



Multanimal Modi College

Modinagar-201204 (U.P.)

(Affiliated to Ch. Charan Singh University, Meerut)

(For Teaching Staff)

Title		Dr. Subodh Kumar Rana	Photograph 
Designation		Associate Professor	
Department		Mathematics	
Address(Campus/Department)		14, Professor's Lodge Modinagar	
(Residence)		Vill - P.O. - Daha Distt.- Baghpat	
Mobile		9412588613	
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EDUCATIONAL QUALIFICATIONS

Examination	Board/University	Subjects	Passing Year
High School	U.P. Board, Allahabad	Science Group	1991
Intermediate	U.P. Board, Allahabad	Science Group	1993
B.Sc.	C.C.S. University, Meerut	Maths, Statistics, Eco.	1996
M.Sc.	C.C.S. University, Meerut	Mathematics	1998
M.A.	C.C.S. University, Meerut	English	2000

M.Phil.	C.C.S. University, Meerut	Mathematics	2002
M.A.	C.C.S. University, Meerut	Economics.	2003
B.Ed.	C.C.S. University, Meerut	All Comp. Papers	2004
Ph.D.	C.C.S. University, Meerut	Mathematics	2008

CARRIER PROFILE

Organization/ Institution	Designation	Duration
V.V. (P G) College Shamli	Assistant Professor	April 01, 2005 to August 22, 2012
Multanimal Modi College Modinagar	Associate Professor	August 23, 2012 to till date

Teaching Experience :

- Under-Graduate Classes : 17 years (2005 to till date)
- Post- Graduate Classes : 17 years (2005 to till date)
- Total Teaching Experiences : 17 years

Memberships :

- Life Member of International Academy of Physical Sciences Allahabad.

Research Interests/Specialization:

- Fluid Mechanics / Stability Theory

Teaching Experience (Subjects/Courses Taught):

- Real Analysis
- Metric Spaces
- Topology
- Measure and Integration
- Complex Analysis
- Mathematical Statistics
- Functional Analysis

Orientation Courses / Refresher Courses/FDP:

- Attended and successfully completed Orientation Course from Aug.28, 2008 to Sep.24, 2008 at University of Allahabad under the Academic Staff College Programme of UGC.
- Attended and successfully completed Refresher Course in Mathematics from July 6, 2012 to August 04, 2012 at UGC-Academic Staff College Himachal Pradesh University Shimla-171005.
- Attended and successfully completed Refresher Course in Environmental Studies (M.D.) from December 12, 2013 to January 01, 2014 at UGC- Academic Staff College University of Allahabad, Allahabad.
- Attended and successfully completed one week Faculty Development Programme on Contemporary Trends in Research and Teaching Methodologies for Professional Development from 04th to 10th July 2016 at SRM University DELHI-NCR Campus, Modinagar, Ghaziabad, UP.
- Attended and successfully completed Refresher Course in Mathematical Sciences from 30 August, 2016 to 20 September, 2016 at UGC-HRDC Human Resource Development Centre, Centre for Professional Development in Higher Education, University of Delhi, Delhi.
- Attended and successfully completed UGC Sponsored 6th three-week Special Summer School organized by the UGC-HRDC, Jamia Millia Islamia, New Delhi from 29 May to 17 June 2017.

Workshop/ Symposium/ Training Programme attended :

- Participated in one day workshop on “Role of Mathematics in daily life and its application in Management and Technology” held on April 11, 2010 at Shamli Institute of Engineering and Technology, Shamli.
- Attended a Two days Training Programme for N.S.S. Programme Officer organized by National Service Scheme, C.C.S. University held on 14th and 15th December, 2010 at Ch. Charan Singh University Campus, Meerut.
- Participated in Training cum Awareness Workshop “ASSESSMENT AND ACCREDITATION : WAY FORWARD” Sponsored by-National Assessment and Accreditation Council, Bangalore held on December 15,2011 at Dr. Ram Manohar Lohia Law University, Lucknow organized by U.P. State Higher Education Council Lucknow.
- Attended a Two days Training Programme for N.S.S. Programme Officer organized by National Service Scheme, C.C.S. University held on 19th and 20th December, 2011 at Ch. Charan Singh University Campus, Meerut.
- Participated in the One Day Interactive Seminar on Role of CST UP in Promotion of Science and Technology and Facilitation of IPR Protection organized by Council of Science and Technology U.P. Lucknow in Collaboration with Intellectual Property Cell Chaudhary Charan Singh

University Meerut-250004(UP) India on MARCH 18, 2015.

- Attended one day workshop on April 08, 2015 on “How to access online resources using DELNET & UGC N- LIST Programmes” organized by IQAC, M. M. College Modinagar.
- Participated in the workshop on “Introduction to MATLAB” held and organized on 8 - 9 November 2019 by Department of Mathematics, Keral Vermaubharti College of Science, Swami Vivekanand Subharti university, Meerut, U.P., India.

Attended National/ International Conferences/ Seminar

- Participated in the 8th annual Conference of the International Academy of Physical Sciences (CONIAPS-VIII, 2005) held at C.C.S. University Meerut Dec 29-31, 2005.
- Participated the National Conference on “Advances in Mathematical Sciences and Their Applications” on March 28-30, 2014 organized by Department of Mathematics, Hindu Girls College, Sonapat and The Global Society of Mathematical and Allied Sciences, sponsored by Director General Higher Education, Haryana.

Contribution/ Achievement/ Honors/ Award and Paper Presentation in Different Academic Activities :

- Participated and presented a paper in a National Seminar on “Human Rights Education in Present Era : Needs and Importance” organized by the Department of Education on April 10,2011 at Ambrish Sharma College of Education and Technology Hapur Road, Meerut
- Participated and acted as a Session coordinator in the International conference on “Recent Trends in Interdisciplinary Sciences : Opportunities and Challenges” on Feb 28- March 01,2014 organized by Faculty of Science, Multanimal Modi College, Modinagar-201204 (UP), India.
- Certificate of Review Asian Resonance Multi-Disciplinary International Research Journal for appreciate valuable co-operation vol.03, issue 04, month October year 2014.
- Participated and presented a paper entitled “Common Errors in Writing Research Papers” in a National Conference organized by Social Research Foundation Kanpur on April 09, 2017.
- Participated, Chaired and Reporter the session during the International conference (iCiAsT-2016) during 01-05 February 2016 at Faculty of Science, Kasetsart University Bangkok 10900 Thailand.

- Certificate of Excellence-The Executive Council of SARC Confers its Co-Inventor Award-2015 for outstanding achievement in the field of Mathematics on the occasion of International Conference on Innovative Approaches in Applied Sciences and Technologies (iCiAsT-2016) at Faculty of Science, Kasetsart University Bangkok 10900 Thailand.
- Participated and Chaired the session in 20th Annual Conference of the International Academy of Physical Sciences on Recent Advances in Physical Sciences And Future Challenges organized by Faculty of science (Department of Mathematics, Physics and chemistry), Osmania University, Hyderabad- 500007 during July 14-16, 2017.
- Certificate of Excellence-The Executive Council of SARC Confers its Excellence in Mathematical Research Award-2018 for outstanding achievement in the field of Stability Theory on the occasion of International Conference on Innovative Approaches in Applied Sciences and Technologies (iCiAsT- 2018) during 13-17 June 2018 at Nong Lam University, Ho Chi Minh City - Vietnam.
- Participated and acted as a Co-chairperson in the International conference on Innovative Approaches in Applied Sciences and Technologies (iCiAsT- 2018) during 13-17 June 2018 at Nong Lam University, Ho Chi Minh City - Vietnam.
- Participated and acted as a Judge in Poster Session in the International conference on Innovative Approaches in Applied Sciences and Technologies (iCiAsT-2018) during 13-17 June 2018 at Nong Lam University, Ho Chi Minh City - Vietnam.
- Excellence in Teaching Award for outstanding contribution in the field of Mathematics on the occasion of International Conference on Innovative and Current Advances Allied Sciences (ICAAAS-2020) during 27 January- 01 February 2020 held at Bangkok 10400 Thailand.
- Participated and acted as a Co-chairperson in the Technical Session III in the International Conference on Innovative and Current Advances Allied Sciences (ICAAAS-2020) during 27 January- 01 February 2020 held at Bangkok 10400 Thailand.
- Participated and acted as a member of organizing committee in the National Seminar on "Bioinformatics: Concepts, Applications and Skill Development" held on 08 February, 2020 organized by Multanial Modi College Modinagar, Ghaziabad, U.P. 201204.

Publications Last FIVE (05) Year Publications, in Indexed / Peer Reviewed Journals:

- "Soret-Dufor instability of an incompressible viscous fluid confined in a porous medium in the presence of magnetic field" *J.Rajasthan Acad. Phy. Sci., Vol.8, No. 1, March 2009, pp.115-126.*
- "Study of Rivlin-Ericksen Elastico-Viscous fluid heated and saluted from below in the presence of suspended particles : Effect of compressibility" *Reflections des ERA-JMS, Vol.4 Issue 3, August 2009,*

255-270.

- “Thermosolutal instability of an incompressible viscous fluid confined in an anisotropic porous medium in the presence of magnetic field” *J.Rajasthan Acad. Phy. Sci., Vol.8, No. 4, December 2009,pp.431-440.*
- “On the Shear Flow instability in the Beta plane” *Journal of International Academy of Physical Sciences Vol.13 No.1(2009) pp.63-72*
- “Some useful results on thermal stability analysis of an incompressible viscous fluid in the presence of magnetic field confined in an anisotropic porous medium” *Journal of Asian Resonance vol.2, No.3, July 2013, pp. 44-48.*
- “Thermal instability analysis of compressible fluid layer in a porous medium: Effect of weak magnetic field and low thermal conductivity” *Journal of Rajasthan Academy of Physical sciences, Vol.12, No.3, September 2013, pp. 235-248.*
- “Thermal instability of Hydro magnetic Couple-Stress Fluid: Effect of Suspended Particles” *International Journal Remarking vol. II, Issue-XI, April 2016, pp. 17-20.*
- “The study of particular case of thermal stability analysis of an incompressible viscous fluid in the presence of magnetic field confined in an anisotropic porous medium” *Journal of Asian Resonance vol. V, Issue-IV, October 2016, pp. 28-33.*
- “Results on thermal stability analysis for equal thermal diffusivity and solute diffusivity of an incompressible viscous fluid” *International Research Journal Periodic Research vol.5, Issue-3, February 2017, pp. 15-19.*
- “Thermal instability of an incompressible viscous fluid in an anisotropic porous medium with effect of magnetic field” *International Journal of Creative Research Thoughts (IJCRT) vol. 5, Issue-2, May 2017, pp. 36-41.*
- “Effect of weak magnetic field and low thermal conductivity on thermal instability in a porous medium” *International Journal of Creative Research Thoughts (IJCRT) vol.5, Issue-4, December 2017, pp. 29-35.*
- “Results on thermal instability of an incompressible viscous fluid in a porous medium” *International Journal of Research and Analytical Reviews (IJRAR) vol. 5, Issue-4, December 2018, pp. 303-308.*
- “Effect of Soret-Dufour in an incompressible, viscous fluid in the presence of magnetic field” *International Journal of Research and Analytical Reviews (IJRAR) vol.7, Issue-2, April 2020, pp. 453-459.*

- “Extension of Linear Stability analysis of inviscid parallel shear flows in the beta plane” *International Journal of Research and Analytical Reviews (IJRAR) vol.8, Issue-1, March 2021, pp. 517-521.*

Conference Presentations : National / International / Seminar/ Symposium :

- *Participated and presented a paper entitled “ Hydro magnetic Thermal instability of Couple-Stress fluid in presence of suspended particles” in 2nd National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences held at D.N. (PG) College Meerut from Jan 30-31, 2010.*
- *Participated and presented a paper entitled “The Study of thermal stability analysis of an incompressible viscous fluid in the presence of magnetic field confined in an anisotropic porous medium” in the 11th Annual Conference of the International Academy of Physical Sciences held at University of Allahabad from Feb 20-22, 2010.*
- *Participated and presented a paper entitled “Effect of Beta plane in the shear flow instability” in 3rd National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences held on 5-6 February, 2011 at D.N.(PG) College Meerut.*
- *Participated and presented a paper entitled “Thermal instability of compressible fluid layer in a porous medium : Effect of weak magnetic field and low thermal conductivity” in the 13th Annual Conference of the International Academy of Physical Sciences held at University of Petroleum and Energy Studies, Dehradun (India) on June, 14-16, 2011.*
- *Participated and presented a paper entitled “Hydro magnetic thermal instability of couple- stress fluid in the presence of suspended particles” in National Conference on Role of Mathematics and its Application in Development of Science and Technology on March 21-22,2013 organized by Department of Mathematics, Govt. (PG) College, Lansdowne (Jaiharikhal) Pauri Garhwal, Uttarakhand.*
- *Participated and presented a paper entitled “Analytical study of stability analysis through porous medium” in UGC Sponsored Swami Shukdevanand 6th International Seminar on “Economic development with Devaluation of Non-economic values : Problems and Remedies” organized by Faculty of Commerce and Research studies Swami shukdevanand PG College, Shahjanpur on March 02-03, 2014.*
- *Participated and presented a paper entitled “Stability of linear fluid flow through porous medium” in Swami Shukdevanand 7th International Seminar organized by Faculty of Commerce and Research studies Swami shukdevanand PG College, Shahjanpur in Collaboration U.P. Chapter, Indian Commerce Association on February 26-27, 2015.*

- *Participated and presented a paper entitled "Some results on a thermal stability analysis confined in an anisotropic porous medium of an incompressible viscous fluid in the presence of magnetic field" in the 18th Annual Conference of the International Academy of Physical Sciences organized by Faculty of Science, University of Allahabad, Allahabad- 211002, India in collaboration with United Group of Institutions, Allahabad from Dec 22-24, 2015.*
- *Participated and presented a paper entitled "Stability of Couple- stress fluid heated from below in the presence of rotation and magnetic field with effect of suspended particles" in Swami Shukdevanand 8th International Seminar organized by Faculty of Commerce and Research studies Swami shukdevanand PG College, Shahjanpur on January 30-31, 2016.*
- *Participated and presented a paper entitled "Thermal instability analysis of an incompressible viscous fluid confined in an anisotropic porous medium with magnetic field" in an International Conference on Innovative Approaches in Applied Sciences and Technologies jointly-Organised by Faculty of Science, Kasetsart University Bangkok 10900 Thailand and Scientific Educational Research Society Meerut 250004, India on 01-05 February 2016.*
- *Participated and presented a paper entitled "Stability analysis of an incompressible viscous fluid confined in an anisotropic porous medium in the presence of magnetic field" in the 19th Annual Conference of the International Academy of Physical Sciences organized by Department of Mathematics and Computer Science, D S B Campus, Kumaun University Nainital during October 17-19, 2016.*
- *Participated and presented a paper entitled "Thermosolutal instability of an incompressible viscous fluid confined in a porous medium in the presence of magnetic field" in a National Seminar on Recent Advances In Mathematics and its Computational Aspects, sponsored by University Grants commission, New Delhi organized by Department of Mathematics Shaheed Mangal Pandey Govt. Girls (PG) College Madhavpuram, Meerut during November 11-12, 2016.*
- *Participated and presented a paper entitled "Study and different results on the shear flow instability confined in the Beta plane" in a National Conference on Current Trends in Applied Sciences, sponsored by Department of Higher Education, Government of Uttar Pradesh jointly organized by I.Q.A.C. & Faculty of Science J.V. Jain College Saharanpur-247001 during March 18-19, 2017.*
- *Participated and presented a paper entitled "Study of linear stability analysis of an incompressible viscous flow in an anisotropic porous medium" in 20th Annual Conference of the International Academy of Physical Sciences organized by faculty of science (Department of Mathematics, Physics and Chemistry), Osmania University, Hyderabad- 500007 during July 14-16, 2017.*
- *Participated and presented a paper entitled "Effect of weak magnetic in the study of Rivlin- Ericksen Elastico-viscous fluid heated from below in suspended particles " in Swami Shukdevanand 9th International Seminar organized by Faculty of Commerce and Research studies Swami shukdevanand PG College, Shahjanpur on December 16-17, 2017.*
- *Participated and presented a paper entitled "Thermosolutal instability of an incompressible viscous*

fluid permeated with magnetic field in an anisotropic porous medium” in an International Conference on Innovative Approaches in Applied Sciences and Technologies jointly-Organized by Nong Lam University Ho Chi Minh City, Vietnam and Scientific Educational Research Society Meerut 250004, India on June 13-17, 2018.

- *Participated and presented (Poster presentation) a paper entitled “A Numerical Study of Soret-Dufour thermosolutal instability in an Visco-Elastic fluid in the presence of porous medium” in an International Conference on Innovative Approaches in Applied Sciences and Technologies jointly-Organised by Nong Lam University Ho Chi Minh City, Vietnam and Scientific Educational Research Society Meerut 250004, India on June 13-17, 2018.*
- *Participated and presented a paper entitled “Thermal stability analysis of Hydro magnetic couple-stress fluid in the presence of magnetic field” in an 24th Annual Conference of the International Academy of Physical Sciences organized by Faculty of Science Chaudhary Charan Singh University, Meerut-250004 (Uttar Pradesh), India on August 09-11, 2019.*
- *Participated and presented a paper entitled “Effect of linear stability analysis in an anisotropic porous medium” in an International Conference on Innovative and Current Advances in Allied Sciences (ICAAAS-2020) jointly organized by Society for Scientific Development in Agriculture and Technology Meerut (UP) India and Astha foundation Meerut (UP) India during 27 January- 01 February 2020 held at Bangkok 10400 Thailand.*
- *Participated and presented a paper entitled “Variation of Temporal Growth Rate of Shear Flow Instability Regarding in the Beta Plane” in 5th International Conference on Innovative Approaches in Applied Sciences and Technologies jointly-Organized by Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow (U.P.) India and Scientific Educational Research Society Meerut 250004(U.P.) India on 03-05 December 2021.*

(Signature of Faculty Member)

(Signature & Stamp of Teacher In-Charge/Principal)

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