

**RAM LAL ANAND COLLEGE (University of Delhi)**

**Faculty Details**

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| Title | **Mr.** | First Name | | **Basant Kumar** | Last Name | **Mishra** | Photograph |
| Designation | | **Assistant Professor** | | | | | C:\Users\HP\Desktop\Personal\Doc_personal\Basant Mishra.jpg |
| Address | | Rz-341, UGF, Gali No-11D, Kailashpuri West, New Delhi-110045 | | | | |
| Phone No Office | | 011-24112557 | | | | |
| Residence | |  | | | | |
| Mobile | | **9810331830** | | | | |
| Email | | [**Basantmishra.maths@rla.du.ac.in**](mailto:Basantmishra.maths@rla.du.ac.in)  [**Basant.mishra16@gmail.com**](mailto:Basant.mishra16@gmail.com) | | | | |
| Web-Page | |  | | | | |
| Educational Qualifications | | | | | | | |
| Degree | | | Institution | | | | Year |
| PhD | | | University of Delhi | | | | Pursuing |
| MPhil | | | VMU, Salem | | | | 2008 |
| MSc | | | University of Delhi | | | | 2002 |
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| Career Profile | | | | | | | |
| |  |  |  | | --- | --- | --- | | **Organization** | **Designation** | **Duration** | | Ram Lal Anand College, University of Delhi | Assistant Professor | July, 2005 - till date | | | | | | | | |
| Administrative Assignments | | | | | | | |
| * Teacher-in-charge of Department of Mathematics, Ram Lal Anand College for the session 2017-18, 2018-19, 2019-20, 2022-23 (Nov-March) , 2023-24 * Co-Convener, Time-table committee for the session 2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22 * Member, Criterion-V, NAAC committee * Member, NIRF Committee for the session 2023-24 * Member of Examination Committee, which is responsible to conduct semester examination/ SOL examinations for the session 2013-14, 2014-15, 2015-16, 2016-17. * Member, Discipline committee from 2010-2015 * Member, Placement Cell of RLA for the session 2010-11, 2011-12, 2012-13, 2013-14. * Member, Student’s Union and Advisory committee for the session 2015-2016, 2016-17, and 2023-24 * Member, Yoga and Meditation committee for the session 2017-18, 2018-19, 2019-20. * Member, North-East society for the session 2021-22, 2022-23 * Member, Alumni Committee for the session 2018-19. * Member, BA(Prog.) Committee for the session 2015-16, 2016-17, 2016-17, 2016-17, 2016-17, 2016-17. * Member of Library Committee for the session 2017-18, 2018-19, 2019-20, 2023-24 | | | | | | | |
| Areas of Interest / Specialization | | | | | | | |
| Numerical Analysis (Finite Difference Method), Mathematical Modelling, Differential Equation, Dynamical System and Space Dynamics, Computational Method of Partial Differential Equation, Operational Research and Vedic Mathematics | | | | | | | |
| Subjects Taught | | | | | | | |
| 1. Calculus and Multivariate Calculus 2. Probability and Statistics 3. Numerical Analysis 4. Operational Research 5. Abstract Algebra and Linear Algebra 6. Differential Equations 7. Partial Differential Equation 8. Discrete Mathematics 9. Skill Enhancement Course : Latex & HTML, Computer Algebra System 10. Vedic Mathematics | | | | | | | |
| Research Guidance | | | | | | | |
| * *Supervised and Guide ten students in Innovation Project RLA-208 entitled: Connecting digital Word to the Physical world Through social Media, (2013-2014) as Principal Investigator of the Project (developed App “SUDHAR”)* * *Supervised and Guide ten students in Innovation Project RLA-301 entitled: AUTOMATIC GREEN CORRIDOR USING SENSORS TO SAVE HUMAN LIFE IN DELHI, (2015-2016) as Principal Investigator of the Project (developed Transmitter and Receiver “CRISS-CROSS” for emergency Vehicles using Radio sensors)* | | | | | | | |
| Publications Profile (Books/Chapters/Research articles, etc.) (Last 10 publications) | | | | | | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **S.No.** | **Author** | **Title** | **Publication**  **Type** | **ISSN/ISBN**  **No.** | **Publishers/ Country & Year** | | **1** | **Mishra, B.K, Pandey, P.K** | The approximate solution of the Third order boundary value problem with an integral boundary condition, using Hybrid Finite difference Method. | **Research**  **Paper** | 1454-5101  Vol-24, 235-244 | Applied Sciences  2022  (Romania) | | **2** | **Basant Kumar Mishra**  (Co-Author, Contributor) | Finite Mathematics with Application in the Management, Natural and Social Sciences | **Chapters**  **in book** | 978-1-292 - 05863-4 | Pearson Education Limited (Global Edition)  (2013) | | **3** | **Basant Kumar Mishra**  (Co-Author) | Discrete Mathematics | **e~Book** | 978-93-85611-38-4 | ILLL, University of Delhi  (2012) | | **4** | **Basant Kumar Mishra**  (Co-Author) | Discrete Mathematics | **e~Quiz** | 2349-154X | ILLL, University of Delhi  (2012) | | **5** | **Basant K Mishra**, R Kumar | A study on impact of social media on e-commerce in India | **Research**  **Article** |  | Journal by MAC  (2017) | | **6** | **Basant Kumar Mishra** | COVID-19 Pandemic: Challenges, Impact and Strategies in the Education Sector in India" | **Research**  **Article** |  | Communicated | | **7** | **Basant Kumar Mishra** | Nutrition Schemes and Learning Outcomes for Schedule Tribes Population of India: Evidence from NDAP | **Research**  **Article** |  | NITI AAyog,  Govt, of India | | | | | | | | |
| Conference Organization/ Presentations (in the last three years) | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Conference/Workshop/seminar/Webinar Organized** | | | | | | **Sr. No.** | **Dates** | **Topic** | **National** | **Source of funding/ Organized by** | | 1. | 09-01-2016 | Workshop on **Utility of Sensor Network in Traffic Control with Onyx Electricals** | National | Innovation Project, University of Delhi | | 2 | 02-02-2014 | Workshop on **Digital Media and App development** | National | Innovation Project, University of Delhi | | 3 | 29-02-2020 | Organized National Workshop on **Dynamical System** at **IIT Mandi** | National | SBS, IIT Mandi in collaboration with RLA(DU) | | 4 | 09-11-2022 | Workshop on **Cryptography: A recent trend in Mathematics**, by Prof. R.K. Sharma, **IIT Delhi** | National | Department of Mathematics, RLAC | | 5 | 19-03-2023 | Webinar on **Application of Number Theory**, by Prof. Srinivas Kotyada, **IMSC, Chennai** | National | Department of Mathematics, RLAC | | 6 | 08-01-2022 | Webinar on **Mathematics Behind Investment Decision Making** , by Dr. Ruchika Sehgal, Assistant Professor in the Department of Mathematics & Computing at **IIT(ISM) Dhanbad**. | National | Department of Mathematics, RLAC | | 7 | 19-06-2017 to 29-06-2017 | Workshop on Yoga & Meditation on International Yoga Day | National | Ram Lal Anand College, University of Delhi | | 8 | 24-07-2021 | Webinar on Introduction to Data Science by Industry expert Mr. Nikhil Chauhan. | National | Department of Mathematics, RLAC | | 9 | 28-11-2023 | Lecture/Seminar on **Role of Mathematics to inculcate Scientific Thinking** by Prof. Pankaj Sharma, Department of Mathematics, **Pondicherry University** | National | Department of Mathematics, RLAC | | 10 | 06-03-2022 | Webinar on **Some Concepts from Linear Algebra** Prof. Aparna Mehra, Department of Mathematics, **IIT Delhi** | National | Department of Mathematics, RLAC | | 11 | 29-02-2024 | Lecture/Seminar on **Journey through Dynamical System: Bifurcation, Chaos and Evolutionary Models** by Prof. Sachin Kumar, Department of Mathematics, **University of Delhi** | National | Department of Mathematics, RLAC |   **Conference/Workshop/seminar/Webinar attended**   * *Faculty Induction Program* organized by TLC, Ramanujan College under the aegis of Pandit Madan Mohan Malavia National Mission on Teachers and teaching (PMMMNMTT), MOE, Govt. of India from July 22, 2023 to August 20, 2023 * *Two weeks Refresher Course in Mathematics: Python Programming & Vedic Mathematics* organized by Teaching Learning Center(PMMMNMTT), MOE, Govt. of India & Department of Mathematics, Ramanujan College, university of Delhi in collaboration with JSS Science and Technology University, Mysuru from July 13, 2023 to July 26, 2023 * *Three day workshops for educators on Vedic Mathematics* from April 11, 2023 to April 13, 2023 organized by VAC committee, university of Delhi in collaboration with KMC, University of Delhi * Two weeks FDP on NEP 2020 Orientation and Sensitization Program organized by CPDHE, University of Delhi from Feb-1, 2024 to Feb 9, 2024. * *One week Faculty Development Programme (FDP) on “Moodle Learning Management System”* organized by Atal Bihari Vajpayee University, Bilaspur in association with IIT Bombay Spoken Tutorial (An Initiative of National Mission on Education through ICT, MHRD, Govt. of India) from 12 May, 2020 to 17 May, 2020. * *Twelve day FDP on SCILAB(Scientific Laboratories) from 22nd May to 2nd June, 2020 organised by IIT Mumbai through spoken tutorials, Remote Learning (An Initiative of National Mission on Education Through ICT, MHRD, Govt. of India)* * *One Week Faculty Development Program* on “*Recent Trends in Applications of Mathematics* (RTAM)” organized by Department of Freshman Engineering, Chadalawada Ramanamma Engineering College (Autonomous), Tirupati from 12th - 17th July 2021. * International FDP on *World of Cyber Crimes and Future Robotics of Industry: COBOTICS*, organized by Department of Electronics and Communication RCIT, Shirpur on 11th -12th July, 2020. * One week Online International Faculty Development Programme on “*Advanced Materials & Mathematical Tools*” from 10th July 2020 to 14th July 2020, organized by Engineering Department of GWCET, Nagpur. * One Week Online FDP on *Mathematical Modeling & Numerical Techniques 2020* held from 27/7/2020 to 31/7/2020 by the Faculty of Mathematics, Department of Mathematics and Humanities, Kakatiya Institute of Technology and Science, Warangal. * National level One Week online Faculty Development Programme on “*MATHEMATICS : A Practical Approach in Science and Technology*” Organised by Department of Basic Science and Humanities from 28th June to 3rd July 2020 * Attended webinar on “*NAAC: Systematic Data Organization and Presentation*", organized by IQAC, Vidyalankar Institute of Technology, Mumbai on 16-05-2020. * Participated in webinar titled *Computer vision for AI application* organized by Department of Electronics and communication engineering, Anna University on 26-05-2020 * Attended webinar on *Understanding The Corona Virus: Some Good News* organized by Kalindi College, Delhi university on 20-05-2020 * Participated in the webinar on the topic *“Current Trends in Information Technology”* organized by   Department of Computer Science in Collaboration with Department of Mathematics, Bharati College, University of Delhi on 15th May 2020.   * National Workshop on Application of *Mathematica Type Setting Software: LaTex* organized by MHRD & Guru Angad dev Teaching Learning Centre on 26th March, 2018. * National Workshop on Application of *Mathematica: A Scientific and Mathematical Tool* organized by MHRD & Guru Angad dev Teaching Learning Centre in collaboration with Wolfram Mathematica INC. on 9th March 2018. * National Conference on Innovation & Challenges in Indian Economy organized by Maharaja Agrasen College, University of Delhi on 24-04-2017. * Workshop on *Foundation Courses (Mathematics) Under UGC-ASC program* organized by CPDHE, University of Delhi from 12-06-2013 to 12-06 2013. * National Webinar on ‘*Financial Mathematics: Pedagogy and Career Perspective*s’ organised by the Department of Mathematics, Lady Shri Ram College For Women from July 27 to July 31, 2020. * Workshop on *Mathematics in Virtual Learning Method under Virtual Learning program* organized by CPDHE, University of Delhi from 12-06-2013 to 12-06 2013 * Trained in *Statistical Software SPSS* by Delhi University Computer Centre (DUCC) from 05-08-2013 to 09-05-2013. * Attended three day national level *workshop on MATLAB for beginners* organized by the Department of Mathematics, SAASC, Trichi from 28.07.2021 to 30.07.2021. | | | | | | | |
| Research Projects (Major Grants/Research Collaboration) | | | | | | | |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Sr. No | Name of Faculty | Title | Major / minor | Period years & Months | Grant received (INR) | Name of the funding agency | | 1 | Mr. Basant Kumar Mishra | Connecting Digital World To The Physical World Through Social Media | Major | 2013-14  (12 Months) | 3,00,000 | University of Delhi | | 2 | Mr. Basant Kumar Mishra | Automatic Green Corridor using Sensors to save human life in Delhi | Major | 2015-16  (12 Months) | 5,00,000 | University of Delhi | |  | Total Grant Received | | | | 8,00,000 (8 Lakh) | | | | | | | | | |
| Awards and Distinctions | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **S.No** | **Award Type** | **Award Name** | **Awarding Institution or Body** | **Date** | | 1 | TEACHING AWARD | **TEACHING EXCELLANCE AWARD** | University of Delhi | 1st MAY, 2015 | | 2 | INNOVATION AWARD | Certificate of appreciation for **BEST INNOVATIVE IDEA** for Innovation Project RLA-208 | University of Delhi | February, 20-22, 2015 | | 3. | INNOVATION RESEARCH AWARD | Selected for best Poster Presentation of Innovation Research RLA-301 | University of Delhi | November, 19, 2016 | | 4. | CSIR-UGC NET | CSIR-UGC NET  (Mathematical Science) | CSIR | December, 2008 | | | | | | | | |
| Association With Professional Bodies | | | | | | | |
| * Mathematical Society of India * International Mathematical Association | | | | | | | |
| Other Activities | | | | | | | |
| **Certificate Course Organized**   * Organized **Certificate Course of 40 hours on Python for data Science** for students, Research Scholar and teachers from 24th September, 2022 to 12th November, 2022 by Industry expert Mr. Nikhil Chauhan & Dr. Anisha Khaitan. * Organized **The Skill Enhancement Certificate Course of 40 hours on the topic “Latex: The Mathematical Typesetting Software**” from 9th January, 2021 to 21st February 2021 by Dr. Kuldip Singh Patel, Department of Mathematics, IIIT, Naya Raipur,Chhattisgarh.   **SOFTWARE KNOWLEDGE/COMPUTER PROFICIENCY**   * SPSS Certified from DUCC [Statistical Software] * MATHEMATICA , Mathematical software certified * MATLAB, Mathematical software * TORA, Mathematical Software for Operational Research * HNC Diploma in computer software from NIIT. * Friendly with MS-DOS, WINDOWS X, MS-OFFICE. MS-Excel.   **EXTRACURRICULAR ACTIVITIES**   * Took active part in Elocution, Debates, Quizzes and Stage Drama shows at the school and college level. * Represented College in the Inter-College Quiz competitions. * Attended and participated in various seminars organized by University of Delhi. * Held the post of Student’s Representative at Department of Mathematics in University of Delhi for consecutive 2 years.   **COMMUNITY ACTIVITIES**   * Raised funds for old and unprivileged people in association with ‘Help Age India’. * Volunteered in Adult Education and Public Awareness campaigns in rural areas. * Motivated by ‘Each one, Teach one’ concept, I have been teaching at least one unprivileged child since my college days. | | | | | | | |