

1. Name Dr. Ashok Kumar
2. Designation Assistant Professor
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6. Date of Appointment in Himachal Pradesh College Cadre: 04-07-2011.
7. Departmental Exam (Financial Administration) cleared in June 2018 Conducted by HIPA.

8. Research Publication:

- (i) A technique to solve simultaneous linear equations (148), November 29-30,2019, Knowledge & Research Publisher, Nagpur (International Publication) ISBN: 978-81-942641-8-7
- (ii) Thermal effect in a rotating disk made of rubber and magnesium materials and having variable density, published Journal of Rubber Research, Springer, (2021), <https://doi.org/10.1007/s42464-021-00107-6> (SCIE, I.F. 0.667).Published online : 07 June 2021
- (iii) Safety Analysis in an Isotropic Material Disc Fitted With a Rigid Shaft Subjected to Thermo-Mechanical Load by using Transition Theory (2022), The Society for Structural Integrity and Life Vol. 22, No 2 (2022) pp. 193-201
- (iv) A study on MHD stagnated point flow of ferrofluids over stretching sheets with slip conditions utilizing Darcy-Forchheimer model, Available online at www.anvpublication.org, Proceeding of ICAMAS-2025, ISBN-978-81-984914-5-9

9. Paper Presentations:

- (i) Participated in One day Seminar on RE-ACCREDITATION & INSTITUTIONAL PREPARATION Organized by IQAC NSCBM Government College, Hamirpur (H.P.) on April 09,2015 and presented a paper entitled " Governance, Leadership and Management.
- (ii) Participated in the two day National Conference on Advances in Mathematical Science (NCAMS-2016) ORGANISED by the Department of Mathematics, NSCBM Govt. College ,Hamirpur-177005,Himachal Pradesh, India during December 21-22,2016 and presented a paper entitled On the onset of triple-diffusive convection in a porous medium layer saturated with a Rivlin-Ericksen nanofluid.

(iii) Participated in the one day State Level Seminar on Applications of Mathematics in Daily Life (SLSAMDL-2018) ON National Mathematics Day December 22,2018 ORGANISED by the Department of Mathematics, NSCBM Govt. College, Hamirpur-177005,Himachal Pradesh, India and presented a paper entitled Magneto-thermal convection in a rotating viscoelastic ferromagnetic fluid saturating a porous medium.

(iv) Participated in the one day State Level Seminar on Applications of Mathematics in Daily Life (SLSAMDL-2018) ON National Mathematics Day December 22,2018 ORGANISED by the Department of Mathematics, NSCBM Govt. College, Hamirpur-177005,Himachal Pradesh, India and presented a paper entitled :Mensuration and its use.

(v) Participated in the one day National Conference on Quality of Higher Education (NCQHE-2019) ORGANISED by Internal Quality Assurance Cell (IQAC), NSCBM Govt. College, Hamirpur-177005,Himachal Pradesh, India on March 27,2019 and presented a paper entitled Choice based credit system in Higher Education.

(vi) Participated in International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2019) , Organized by Department of Mathematics NSCBM Government College, Hamirpur (H.P.) Sponsored by National Board for Higher Mathematics (NBHM), Mumbai, INDIA & Defence Research and Development Organisation (DRDO), New Delhi, INDIA on November 29-30,2019 and presented a paper entitled " A Technique to solve simultaneous linear equations.

(vii) Participated in International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2019),Organized by Department of Mathematics NSCBM Government College, Hamirpur (H.P.) Sponsored by National Board for Higher Mathematics (NBHM), Mumbai, INDIA & Defence Research and Development Organisation (DRDO), New Delhi, INDIA on November 29-30,2019 and presented a paper entitled " Thermal Effect in a Rotating Disc with Rigid Inclusion.

(viii) Participated and presented a paper in International Conference (ICIIIE-2020) Organised by UIET, Panjab University Chandigarh, GCET, Jammu and presented a paper entitled :Thermal analysis in rotating disc with shaft.

(ix) Participated and presented a paper in SSHP's International Webinar/Seminar Series on Expanding Horizon of Sociology: Basic Institutional Changes (SSHPWEB-II) 17-18 October, 2020 under the Aegis of Sociological Society, Himachal Pradesh & Organised by Sociological Society, Himachal Pradesh & Department of Sociology,

NSCBM Govt. College Hamirpur, H.P. and presented a paper entitled : Recent Trends in Application of Mathematics in Sociology.

(x) Participated and presented a paper in SSHP's International Webinar/Seminar Series on Expanding Horizon of Sociology: Basic Institutional Changes (SSHPWEB-II) 17-18 October, 2020 under the Aegis of Sociological Society, Himachal Pradesh & Organised by Sociological Society, Himachal Pradesh & Department of Sociology, NSCBM Govt. College Hamirpur, H.P. and presented a paper entitled : Role of Mathematics in Sociology.

(xi) Presented a paper in National Seminar on Applications of Mathematics in Daily Life Organised by Mathematics Club & Department of Mathematics, Sidharth Govt. Utkrishat College Nadaun Distt. Hamirpur (HP.) on 21st December 2022 and presented a paper entitled : Uses & Applications of Mathematics in Real Life.

(xii) Presented a paper in State Level Multidisciplinary Seminar on Importance of Mathematics (SLMDSIM-2022) ON National Mathematics Day Organised by Department of Mathematics Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur-177005, H.P. on December 22, 2022 and presented a paper entitled : Safety Analysis in an Isotropic Material Disc Fitted with a Rigid Shaft Subjected to Thermo-Mechanical Load by Using Transition Theory.

(xiii) Presented a paper in International Conference on Resilient Women, Innovative Solutions & Sustainable Environment RISE-2024 (Hybrid Mode) Organised by WGRC & IQAC Govt. College Bhoranj (Tarkwari) Distt. Hamirpur, Himachal Pradesh, India on 25-26 November 2024 and presented a paper entitled: Mathematical Modeling for Creative Problem-Solving: Fostering Entrepreneurial Thinking in STEM Education.

(xiv) Participated and presented a paper in International Conference on Advances in Mathematics and Applied Sciences (ICAMAS-2025) Organised by Department of Mathematics, NSCBM Govt. College, Hamirpur (H.P.) from March 27-28,2025 and presented a paper entitled: Studies of Thermal Stresses and Strain Rates in a Disc using different materials.

(xv) Participated and presented a paper in International Conference on Advances in Mathematics and Applied Sciences (ICAMAS-2025) Organised by Department of Mathematics, NSCBM Govt. College, Hamirpur (H.P.) from March 27-28,2025 and presented a paper entitled: Thermal Effect in a rotating disk made of rubber and magnesium materials and having variable density.

(xvi) National Seminar on Social Inclusion & Sustainable Development of Himachal Pradesh : Looking Ahead from 14th - 15th May 2025 Organized by Government College Majheen Distt. Kangra (HP) and presented a paper entitled: Empowering Sustainability Through Mathematical Sciences.

10. OC/RC/FDP/Workshop Attended :

(i) Induction Training Programme from 16.12.2013 to 28.12.2013 organized by Govt. College of Teacher Education Dharamshala Himachal Pradesh.

(ii) One Week International FDP (Avant-garde Trends in Mathematics) organized by Department of Mathematics, Bannari Amman Institute of Technology from 17 June to 23 June 2020.

(iii) One Week Faculty Development Programme on "Entrepreneurship, Incubation and Innovation" organized by Teaching Learning Centre Ramanujan College, University of Delhi from June 23 to June 29, 2020.

(iv) e-workshop titled "Practical Approach to Data Analysis from June 8-14, 2020 organized by Indira Gandhi University, Meerut, Rewari.

(v) Two-Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES AND CO-CREATING MOOCS 3.0" from July 25 - August 10, 2020 organized by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.

(vi) Two Weeks International FDP on "Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development" on October 26- November 7, 2020 organized by Computer Science and Engineering Department, Bipin Tripathi Kumaon Institute of Technology Dwarahat Almora (Uttarakhand), INDIA

(vii) UGC Sponsored Refresher Course Online in Mathematical Sciences from 04.01.2021 to 17.01.2021 organized by University of Jammu.

(viii) Two Weeks Refresher Course Online organized by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 01-15 May, 2021.

(ix) One Week Faculty Development Programme on "Systematic Literature Review and Meta-Analysis" organized by Teaching Learning Centre Ramanujan College, University

of Delhi under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 10-16 August, 2021.

(x) Two Weeks Refresher Course in Mathematics organized by the Department of Mathematics, Ramanujan College from 31 August-14 September 2021 under the aegis of MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.

(xi) One Week Faculty Development Programme Online on "Computing with Matlab and Latex Software : Indispensable Tools for Researchers organized by Department of Mathematics, Baba Farid College, Bathinda, India & Department of Mathematics, Mizan-Tepi University, Ethiopia in collaboration with MathTech Thinking Foundation (MTTF), India from January 05-11, 2022

(xii) Two Weeks Interdisciplinary Refresher Course on " Environment and Human Health" from 28 March-11 April, 2022 Organised by Teaching Learning Centre, Ramanujan College University of Delhi.

(xiii) Two Weeks Interdisciplinary Refresher Course in " Advanced Research Methodology" from 21 June-05 July, 2022 Organised by Teaching Learning Centre, Ramanujan College University of Delhi.

(xiv) Online Student Development Programme (OSDP) on Geometric Approach in Real Analysis from August 06, 2022 to October 22, 2022 Organised by Department of Mathematics, Sidharth Govt. Utkrisht College Nadaun Distt. Hamirpur (H.P.)

(xv) One Week online FDP on "National Education Policy-2020" from 01-07 February, 2023 Organised by Teaching Learning Centre, Ramanujan College University of Delhi.

(xvi) NEP 2020 Orientation & Sensitization Programme under malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by "MM-TTC" Ramanujan College, Delhi from 28 August, 2024-06 September, 2024.

(xvii) Two Weeks Interdisciplinary Refresher Course in " Advanced Research Methodology" from 22 September-06 October, 2023 Organised by Teaching Learning Centre, Ramanujan College University of Delhi.

(xviii) National Online Workshop on Statistical Data Analysis Using R & Python from November 24-30, 2024 Organized by Amiruddaula Islamia Degree College, Lucknow & Science Tech Institute, Lucknow.

(xix) One Week National Workshop on Foundation Course on Mathematics & Research Methodology (FCMRM-2024) from Dec. 16, 2024 to Dec. 21, 2024 Organized by Department of Mathematics & IQAC, NSCBM Govt. College, Hamirpur (H.P.).

(xx) One Week Faculty Development Programme on Advanced Research Methodology & Data Analytics from Oct. 21-27, 2024 Organized by Digvijai Nath Post Graduate College, Gorakhpur, UP & Science Tech Institute, Lucknow.

(xxi) One Week Faculty Development Programme on Professional Development & Administrative Training Programme from 17th June 2025 to 23rd June 2025 Organized by NSCBM Govt. College, Hamirpur.

11. Organizing Secretary

International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2019) organized by NSCBM Govt. College, Hamirpur, Himachal Pradesh, November, 29-30, 2019.

Online Student Development Programme on Foundation of Real Analysis organized by the Department of Mathematics, NSCBM Govt. College, Hamirpur (H.P.) FROM August 11, 2020 to September 05, 2020.

“Organizing Secretary” during the International Conference on “Advances in Mathematics and Applied Sciences”organised by the Department of Mathematics, NSCBM Govt. College, Hamirpur (H.P.) from March 27-28, 2025.

12. Technical Session Chaired

International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2019) organized by NSCBM Govt. College, Hamirpur, Himachal Pradesh, November, 29-30, 2019.

Chaired in Academic Session in the 2-days programme on “Foundation of Mathematics” organized by the Department of Mathematics, Sidharth Govt. “Utkrisht” College Nadaun, Distt. Hamirpur (H.P.) from December 15-16, 2021.

Chaired a Technical Session during the International Conference on “Advances in Mathematics and Applied Sciences”organised by the Department of Mathematics, NSCBM Govt. College, Hamirpur (H.P.) from March 27-28, 2025.

13. Obserber in Online Student Development Programme on Foundations of Mathematics organized by Department of Mathematics, Govt. Degree College, Sugh Bhatoli, Distt. Kangra, (HP) from 26th of July to 7th of August 2021.

14. Conference Proceedings:

Editor in International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2019) ORGANIZED BY THE Department of Mathematics, NSCBM Govt. College, Hamirpur, Himachal Pradesh, November 29-30,2019 ISBN No. : 978-81-942641-8-7

Editor in Proceeding of International Conference on Advances in Mathematics and Applied Sciences (ICAMAS-2025) ORGANIZED BY THE Department of Mathematics, NSCBM Govt. College, Hamirpur, Himachal Pradesh, ISBN- 978-81-984914-5-9.

15. Paper Setter of UG Classes of Himachal Pradesh University Shimla, B. Tech. and other courses in H.P. Technical University, Hamirpur,

16. Counselor in IGNOU