

FACULTY PROFILE

1. Name : Prof. (Dr.) G.S. Seth
2. Designation : Professor
3. Date of Birth : 01/07/1954
4. Qualification : M.Sc., D.I.I.T., Ph.D.
5. Area of Research : Numerical Methods, Fluid Dynamics, Magnetohydrodynamics and Heat Transfer
6. No. of Students supervised for Ph.D. degree : 07
No. of Students supervised for M.Phil. degree: 11

7. No. of Research Papers Published in National and International Journals:

- (i) International : 29
- (ii) National : 09
- (iii) Proceedings : 18

8. Research and Teaching Experience:

- (i) Research Experience: 33 Years
- (ii) Teaching Experience: 30 Years

9. Courses taught at under graduate and post graduate levels:

- (i) B.Tech.: Differential and Integral Calculus, Differential Equations, Theory of Equations, Laplace and Fourier Transforms, Partial Differential Equations, Vector Calculus & Fourier Series, Special Functions, Higher Trigonometry and Algebra, Numerical Methods and Advanced Numerical Methods.
- (ii) M.Tech.: Advance Numerical Methods.
- (iii) M.Sc. (M & C): Numerical Solutions of ODE & PDE, Ordinary and Partial Differential Equations, Fluid Dynamics, Magnetohydrodynamics and Perturbation Methods.
- (iv) M.Phil. (Appl. Maths.): Fluid Dynamics, Magnetohydrodynamics and Perturbation Methods.

10. New Specialized Courses Developed:

- (i) Advance Numerical Methods
- (ii) Fluid Dynamics
- (iii) Magnetohydrodynamics
- (iv) Heat & Mass Transfer
- (v) Perturbation Methods

11. External Cash Flow (R & D), (Consultancy, Testing, EDP etc.) From Public and Private Funding Agencies:

Principal Investigator of U.G.C. Project entitled "A Theoretical Study of the Problems of Magnetohydrodynamic Flow of a Viscous Incompressible Electrically Conducting Fluid in a Rotating Medium".

Project Amount: Rs. 6,64,300.00.

12. Any Other Information:

- (i) Visiting Assistant Professor of Applied Mathematics at Faculty of Engineering, University of Aden, Republic of Yemen for the period Sept. 1991 to Aug. 1993.
- (ii) Member, editorial board of an international journal, namely, Applied Mathematics.
- (iii) Reviewer of the following Journals of repute:

International:

Sl. No.	Name of the Journals
(i)	Journal of Applied Fluid Mechanics
(ii)	International Journal of Physical Sciences
(iii)	International Journal of Thermal Sciences
(iv)	International Journal of Engineering Sciences & Technology
(v)	International Journal of Energy & Technology
(vi)	Journal of Engineering, Technology and Research
(vii)	Chemical Engineering Communication
(viii)	International Journal of Applied Mechanics
(ix)	Journal of International Academy of Physical Sciences
(x)	Computers and Mathematics with Applications

National:

Sl. No.	Name of the Journals
(i)	Journal of Indian Academy of Mathematics
(ii)	Bulletin Calcutta Mathematical Society

- (iv) Life Member of the Following Learned Society:

Sl. No.	Name of the Learned Society
(i)	International Academy of Physical Sciences
(ii)	Indian Society of Theoretical and Applied Mechanics
(iii)	Indian Science Congress Association
(iv)	Mathematical Society, BHU, Varanasi
(v)	Indian Academy of Mathematics
(vi)	Society of Applied Mathematics

- (v) Chairman of Health Centre Committee, Indian School of Mines, Dhanbad.
- (vi) Member of Central Purchase Committee, Indian School of Mines, Dhanbad.
- (vii) Member of panel of judges to judge the performance of Young Scientists for Young Scientist Award of International Academy of Physical Sciences for the year 2011.

- (viii) Delivered an invited talk at 1st National Conference on Mathematical Sciences (ICAMS 2011) organized by SMIT Sikkim & Von Karman Society, Jalpaiguri at SMIT, Majitar, Sikkim during March 11-13, 2011.
- (ix) Member of Board of Courses and Studies for B.Tech./M.Tech. Programmes in Fuel and Mineral Engineering, Mining Engineering and Electronics and Communication Engineering.
- (x) Member of Editorial Board of Proc. Math. Soc. BHU, Varanasi in the years 1994 and 1995.
- (xi) Member of Editorial Board of the book entitled "Mathematics and Statistics in Engineering and Technology", (Edited by Prof. A. Chattopadhyay), Narosa Publishing House, New Delhi (1999).
- (xii) Member of the Editorial Board of the book entitled "Advances in Mathematical, Statistical and Computational Methods in Science and Technology", (Edited by Prof. S. Dey), Pragati Prakashan, Meerut (2003).
- (xiii) Joint Secretary of the Organizing Committee and member of the Executive Committee of the National Seminar on "Recent Trends and Advances of Mathematics and Statistics in Engineering and Technology", Nov. 29-30, 1997.
- (xiv) Joint Secretary of the Executive and Organizing Committees of the National Seminar on "Advances of Mathematical, Statistical and Computational Methods in Science and Technology", Nov. 29-30, 2001.
- (xv) Joint Secretary of the Executive and Organizing Committees of the "Seminar on Advances in Theoretical Seismology", Oct. 29-30, 2003.
- (xvi) Secretary of the Executive and Organizing Committees of the SAP (UGC) Seminar on "Recent Advances in Theoretical and Applied Seismology", March 3-4, 2005.
- (xvii) Chaired a session of SAP (UGC) Seminar on "Recent Advances in Theoretical and Applied Seismology", March 3-4, 2005.
- (xviii) Secretary of the Executive and Organizing Committees of the National Seminar on "Recent Advances in Theoretical and Applied Seismology", March 20-21, 2006.
- (xix) Chaired a session of the National Seminar on "Recent Advances in Theoretical and Applied Seismology", March 20-21, 2006.
- (xx) Secretary of the Executive and Organizing Committees of the National Seminar on "Recent Advances in Theoretical and Applied Seismology", March 21-22, 2007.
- (xxi) Chaired a session of the National Seminar on "Recent Advances in Theoretical and Applied Seismology", March 21-22, 2007.
- (xxii) Member of the Executive and organizing Committees of the National Seminar on "Recent Advances in Theoretical and Applied Seismology", March 27-28, 2009.
- (xxiii) Chaired a session of the National Seminar on "Recent Advances in Theoretical and Applied Seismology", March 27-28, 2009.
- (xxiv) Introduced three Elective Papers, namely, (i) Fluid Dynamics, (ii) Magnetohydrodynamics and (iii) Perturbation Methods in M.Phil. (Applied Mathematics) course.
- (xxv) Introduced three Elective Papers, namely, (i) Magnetohydrodynamics (ii) Heat and Mass Transfer and (iii) Perturbation Methods in M.Sc. (Mathematics & Computing) Course.
- (xxvi) Member of Moderation Boards of M.Tech. Programme on Mine Planning and Development.

- (xxvii) Member of the Course Revision Committee of B.Tech. and M.Sc. Tech. Courses.
- (xxviii) Member of the Board of Courses and Studies of 2 years M.Sc. (Mathematics & Computing), 5 Years Integrated M.Sc. (Mathematics & Computing), M.Phil. (Applied Mathematics), B.Tech. in Mineral Engineering, Mining Engineering and Electronics Engineering and M.Tech. in Fuel Engineering, Mineral Engineering, Electronics Engineering and Mining Engineering
- (xxix) Coordinator of M.Phil. (Applied Mathematics) Course during the period 2005-2010.
- (xxx) Chairman of Course Revision Committee for M.Phil. (Applied Mathematics) Course whose BOCS was held on Jan 20, 2006.
- (xxxi) Member of Selection Committee for M.Phil. (Applied Mathematics) Course.
- (xxxii) Chairman of the Course Revision Committee for capsule courses of B.Tech. program.
- (xxxiii) Member, moderation board of Department of Applied Mathematics for under graduate program.