computer Simulation</b>                         | December 8-10, 2014            | Dept. of Mathematics IIT Madras  |
| 7  | <i>National Workshop on Mathematical Modeling and Computer Simulation</i>                                 | March 20-21, 2015              | Teaching–Learning Cell, IIT BHU, Varanasi  |
| 8  | <i>National Symposium on Research Methodology for Future Researchers (RMFR- 2015)</i>                     | 22 March 2015                  | Teaching–Learning Cell, IIT BHU, Varanasi  |
| 9  | <i>AICTE Sponsored STC Workshop on Fixed Point Theory and Dynamical Systems</i>                           | 20-30 Nov. 2017                | Dept. of Mathematical Sciences IIT BHU, Varanasi                                   |
| 10 | <i>Workshop on Outcome Based Education (OBE) and Accreditation</i>  | March 16-17, 2018              | BIT Sindri, Dhanbad  |
| 11 | <i>Workshop on Numerical and Computational Methods for Fluid-Solid Interaction Problems</i>               | Sept. 27-28, 2018              | Dept. of Applied Mathematics IIT(ISM) and Dept. of Mathematics BIT Sindri, Dhanbad |
| 12 | <i>Workshop on Flow and Process Simulation in Process Industries FAPSIPI- 2018</i>                        | Oct. 29 to Nov 02, 2018        | TEQIP-III Dept. of Chemical Engineering BIT Sindri                                 |
| 13 | <i>TEQIP III Sponsored one-week Workshop on Recent Advances in Manufacturing (RAIM-18)</i>                | 27 Nov- 1 Dec 2018             | Dept. of Mechanical Engineering with SIEMENS, COE BIT Sindri                       |
| 14 | <i>AICTE Sponsored QIP-Short Term Course on Advanced Numerical Schemes for Scientists &amp; Engineers</i> | 12-16 August, 2019             | Dept. of Mathematical Sciences, IIT(BHU), Varanasi                                 |
| 15 | <i>One-week Faculty Development Programme on Natural Language Processing</i>                              | 6-10 January 2020              | BIT Sindri, Remote Center  |
| 16 | <i>TEQIP Online Certification, 2-week course on Digital Transformation in Teaching Learning Process</i>   | April 6 <sup>th</sup> to April | IIT Bombay, powered by SWAYAM, NPIU TEQIP III                                      |

|    |   |   |  |
|----|---|---|--|
|    |   | 22 <sup>nd</sup> 2020                                       |  |
| 17 | <i>Faculty Development Programme for Engineering Colleges on Virtual Labs</i>   | Online on 29 <sup>th</sup> June 2020                        | Jharkhand Education Grid, Rashtriya Uchchar Shiksha Abhiyan Jharkhand, JUT and BIT Sindri with NIT Karnataka, Suratkal           |
| 18 | <i>One Day Faculty Development Programme on Free Open-Source Tools for Education and Research</i>   | Online on 07 July 2020                                      | BIT Sindri, Dhanbad and FOSSEE, IIT Bombay   |
| 19 | <i>Webinar on Role of Technical Institutions for Atmanirbhar Bharat</i>   | Online, 9 <sup>th</sup> July 2020                           | State Project Implementation Unit- Uttar Pradesh TEQIP-III   |
| 20 | <i>One-day National Webinar on Impact of New Education Policy on Technical Education</i>  | Online, Sept. 23, 2020                                      | Dep. of Applied Mathematics, Jabalpur Engineering College, Jabalpur, MP  |
| 21 | <i>Virtual Lecture Series on Theory and Applications of Special Functions and Fractional Calculus</i>   | Online, 25 -27 Sept., 2020                                  | Dept. of Mathematical Sciences, P. D. Patel Institute of Applied Sciences, Charotar University of Science and Technology, Changa |
| 22 | <i>Faculty Development Programme on Python 3.4.3 with course material provided by Spoken Tutorial Project, IIT Bombay</i>   | Online, 5-10-2020 to 16-11-2020                             | B.I.T Sindri, Dhanbad and Spoken Tutorial Project, IIT Bombay  |
| 23 | <i>Virtual International Workshop on Pandemic and Socio-Economic Determinants: The Uses, Mathematics and Computations behind the Modeling to inform Decision Makers</i> | 8-12 Feb 2021   | TEQIP III and organized by NIT Uttarakhand   |
| 24 | <i>Online Faculty Development Program on Excellence in Communication</i>  | Online, 25 <sup>th</sup> Feb. to 04 <sup>th</sup> Mar. 2021 | IIM Bodh Gaya  |

15. Administrative Position Held:

| S. No. | Position Held | From<br>(date/month/year) |
|--------|---------------|---------------------------|
|        |               |                           |

16. Award /Recognition Bestowed on Faculty (State / National / International):

17. Members of Professional Bodies: