



OBJECTIVE:

TO EXERCISE TEACHING AND ADMINISTRATIVE SKILLS, GUIDE STUDENTS IN THEIR ACADEMIC PURSUITS AND TO CONSISTENTLY PURSUE RESEARCH AND WRITING.

CONTACT :

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References

Dr. Mukesh Kumar
Associate Professor (H.O.D.)
Department of Mathematics
MNNIT,teliyar ganj, Allhabad.

Dr. Jaidev Dabase
Associate Professor
Department of Mathematics
IIT, Roorkee.

DR. AMIT KUMAR MISHRA

Gujarat Education Service,

Class - I

Principal,
M. P. Shah Arts and Science College,
Surendranagar

Former post

- Assistant Professor, Mathematics, Institute of Technology, Nirma University, Ahmedabad

Experience

- Continued: 20 years as Assistant Professor, Section Head, Head-General Department, Nirma University, Ahmedabad.

Highlights:

- About 20 years of teaching experience at Nirma University, Ahmedabad.
- 5 years administrative experience as HOD-General department, Nirma University
- Ph. D. from NIT, Allahabad
- Awarded Summer Research Fellowship by Indian Academy of Sciences.
- Got Best Research paper award at National Conference, NIT, Patna.

EDUCATION

- Ph. D. in Mathematics from Motilal Nehru National Institute of Technology, Allahabad (NIT) in 2016.

KEY AREAS OF INTEREST

- STABILITY ANALYSIS AND FLUID DYNAMICS
 - LINEAR ALGEBRA AND MATRICES
 - OPERATION RESEARCH
- ## SUBJECTS TAUGHT
- ENGINEERING MATHEMATICS (GRADUATE)
 - CALCULUS (GRADUATE)
 - LINEAR ALGEBRA (GRADUATE)
 - MATHEMATICS FOR CHEMICAL ENGINEERS (GRADUATE)
 - PROBABILITY, DISTRIBUTION AND NUMERICAL METHODS (GRADUATE)
 - NUMERICAL METHODS AND OPTIMIZATION TECHNIQUES (PG)

- M.Phil. from Madurai Kamraj University, Chennai with Second class in 2008.
- Post Graduation in Mathematics from School of Sciences, Gujarat University with First class in 2000.
- Graduation in Mathematics from R.A. Bhawans college of Science Ahmedabad (Gujarat University) with First class in 1998.
- Passed SSC (CBSE Board) from Jawahar Navodaya Vidyalaya, Raebareli, UP with first class in 1993.
- Passed SSCE (CBSE Board) from Jawahar Navodaya Vidyalaya, Raebareli, UP with first class in 1991.

Additional Qualification

- Diploma in Mechanical Engineering from Institute of Mechanical Engineers, Mumbai.

Special Achievements

- Best paper award in National conference at NIT, Patna
- Selected and participated in Mathematical Training & Talent Search program organized by NBHM at R.I.E. Mysore.
- Awarded Minaxi Lalit Science award by Gujarat Science Academy.
- Chairman ISTE Faculty Chapter (2009-2012, organizing various activities time to time)
- Coordinated a workshop on Advanced Mathematics for students in 2010, 2011, 2012.
- Coordinator of ISTE approved forthcoming STTP on Mathematical Modeling in May 2013.
- Chaired a technical session of paper presentation in National conference on RTMMSCT at Manav Rachna International University, Faridabad.
- Chaired a technical session of paper presentation at UIAR, Gandhinagar

MEMBERSHIP OWNED

- LIFE MEMBER OF INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)
- LIFE MEMBER OF INDIAN MATHEMATICAL SOCIETY (IMS)
- LIFE MEMBER OF INDIAN SOCIETY OF THEORETICAL AND APPLIED MATHEMATICS (ISTAM).
- LIFE MEMBER OF INDIAN SCIENCE CONGRESS (ISC).
- LIFE MEMBER OF GUJARAT

Publication and Research

Journal Publications

- **Amit K Mishra**, Subir Das, Vijay K. Yadav, Finite-time synchronization of multi-scroll chaotic systems with sigmoid non-linearity and uncertain terms, **Chinese Journal of Physics** 75, 235-245 (2022)
- **Amit K. Mishra**, Rajneesh Kumar & Vijay K. Yadav, Stability Analysis and Controlling Chaos of Fractional-Order Three-Species Food Chain Model with Fear, **International Journal of Applied and Computational Mathematics** 7: 214 (2021).
- **Amit Mishra** (2018) "Effect of Magnetic Field on Heat Transfer in Newtonian Fluid under G-jitter" *Journal of Applied Research in Dynamical & Control System* Vol. 10, 11-Special Issue.
- **Amit Mishra & Mukesh kumar** (2015) "A weakly non linear stability analysis of heat transport in an anisotropic porous cavity under temperature modulation." *J. Applied Fluid Mechanics* Vol. 8, No. 4, pp. 1-11, 2015.
- **Amit Mishra & Mukesh kumar** (2014) "Chaotic convection in couple stress liquid saturated in porous cavity." *I.J. Energy & Technology* 6 (6) (2014), ISSN 2035-911X, pp.1-7.
- **Amit Mishra & Mukesh Kumar** (2013) "A weakly nonlinear stability analysis of heat transport in an anisotropic porous cavity under GJitter" *I.J.Math. Archives* Vol.4(11) ISSN 2229-5046, pp.1-8.

Books Publication

- Author of book *Polytechnic Mathematics Vol-I* (I edition and II edition) by Mahajan Publishing House, Gujarat.
- Author of book *Polytechnic Mathematics Vol-II* (I edition and II

GANIT MANDAL.

• LIFE MEMBERS OF GWALIOR
ACADEMY OF MATHEMATICAL
SCIENCES.

• LIFE MEMBER OF VIJANA
PARISHAD OF INDIA.

edition) by Mahajan Publishing House, Gujarat.

Awards/Session Chaired

- Selected and awarded summer research fellowship 2012 by Indian Science academy for the project title “Bernard Problem and stability analysis”.
- Chaired a technical session of paper presentation in National conference on RTMMSCT at Manav Rachna International University, Faridabad March29, 2014.
- Chaired a technical session of paper presentation at UIAR, Gandhinagar September 2016.
- Chaired a technical session of International conference for paper presentation at Ganpat university, Mehsana, December, 2017

Paper presented in National-International Conferences

- Best paper award in National conference at NIT Patna for paper presented with title “Chaotic convection in couple stress liquid saturated in porous cavity.”
- Presented a paper in National conference at Kadi sarva vidyalaya Ghandhinagar with title “A weakly nonlinear thermal instability analysis of convection in presence of constant magnetic field of a fluid layer under temperature / gravity modulation.”
- Presented a paper in International conference ICATES at GTU, Ahmedabad with title “A weakly nonlinear stability analysis of heat transport in an anisotropic porous cavity under G-Jitter”.
- Presented a paper in National conference on RTMMSCT at Manav Rachna International University, Faridabad with title “A weakly nonlinear stability analysis of heat transport in an anisotropic porous cavity under time periodic temperature

- BUDGET PLANNING, IMPLEMENTATION, UTILIZATION AND ADJUSTMENT
- ADMINISTRATIVE WORK RELATED TO HANDLING OF A TEAM OF 30 MEMBERS OF THE DEPARTMENT AS HEAD OF DEPARTMENT
- ADMINISTRATION OF STUDENT SECTION AND ADMISSIONS
- COORDINATOR OF EXAMINATION
- CHAIRMAN ISTE FACULTY CHAPTER
- LECTURER, SR. LECTURER, ASSISTANT PROFESSOR, SECTION HEAD AND HEAD

- PART OF BOARD OF STUDIES OF SCIENCE AND HUMANITIES

modulation”.

- Presented a paper in National conference on NCAM2014 at Parul Group of Institutes, Vadodara with title “A nonlinear stability analysis of heat transport in an anisotropic porous cavity under time periodic temperature modulation”.
- Presented a paper in International conference IOCBASD at Central University of Rajasthan, Ajmer with title “A study of heat transfer in a fluid layer under magneto-convection”.
- Presented a paper National conference at MS University, Baroda with title “Stability analysis of a fluid layer in presence of magnetic field”.
- Presented a paper in Inter-National conference at CU Shah University, Surendranagar with title “A study of convection of fluid saturated in cavity in presence of constant magnetic field under gravity modulation”.
- Presented a paper in Inter-National conference at CU Shah University, Surendranagar with title “A pedagogic between Engineering mathematics and Pure mathematics”.
- Presented a paper in a conference at UIAR, Gandhinagar with title “A review of Rayleigh Bernard convection”
- Presented a paper and chaired a technical session International conference of GAMS at Ganpat University, Mehsana

Invited talks & lectures delivered

- A lecture on Problem Solving Techniques in Numerical Analysis at Mathematics Department, MS university, Vadodara during November, 2017
- A Lecture on Introduction to Operation Research at VIER, Vadodara on 4 December, 2017.
- A Lecture on Convective instability problems at GEC, Gandhinagar on 30 May, 2016.

- A live Lecture on Solution of LPP using graphical method BISAGSANDHAN on 21 October, 2015.
- A lecture on Mathematical Methods for Engineers at GEC, Gandhinagar on 14 September 2015.
- A live Lecture on Trigonometry at BISAG-SANDHAN on 14 September, 2014.
- Delivered lecture in the workshop on Operation research at Saffrony Institute of Technology, Meshana on 12-13 March 2015.
- Delivered lecture in the workshop on Engineering Mathematics-A tool for Engineers at Nirma University on 1-4 June 2014.
- Delivered a lecture on How to set a question paper at IDS, Nirma University, Ahmedabad.
- Delivered an expert lecture in the workshop of Advance Mathematics- a bridge course at IDS, Nirma University

TRAINING AND OTHER KNOWLEDGE UPDATING PROGRAMS ATTENDED

- Title “Variational analysis” at IIT, Gandhinagar during March 2011. (1 week)
- Title “Forecasting in Business and Industry” at IIT, Kharagpur during 12-18 December 2005. (1week)
- Title “Logic and Application of Logic” at IIT, Kharagpur during 8-12, October 2007. (1 week)
- Title “Indo-Uk group meeting on Industrial problems” at M.S.University, Baroda during 20-24 March 2006. (1 week)
- Title “Mathematical methods in Engineering and Science” at IIT, Kanpur during 3-15 July 2006. (2 week)
- Title “Matrix Computation and Application” at IIT, Guwahati during 18-22 December 2006. (1week)
- Title “Harmonic Analysis and partial differential equation” at IIT, Madras during 1-12, January 2007. (2week)

- Title “Numerical and Optimization Techniques” at NIT, Allahabad during 31 October -4 November 2014. (1 week)
- Title “Research Orientation Programme” at ADR cell, Nirma University, Ahmedabad during 06-18 June 2016. (2 week)
- Title “Problem Solving Techniques in Mathematics” at Mathematics Department, MS university, Vadodara during 27 November-1 December 2017. (1 week)

Other Training Programmers/Conferences / workshop/ Seminars Attended

- Induction Training Program for newly recruited Faculty members – In-house. (4 Days)
- One day seminar on ‘Current trends in communication Engineering’ organized by EC Department at Institute of Diploma Studies, Nirma University Ahmedabad on 25th August, 2007.
- One day seminar on ‘Trends in Nano Science and Nano Technology’ organized by General Department at Institute of Diploma Studies, Nirma University, Ahmedabad on 18th August, 2007.
- One day international Symposium on “Harmonic Analysis, Wavelets and Partial Differential Equations” arranged by Mathematics Department, IIT, Madras on 8th January, 2007.

- Training on ‘Communication Skill Training’ at Nirma Institute of Diploma Studies, Ahmedabad (One day)
- 3 days National conference “Mathematical Meet, 2009, 20011 at Gujarat University, Ahmedabad.
- One day workshop on Knowledge Management, IM, Nirma University, Ahmedabad.
- One day lecture series on Research methodology 3 February 2011 at Nirma University, Ahmedabad.

- One day National Conference on Next Gen University at Nirma University, Ahmedabad.
- Two-day workshop on My Pledge –Self Leadership Programme, Nirma University, Ahmedabad.