

CURRICULUM VITÆ

Name: Dr. Nirbhay Kumar

Designation: Assistant Professor and Head at Department of Mathematics, Feroze Gandhi College, Raebareli-229001, Uttar Pradesh, India.



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Date of Birth: 02/08/1997

Research Specialization: Ring and Module Theory; and their applications

Academic Qualifications:

❖ High School

Passing Year: 2011 (First Division with 76.33 Marks)

Institution: Janta Inter College, Raipur Bhatni, Kunda, Pratapgarh

Board: Uttar Pradesh State Board of High School and Intermediate Education

❖ Intermediate (PCM)

Passing Year: 2013 (First Division with 86.80 Marks)

Institution: Hanumat Inter College, Kalakankar, Kunda, Pratapgarh

Board: Uttar Pradesh State Board of High School and Intermediate Education

❖ B.Sc. (PCM)

Passing Year: 2016 (First Division with 77.33 Marks)

Institution: University of Allahabad, Prayagraj

University: University of Allahabad, Prayagraj

❖ **M.Sc. (Mathematics)**

Passing Year: 2018 (First Division with 94.52 Marks)

Institution: University of Allahabad, Prayagraj

University: University of Allahabad, Prayagraj

❖ **Ph.D.**

Thesis Title: A study on some classes of rings and Modules

Supervisor's Name: Dr. Avanish Kumar Chaturvedi

Institution: University of Allahabad, Prayagraj

University: University of Allahabad, Prayagraj

Year of Award: 2023_(23/01/2019-24/07/2023)

Academic Achievements:

- Qualified CSIR-UGC NET Examination Dec.-2018 (UGC-JRF, AIR-90).
- Qualified GATE Examination-2019 (AIR-33).
- Received DST-Inspire Scholarship (2013-2018).
- Received Six Gold Medals by University of Allahabad as per details given below: -
 1. Dr TEJ NARAYAN SHIVPURI MEMORIAL GOLD MEDAL
(Overall Post Graduate topper of Faculty of Science in Examination 2018)
 2. ALLAHABAD JUBILEE GOLD MEDAL
(Overall Post Graduate topper of Faculty of Science in Examination 2018)
 3. COX VIDYANT MEMORIAL GOLD MEDAL
(First position in M.Sc. Mathematics Examination 2018)
 4. TARAK NATH KHOSH MEMORIAL GOLD MEDAL
(First position amongst boys in M.Sc. Mathematics Examination 2018)
 5. ISHWAR NARAYAN KICHLU GOLD MEDAL
(First position in M.A./M.Sc. Mathematics Examination 2018)
 6. Smt LAKSHMI DEVI MEMORIAL GOLD MEDAL
(Overall Post Graduate topper in Examination 2018)

Software Skill:

- MS-Word
- Excel
- LaTeX
- MATLAB
- Mathematica
- GAP

Life Membership:

1. Life member of Indian Mathematical Society (IMS) ID: L/2021/128.

Academic Profile links:

1. ResearchGate:
<https://www.researchgate.net/profile/Nirbhay-Kumar-7>
2. ORC ID:
<https://orcid.org/0000-0001-9274-5875>
3. Google Scholar:
<https://scholar.google.com/citations?user=f6mljxAAAAAJ&hl=en>
4. VIDWAN (ID 207581):
<https://vidwan.inflibnet.ac.in/myprofile>
5. Stack Exchange Math (ID 662108):
<https://math.stackexchange.com/users/662108/nirbhay-kumar>

Organization of International/National Conferences/seminars/workshops etc.:

1. **Organized and contributed** as Convener in the one-day National Seminar on "Srinivasa Ramanujan and his contribution to Mathematics" held on December 22, 2022, on National Mathematics Day, organized by the Department of Mathematics, Feroze Gandhi College, Raebareli, UP (NAAC Accredited Grade 'A' College Associated with University of Lucknow, Lucknow).

International/National Conferences:

1. **Presented** a paper intitled "A note on reversibility of rings", in the international conference on "Advances in Algebra and Analysis" during December 18-20, 2020 organized by Department of Mathematics, Marwadi University, Rajkot, Gujrat, India.

2. **Presented** a paper intitled "On symmetry of rings related to the set of zero divisors" in the national Conference on "Recent Advancement in Physical Sciences" during December 19-20, 2020 organized by Department of Chemistry, Department of Physics, Department of Mathematics, National Institute of Technology, Uttarakhand.
3. **Presented** a paper intitled "On iso-c-retractable modules and rings" in the international Conference on "Pure and Applied Mathematical Sciences (ICPAMS-2021)" during June 7-10, 2021 organized by Tunisia, Saudi Arabia.
4. **Presented** a paper intitled "On a generalization of reversible rings", in the international conference on "Fundamental and Applied Sciences (ICFAS2021)" during October 19-21, 2021 organized by Antalya Bilim University, Antalya, Turkey.
5. **Presented** a paper intitled "Some extensions of Z-symmetric rings" in the international conference on "Recent Advances in Pure & Applied Algebra (RAPAA)" during October 26-28, 2021 organized by NIT Jamshedpur, India in association with International Academy of Physical Sciences, Prayagraj.
6. **Presented** a paper intitled "On iso-retractability of complement submodules" in the national Conference of Academy for Progress of Mathematics on "Recent Advances in Mathematical Analysis and Applications" during May 7-8, 2022 organized by DST-Centre for Interdisciplinary Mathematical Sciences, Institute of Science Banaras Hindu University, Varanasi-221005, India.
7. **Presented** a paper intitled "A note on ns-Noetherian modules and rings" in the international Conference on "Young Researchers in Algebra and Number Theory" during Jan 12-13, 2023 organized by Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco.
8. **Presented** a paper intitled "On α -skew Z-symmetric rings" in the international Conference on "First Joint IIIMT - Algebra Forum Conference (Algebra and Its Applications)" during Dec 16-17, 2023 organized by Department of Mathematics and Natural Sciences, University of Mataram, Indonesia.
9. Presented a paper intitled "A Generalization of Generalized Reversible Rings" in the international Conference on "Recent Trends in Mathematics, Statistics, and Engineering" during Dec 22-23, 2023 organized by School of Technology Management and Engineering, SVKM's NMIMS (Deemed-to-be University), Indore, Madhya Pradesh, India.

10. **Attended** an international conference on the topic "Recent Advances in Algebra, Analysis & Applications-2019" during December 20-22, 2019 at the Department of Mathematics and Statistics, Mohanlal Sukhadia University, Udaipur, Rajasthan, India.
11. **Attended** an online International Conference on the topic "History and Development of Mathematics" on 22th December, 2020 organized by Department of Mathematics, Maharshi Dayanand University, Rohtak, India.

Workshop(s):

1. **Attended** a national workshop on the topic "History of Mathematics Before 16th Century" during December 30-31, 2019 at the National Academy of Sciences, Prayagraj, India.
2. **Attended** a national workshop on the topic "Origin of Mathematics in Vedas and its Different Dimensions" during July 18-19, 2020 jointly organized by Gautam Buddha University and Shiksha Sanskriti Utthan Nyas, Greater Noida, Gautam Budh Nagar, Uttar Pradesh, India.
3. **Attended** a national workshop on the topic "Vaidik Ganit" during November 17-23, 2020 organized by Vaidik Science Centre, Banaras Hindu University, Varanasi, India.
4. **Attended** an international workshop on the topic "Srinivasa Ramanujan: the man beyond infinity" on December 22, 2020 organized by Srinivasa Ramanujan Department of Mathematic, Centre for Vaidik Mathematical Studies, Central University of Himachal Pradesh, Himachal Pradesh, India.
5. **Attended** a national workshop on the topic "Historical Development of Mathematics" during March 25-27, 2021 organized by Ramanujan Jhunjhunwala College of Arts, Science & Commerce Ghotkopar, Mumbai, India.
6. **Attended** an international workshop on the topic "How to learn mathematics in a meaningful way and to be successful in it" on June 5, 2021 organized by PG Dept. of Mathematics, Doaba College, Jalandhar, India.
7. **Attended** an international workshop on the topic "Research Methodology" during June 17-19, 2021 organized by APS college of Arts and Science, Bengaluru, India.
8. **Attended** One Week National Workshop on the topic "Scientific computation and Vedic Mathematics (SCVM-2023)" during 10-15th March, 2023, organized by

Department of Science and Humanities (Mathematics), National Institute of Technology, Nagaland, India.

Faculty Development Programs:

- 1. Attended** one week international Faculty Development Program on the topic “Advances Tools and Techniques for Scientific Research Writing and Publication (ATTSRWP-2022) during September 12-18, 2022 organized by Department of Mathematics and Statistics, University of Engineering and Management (UEM), Jaipur.
- 2. Attended** one week Faculty Development Program on the topic “Recent research area and its applications in Mathematics” during 10-15th October, 2022 organized by Dr. Rangarajan Sakunthala Engineering College, Chennai-600062, Tamil Nadu, India in association with Institutions Innovation Council, Government of India.
- 3. Attended** one week Faculty Development Program on the topic “Ethics in Academic Research Writing” during 30th January-4th February, 2023 (**obtained A+ Grade**), organized by AMET Business School, AMET University, Chennai, Tamilnadu, India in association with Human Resource Development Centre, Government of India.
- 4. Attended** one week Faculty Development Program on the topic “Recent Trends in Mathematics and Technology” during 9-13th October, 2023, organized by OP Jindal University, Raigarh, Chhattisgarh, India.
- 5. Attended** one week Faculty Development Program on the topic “Research Innovations and Implementation Methods” during 16-20th October, 2023, organized by Department of Electronics and Communication Engineering, IMS Engineering College, Ghaziabad, Uttar Pradesh, India.
- 6. Attended** one week Faculty Development Program on the topic “Advances in Mathematical Theory and Practical Applications” during 06-10th November, 2023, organized by Department of Mathematics, School of Basic Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai in association with Rabindranath Tagore University (RNTU).
- 7. Attended** one week Faculty Development Program on the topic “Applications of Mathematics in Various Fields with Innovative Approaches” during 21st – 25th November, 2023, organized by Department of Mathematics, Bapatla Engineering College, Bapatla, India.

Value Added Courses:

1. Attended two week Value Added Course on “Writing Research Paper in LaTeX” during 31st Oct. - 12th Nov., 2022 (**obtained 88% marks**), organized by Department of Mathematics Govt. V. Y. T. PG. Autonomous College, Durg, Chhattisgarh, India.
2. Attended one month Orientation module on Artificial Intelligent “AI Literacy for all” during November-December, 2023, organized by Team UPAI in association with Government of Uttar Pradesh.

Induction Program:

1. **Attended** four-week Faculty Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” during 21st Nov. – 20th Dec., 2022 (**obtained grade A+**), organized by Teaching Learning Centre, Ramanujan College, University of Delhi, India.

Skill Enrichment Course:-

1. **Attended** a Rusa Sponsored Skill Enhancement Course on “Artificial Intelligence And Machine Learning” during 24th Sep. – 4th Oct., 2023, organized by Department of Computer Science and Applications (DCSA), Panjab University, Chandigarh, India

Research papers (Published):

1. A.K. Chaturvedi, N. Kumar, K.P. Shum, On Z-symmetric rings, Math. Slovaca 71 (2021) 1361-1374. DOI: 10.1515/ms-2021-0058.
[Indexed in SCIE, SCOPUS, Impact Factor 0.770, ISSN: 1337-2211, , Publisher: De Gruyter].
2. A.K. Chaturvedi, N. Kumar, Iso-c-retractable modules and rings, Palest. J. Math. 11 (2022) 158-164.
[Indexed in SCOPUS, ISSN: 2219-5688, Publisher: Palestine Polytechnic University, Hebron, Palestine PPU Web].
3. A.K. Chaturvedi, S. Kumar, S. Prakash, N. Kumar, Essentially iso-retractable modules and rings, Carpathian Math. Publ. 14 (1) (2022) 76–85. DOI: 10.15330/cmp.14.1.76-85.
[Indexed in ESCI, SCOPUS, ISSN: 2313-0210, Publisher: Ivano-Frankivsk Mathematical Society].
4. A.K. Chaturvedi, N. Kumar, On Z-reversible rings, Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci. 92 (4) (2023) 555-562. DOI: 10.1007/s40010-022-00770-3.

[Indexed in SCIE, SCOPUS, Impact Factor 1.544, ISSN: 2250-1762, Publisher: National Academy of Sciences, India].

5. A.K. Chaturvedi, N. Kumar, Modules with finitely many small submodules, Asian-European J. Math 16 (1) (2023) 2350005:1-14. DOI: 10.1142/S1793557123500055.

[Indexed in ESCI, SCOPUS, Impact Factor 0.8, ISSN: 1793-7183, Publisher: World Scientific]

6. A.K. Chaturvedi, N. Kumar, On modules with chain condition on non-small submodules, Int. Electron. J. Algebra 33 (33) (2023) 109-124. DOI: 10.24330/jeja.1195509.

[Indexed in ESCI, SCOPUS, ISSN: 1306-6048, Publisher: Hacettepe University-Ankara University-Anvato Inc. USA-Artarda Inc.]

7. N. Kumar, A.K. Chaturvedi, Ring Endomorphism satisfying Z-symmetric property, Jordan J. Math. Stat., (2023) (accepted).

[Indexed in ESCI, SCOPUS, ISSN: 2227-5487, Publisher: Deanship of Research and Graduate Studies, Yarmouk University, Irbid, Jordan.]

8. N. Kumar, A.K. Chaturvedi, Ring Endomorphism satisfying Z-reversible property, Palest. J. Math. (2023) (accepted).

[Indexed in SCOPUS, ISSN: 2219-5688, Publisher: Palestine Polytechnic University, Hebron, Palestine PPU Web].

9. N. Kumar, A.K. Chaturvedi, On weakly generalized reversible rings, Advances in Ring Theory and Applications (2024) (accepted).

Supervision of Master Thesis: (Total No. 03)

1. Shikhar Jaiswal (2021-23)
2. Shruti Srivastava (2021-23)
3. Aakanksha Mishra (2021-23)