




## Shivaji College Faculty Details Proforma

Title		First Name		Last Name		Photograph
	<b>Dr.</b>		<b>Neetu</b>		<b>Rani</b>	
<b>Designation</b>		<b>Assistant Professor</b>				
<b>Address</b>		<b>Department of Mathematics, Shivaji College, Raja Garden, Delhi-110027</b>				
<b>Office Phone No.</b>						
<b>Residence</b>		-----				
<b>Mobile</b>		-----				
<b>Email</b>		<b>Neetu.october@gmail.com</b>				
<b>Web-Page</b>						
<b>Educational Qualifications</b>		<b>M.Sc., M.Phil., Ph.D. (Mathematics)</b>				
<b>Degree</b>		<b>University/Institute</b>			<b>Year</b>	
<b>Ph.D.</b>		<b>Kurukshetra University</b>			<b>2009</b>	
<b>M.Phil./M.Tech.</b>		<b>Kurukshetra University</b>			<b>1998</b>	
<b>PG</b>		<b>Kurukshetra University</b>			<b>1997</b>	
<b>UG</b>		<b>Kurukshetra University</b>			<b>1995</b>	
<b>Any Other Qualification</b>		<b>Advanced diploma in French</b>			<b>2009</b>	
<b>Career Profile</b>						
<b>Teaching Experience</b>		<b>: 20 Years</b>				
Shivaji College, University of Delhi; Keshav Mahavidyalaya, University of Delhi; Hansraj College, University of Delhi; University Inst. of Engg. & Tech., Kurukshetra University ;						

Shri Krishan Institute of Engg. & Tech., Kurukshetra;  
Arya Girls College, Shahabad, Kurukshetra University;  
University College, Kurukshetra University .

### **Administrative Assignments**

- Deputy Superintendent of Examinations, 2018, Shivaji College
- Member of NSS, 2017-18, Shivaji College
- Member of Sports committee, 2017-ctd., Shivaji College
- Convenor of Admission for APS, 2015-16, Shivaji College
- Member of Canteen committee, 2015-17, Shivaji College
- Member of Purchase committee, 2015-17, Shivaji College
- Member of Cultural committee, 2014-15, Shivaji College
- Member of Time-table committee, 2014-16, Shivaji College

### **Areas of Interest/Specialisation**

Seismology;  
Applied Mathematics;  
Elasticity.

### **Subjects Taught**

Algebra, Analysis, Differential Equations, Numerical Analysis, Calculus, Linear Algebra, Multivariate Calculus, Number Theory, Complex Analysis, Laplace transforms, Probability Theory.

### **Innovation Project/Research Projects (Major Grants/Research Collaboration)**

### **Publications Profile (Research Papers/Books)**

- Neetu Rani; July-December 2017; Migration of Agricultural Population to Non-Agricultural Sector: A Mathematical Study; Indian Journal of Industrial and Applied Mathematics; Indian Society of Industrial and Applied Mathematics; 8(2) pp 201-211
- Neetu Garg; June 2009; Existence of longitudinal waves in pre-stressed anisotropic elastic medium; J Earth Sys Sc; Indian Academy of Sciences, Bangalore; 118 (6) pp 677-687
- Neetu Garg; Jan 2007; Effect of initial stress on harmonic plane homogeneous waves in viscoelastic anisotropic media; J of Sound and Vibration; Elsevier-Sc Direct; 303 pp 515-

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- M D Sharma & Neetu Garg; Apr 2006; Wave velocities in a pre-stressed anisotropic elastic medium; J Earth Sys Sc; Indian Academy of Sciences, Bangalore; 115 (2) pp 257-265

**Conference/Seminar/Faculty Development Programme/Workshop**

- Neetu Rani ; May 01-02, 2017 ; Presented a Research Paper entitled “Mathematical description of some facts related to agricultural sector”; Research Scholar Seminar & Annual Conference of the Society of Mathematical Sciences (Delhi) organized by Department of Mathematics, University of Delhi, Delhi.
- Neetu Rani ; January 30-31, 2016 ; Presented a Research Paper entitled “A Mathematical Study of Banking Sectors in India”; RAOTA 2016-International Conference on Recent Advances in Optimization Theory and Applications organized by Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, Delhi.
- Neetu Rani ; Dec 17-22, 2012 ; Attended ‘The legacy of Srinivasa Ramanujan’ International Conference organized by the University of Delhi held at Department of Mathematics, University of Delhi.
- Neetu Rani; Dec 18-20, 2008; Effect of initial stress on SH-waves; Pre-ICM International Convention on Mathematical Sciences held at Department of Mathematics, University of Delhi.
- Neetu Rani; Dec 19-22, 2007; Influence of Initial Stress on Wave Polarizations in a Pre-stressed Anisotropic Elastic Medium; International Conference on advances in Mathematics: Historical Developments and Engineering App held at G B Pant University of Agriculture and Technology-Pantnagar; p 158.
- Neetu Rani; Dec 8-9, 2007; Elastic waves in an initially-stressed anisotropic medium; 9th National Conference on information tech and operational research app held at Graduate school of business & administration-Greater Noida; p 28.
- Neetu Rani; Dec 20-22, 2006; Effect of initial stress on harmonic plane homogeneous waves in viscoelastic anisotropic media; National Conference on History of Mathematics and Recent Developments held at Department of Mathematics, Maharishi Dayanand University, Rohtak.
- Worked as a Co-convener in organizing a Seminar on "Mathematics: Historic and Current Perspectives" in Shivaji College to celebrate Golden Jubilee year of Department of Mathematics, Shivaji College, University of Delhi held on November 10, 2017.
- Worked as a Resource Person and member of organizing committee in the 2<sup>nd</sup> INSPIRE Internship Science Camp 2016 (Innovation in Science Pursuit for Inspired Research), organized by Shivaji College, University of Delhi held from December 14-18, 2016.
- Worked as a Resource Person and member of organizing committee in the INSPIRE Science Camp 2015 (Innovation in Science Pursuit for Inspired Research), organized by Shivaji College, University of Delhi held from December 19-23, 2015.

- Worked as a Convener in organizing a One Day Workshop for Mathematics (Hons.) students in Shivaji College, University of Delhi held on October 27, 2015.
- Participated in Faculty Development Programme on Statistical Computing Software 'R' organized by the Department of Mathematics, Keshav Mahavidyalaya, University of Delhi, held on 24.03.2017.
- Attended a workshop for teachers on "Exploring Maths for Digital India" organized by Rajyoga Education & Research Foundation at Brahmakumaris, Gyan-Vigya Bhawan, Delhi, held on 22.11.2017.
- Attended Three weeks Refresher Course in Mathematical Sciences, UGC-sponsored and organized by Centre for Professional Development in Higher Education, University of Delhi, held from 30.08.2016 to 20.09.2016.
- Attended One Day Workshop on "Computational Optimization" organized by Department of Mathematics, Sri Venkateswara College, University of Delhi held on February 05, 2016.
- Organized One Day Workshop for Mathematics (Hons.) Students of Shivaji College, University of Delhi, on 27<sup>th</sup> October, 2015
- Attended One month Orientation Course, UGC-sponsored and organized by Centre for Professional Development in Higher Education, University of Delhi, held from 8.06.2015 to 4.07.2015
- Attended Three days training course on MATLAB Fundamentals, organized by MathWorks Training Services, held at Computer Center, University of Delhi, from 7.5.2015 to 9.5.2015
- Attended Three weeks Refresher Course in Mathematical Sciences, UGC-sponsored and organized by Centre for Professional Development in Higher Education, University of Delhi, held from 24.11.2014 to 13.12.2014
- Attended Two days Workshop on "Theory of Equations" organized by Department of Mathematics, Shivaji College, University of Delhi, Delhi, held from 16.10.14 to 17.10.14.
- Attended Three days Workshop on "Foundation Course : Building Mathematical Ability" organized by Centre for Professional Development in Higher Education, University of Delhi, Delhi, held from 24.06.13 to 26.06.13.
- Attended Two weeks Workshop in "Instructional School for Teachers in Group Theory" organized by Department of Mathematics, University of Delhi, Delhi, held from 03.06.13 to 15.06.13.
- Attended Three days Workshop on "Foundation Course : Information Technology" organized by Centre for Professional Development in Higher Education, University of Delhi, Delhi, held from 12.06.13 to 14.06.13.
- Attended One day Workshop on "Mathematica" organized by the Department of Mathematics, Acharya Narendra Dev College, University of Delhi, Delhi, held on 1.03.13.
- Attended One week National Workshop on "Differential Equations, Computing and Modeling" conducted at the Department of Mathematics, University of Delhi, Delhi, held from 20.12.10 to 24.12.10.

- Attended One week Quality Improvement Programme on “Applied Numerical Methods” held from 7.7.08 to 11.7.08 in the Department of Technology, Roorkee (Uttarakhand).
- Attended One month summer school organized by University Grant Commission especially for science teachers at Academic Staff College, Kurukshetra University to encourage research in science fields during June, 2008.
- Organized and attended one day workshop on “Patent Awareness” at University Institute of Engineering & Technology, Kurukshetra University, and sponsored by Patent Information Centre, HSCST, DST, Hisar, Haryana and TIFAC, DST, Govt. of India, New Delhi on April 05, 2008.
- Attended One week short term course on “Digital Signal Processing Using MATLAB” conducted by Electronics and Communication Engineering Department from 23.07.07 to 27.07.07 at National Institute of Technical Teachers’ Training and Research, Chandigarh.
- Attended Two weeks term course on “AICTE Sponsored Induction Training Programme for Faculty of Engineering Colleges” conducted by Edu. & Edcl. Mgt. Department from 1.03.07 to 12.03.07 at U.I.E.T., Kurukshetra University, Kurukshetra.
- Attended Three days Short Term Training Programme on “Quality Assurance in Technical Education” conducted by Electrical Engineering Department from 27.05.04 to 29.05.04 at S.K.I.E.T., Kurukshetra.
- Attended E-Orientation course conducted by Applied Physics Department, National Institute of Technology, Kurukshetra in September, 2003.

#### **Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)**

#### **Awards and Distinctions**

##### **Academic Awards/Medals and Distinctions**

- Merit position at state level in matric
- College topper in 12<sup>th</sup> and B.Sc.
- Gold medalist in M.Sc.
- University topper in M.Phil.
- Gold medalist in diploma in French
- Gold medalist in advanced diploma in French

### Honors and Awards

- University Post-graduate Scholarship  
Sep 97 to Sep 98
- University Post-graduate Scholarship  
Sep 95 to Sep 97
- Merit Scholarship  
Jun 90 to May 95
- Many Awards and Prizes won in Extra-curricular Activities (Debates, Declamation, Quizzes, Sports, Cultural Competitions)
- Merit certificate for best NSS (National Service Scheme) Volunteer at College Level in 1995

### Memberships

- Life Member of 'Indian Mathematical Society' with Unique Membership Number 'L/2015/107'

### Other Academic Activities

- Worked as a Co-convenor in organizing a Seminar on "Mathematics: Historic and Current Perspectives" in Shivaji College to celebrate Golden Jubilee year of Department of Mathematics, Shivaji College, University of Delhi held on November 10, 2017.
- Worked as a Resource Person and member of organizing committee in the 2<sup>nd</sup> INSPIRE Internship Science Camp 2016 (Innovation in Science Pursuit for Inspired Research), organized by Shivaji College, University of Delhi held from December 14-18, 2016.
- Worked as a Resource Person and member of organizing committee in the INSPIRE Science Camp 2015 (Innovation in Science Pursuit for Inspired Research), organized by Shivaji College, University of Delhi held from December 19-23, 2015.
- Worked as a Convener in organizing a One Day Workshop for Mathematics (Hons.) students in Shivaji College, University of Delhi held on October 27, 2015.
- Organized One Day Workshop for Mathematics (Hons.) Students of Shivaji College, University of Delhi, on 27<sup>th</sup> October, 2015

### Cultural/Extracurricular Activities

- Attended the Inter-College 10 days N.S.S. Camp held at I.G.N. College, Ladwa from June 18, 1993 to June 27, 1993 under the special camping programme sponsored by the Department of Sports and Youth Affairs, Govt. of India and organized by Indira Gandhi National College, Ladwa.
- Attended Kurukshetra University Inter-College 10 days N.S.S. Sadbhawana Camp held at Arya Kanya Maha Vidiyalaya, Shahabad (M), Kurukshetra from May 20, 1994 to May 29, 1994.
- Attended 10 days N.S.S Camp held at "Lathi Dhanora" organized by Indira Gandhi

National College, Ladwa from December 25, 1994 to January 3, 1995.

- Certificate of Merit awarded by Kurukshetra University under National Service Scheme for outstanding services rendered during the academic year 1994-1995.
- Donated blood on January 28, 1994 in Block Congress Committee, Ladwa (Kurukshetra) blood donation camp.
- Winner of District Kabaddi Championship, Kurukshetra (1985-1986) under the Authority of Amateur Kabaddi Federation of India & Haryana Kabaddi Association held at Ladwa from January 10, 1986 to January 12, 1986.
- Received certificate of merit for securing third position in the Poem Recitation event in the Block Kurukshetra Youth Festival on September 8, 1994.
- Received merit certificate on the account of President of Science Association during 1994-1995.
- Received merit certificate for participating in the event Inter-college Declamation Contest held on February 18, 1993 and standing 2<sup>nd</sup> position organized by Commerce association, Indira Gandhi National College, Ladwa.
- Received certificate on account of Second prize in Paper Reading Contest for the year 1995-1996 organized by Zoological Association, Kurukshetra University, Kurukshetra.
- Received merit certificate on account of 2<sup>nd</sup> position in cultural competition held on February 25, 1995 organized by Science association, Indira Gandhi National College, Ladwa.
- Received merit certificate for participating in the event Inter-college Quiz Contest held on February 2, 1993 and standing 2<sup>nd</sup> organized by Commerce association, Indira Gandhi National College, Ladwa.
- Received certificate of appreciation for co-ordinating the fest “EXCELSIOR-08, National level Techno-Cultural festival”, held at University Institute of Engineering & Technology, Kurukshetra University, Kurukshetra on 3<sup>rd</sup> – 5<sup>th</sup> April, 2008.

**Neetu Rani**  
**Signature of Faculty Member**